



Safety Data Sheet

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SECTION 1: Identification

1.1. Product identifier

ANTI-STATIC SPRAY

Product Identification Numbers

DE-9999-6715-6

1.2. Recommended use and restrictions on use

Recommended use

Neutralization of residual static charge on surfaces.

1.3. Supplier's details

MANUFACTURER:	3M
DIVISION:	3M Germany Electrical Markets Division
ADDRESS:	3M Center, St. Paul, MN 55144-1000, USA
Telephone:	1-888-3M HELPS (1-888-364-3577)

1.4. Emergency telephone number

1-800-364-3577 or (651) 737-6501 (24 hours)

SECTION 2: Hazard identification

2.1. Hazard classification

Flammable Aerosol: Category 1.

Serious Eye Damage/Irritation: Category 2A.

Skin Corrosion/Irritation: Category 2.

Simple Asphyxiant.

Specific Target Organ Toxicity (single exposure): Category 1.

Specific Target Organ Toxicity (central nervous system): Category 3.

2.2. Label elements

Signal word

Danger

Symbols

Flame | Exclamation mark | Health Hazard |

Pictograms



Hazard Statements

Extremely flammable aerosol.

Causes serious eye irritation.

Causes skin irritation.

May cause drowsiness or dizziness.

May displace oxygen and cause rapid suffocation.

Causes damage to organs:
cardiovascular system |

Precautionary Statements

General:

Keep out of reach of children.

Prevention:

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Do not spray on an open flame or other ignition source.

Pressurized container: Do not pierce or burn, even after use.

Do not breathe dust/fume/gas/mist/vapors/spray.

Use only outdoors or in a well-ventilated area.

Wear eye/face protection.

Wear protective gloves.

Do not eat, drink or smoke when using this product.

Wash thoroughly after handling.

Response:

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

If eye irritation persists: Get medical advice/attention.

IF ON SKIN: Wash with plenty of soap and water.

If skin irritation occurs: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.

Call a POISON CENTER or doctor/physician if you feel unwell.

Storage:

Protect from sunlight. Do not expose to temperatures exceeding 50C/122F.

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

Disposal:

Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

Notes to Physician:

Exposure may increase myocardial irritability. Do not administer sympathomimetic drugs unless absolutely necessary.

2.3. Hazards not otherwise classified

May cause frostbite.

1% of the mixture consists of ingredients of unknown acute oral toxicity.

SECTION 3: Composition/information on ingredients

Ingredient	C.A.S. No.	% by Wt
BUTANE	106-97-8	40 - 60 Trade Secret *
ISOBUTANE	75-28-5	40 - 50 Trade Secret *
PROPANE	74-98-6	20 - 40 Trade Secret *
ISOPROPYL ALCOHOL	67-63-0	15 - 25 Trade Secret *
2-Ethylhexyl Phosphate	12645-31-7	0.1 - 1 Trade Secret *

*The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:

Remove person to fresh air. Get medical attention.

Skin Contact:

Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

Eye Contact:

Immediately flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. Get medical attention.

If Swallowed:

Rinse mouth. If you feel unwell, get medical attention.

4.2. Most important symptoms and effects, both acute and delayed

See Section 11.1. Information on toxicological effects.

4.3. Indication of any immediate medical attention and special treatment required

Exposure may increase myocardial irritability. Do not administer sympathomimetic drugs unless absolutely necessary.

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Use a fire fighting agent suitable for the surrounding fire.

5.2. Special hazards arising from the substance or mixture

Closed containers exposed to heat from fire may build pressure and explode.

Hazardous Decomposition or By-Products

Substance

Carbon monoxide
Carbon dioxide

Condition

During Combustion
During Combustion

5.3. Special protective actions for fire-fighters

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Ventilate the area with fresh air. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

If possible, seal leaking container. Place leaking containers in a well-ventilated area, preferably an operating exhaust hood, or if necessary outdoors on an impermeable surface until appropriate packaging for the leaking container or its contents is available. Contain spill. Cover spill area with a fire-extinguishing foam designed for use on solvents, such as alcohols and acetone, that can dissolve in water. An AR - AFFF type foam is recommended. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible using non-sparking tools. Place in a metal container approved for transportation by appropriate authorities. Clean up residue with water. Seal the container. Dispose of collected material as soon as possible.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Keep out of reach of children. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.)

7.2. Conditions for safe storage including any incompatibilities

Store in a well-ventilated place. Keep container tightly closed. Protect from sunlight. Do not expose to temperatures exceeding 50C/122F. Store away from heat. Store away from acids. Store away from oxidizing agents.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Ingredient	C.A.S. No.	Agency	Limit type	Additional Comments
BUTANE	106-97-8	ACGIH	STEL:1000 ppm	
Natural gas	106-97-8	ACGIH	Limit value not established:	
ISOPROPYL ALCOHOL	67-63-0	ACGIH	TWA:200 ppm;STEL:400 ppm	A4: Not class. as human carcin
ISOPROPYL ALCOHOL	67-63-0	OSHA	TWA:980 mg/m3(400 ppm)	
PROPANE	74-98-6	ACGIH	Limit value not established:	
PROPANE	74-98-6	OSHA	TWA:1800 mg/m3(1000 ppm)	
ISOBUTANE	75-28-5	ACGIH	STEL:1000 ppm	
Natural gas	75-28-5	ACGIH	Limit value not established:	

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines
 OSHA : United States Department of Labor - Occupational Safety and Health Administration
 TWA: Time-Weighted-Average
 STEL: Short Term Exposure Limit
 CEIL: Ceiling

8.2. Exposure controls

8.2.1. Engineering controls

Do not remain in area where available oxygen may be reduced. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:
 Indirect Vented Goggles

Skin/hand protection

Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing.

Gloves made from the following material(s) are recommended: Butyl Rubber
 Nitrile Rubber

Respiratory protection

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

Half facepiece or full facepiece supplied-air respirator

For questions about suitability for a specific application, consult with your respirator manufacturer.

Thermal hazards

Wear cold insulating gloves/face shield/eye protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

General Physical Form:	Liquid
Specific Physical Form:	Aerosol
Odor, Color, Grade:	Alcohol-like odor; Clear aerosol
Odor threshold	<i>No Data Available</i>
pH	<i>No Data Available</i>
Melting point	<i>Not Applicable</i>
Boiling Point	<i>Not Applicable</i>
Flash Point	>= -42 °C
Evaporation rate	<i>No Data Available</i>
Flammability (solid, gas)	Not Applicable
Flammable Limits(LEL)	<i>No Data Available</i>

Flammable Limits(UEL)	<i>No Data Available</i>
Vapor Pressure	<i>No Data Available</i>
Vapor Density	<i>No Data Available</i>
Density	.59 g/cm ³ [@ 20 °C]
Specific Gravity	0.59 [Ref Std: WATER=1]
Solubility in Water	Complete
Solubility- non-water	<i>No Data Available</i>
Partition coefficient: n-octanol/ water	<i>No Data Available</i>
Autoignition temperature	> 200 °C
Decomposition temperature	<i>No Data Available</i>
Viscosity	<i>No Data Available</i>
Volatile Organic Compounds	98.3 %
Percent volatile	<i>No Data Available</i>
VOC Less H₂O & Exempt Solvents	<i>No Data Available</i>

SECTION 10: Stability and reactivity

10.1. Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section.

10.2. Chemical stability

Stable.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Heat
Sparks and/or flames

10.5. Incompatible materials

Strong oxidizing agents
Strong acids

10.6. Hazardous decomposition products

<u>Substance</u>	<u>Condition</u>
None known.	

Refer to section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

11.1. Information on Toxicological effects

Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

Inhalation:

Intentional concentration and inhalation may be harmful or fatal.

Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

May cause target organ effects after inhalation.

Skin Contact:

Frostbite: Signs/symptoms may include intense pain, discoloration of skin, and tissue destruction.

Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, dryness, cracking, blistering, and pain.

Eye Contact:

Frostbite: Signs/symptoms may include intense pain, clouding of the cornea, redness, swelling, and blindness.

Severe Eye Irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.

Ingestion:

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

May cause target organ effects after ingestion.

Target Organ Effects:

Single exposure may cause:

Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

Single exposure, above recommended guidelines, may cause:

Cardiac Sensitization: Signs/symptoms may include irregular heartbeat (arrhythmia), faintness, chest pain, and may be fatal.

Toxicological Data

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

Acute Toxicity

Name	Route	Species	Value
Overall product	Ingestion		No data available; calculated ATE > 5,000 mg/kg
ISOBUTANE	Inhalation-Gas (4 hours)	Rat	LC50 276,000 ppm
PROPANE	Inhalation-Gas (4 hours)	Rat	LC50 > 200,000 ppm
ISOPROPYL ALCOHOL	Dermal	Rabbit	LD50 12,870 mg/kg
ISOPROPYL ALCOHOL	Inhalation-Vapor (4 hours)	Rat	LC50 72.6 mg/l
ISOPROPYL ALCOHOL	Ingestion	Rat	LD50 4,710 mg/kg
BUTANE	Inhalation-Gas (4 hours)	Rat	LC50 277,000 ppm

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
ISOBUTANE		No significant irritation
PROPANE	Rabbit	Minimal irritation
ISOPROPYL ALCOHOL	Multiple animal species	No significant irritation
BUTANE		No significant irritation

Serious Eye Damage/Irritation

Name	Species	Value
ISOBUTANE		No significant irritation
PROPANE	Rabbit	Mild irritant
ISOPROPYL ALCOHOL	Rabbit	Severe irritant
BUTANE	Rabbit	No significant irritation

Skin Sensitization

Name	Species	Value
ISOPROPYL ALCOHOL	Guinea pig	Not sensitizing

Respiratory Sensitization

Name	Species	Value
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Germ Cell Mutagenicity

Name	Route	Value
ISOBUTANE	In Vitro	Not mutagenic
PROPANE	In Vitro	Not mutagenic
ISOPROPYL ALCOHOL	In Vitro	Not mutagenic
ISOPROPYL ALCOHOL	In vivo	Not mutagenic
BUTANE	In Vitro	Not mutagenic

Carcinogenicity

Name	Route	Species	Value
ISOPROPYL ALCOHOL	Inhalation	Rat	Some positive data exist, but the data are not sufficient for classification

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test Result	Exposure Duration
ISOPROPYL ALCOHOL	Ingestion	Some positive developmental data exist, but the data are not sufficient for classification	Rat	NOAEL 400 mg/kg/day	during organogenesis
ISOPROPYL ALCOHOL	Inhalation	Some positive developmental data exist, but the data are not sufficient for classification	Rat	LOAEL 9 mg/l	during gestation

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
ISOBUTANE	Inhalation	cardiac sensitization	Causes damage to organs	Multiple animal species	NOAEL Not available	
ISOBUTANE	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human and animal	NOAEL Not available	
ISOBUTANE	Inhalation	respiratory irritation	All data are negative	Mouse	NOAEL Not available	
PROPANE	Inhalation	cardiac sensitization	Causes damage to organs	Human	NOAEL Not available	

PROPANE	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	
PROPANE	Inhalation	respiratory irritation	All data are negative	Human	NOAEL Not available	
ISOPROPYL ALCOHOL	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	
ISOPROPYL ALCOHOL	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	
ISOPROPYL ALCOHOL	Inhalation	auditory system	Some positive data exist, but the data are not sufficient for classification	Guinea pig	NOAEL 13.4 mg/l	24 hours
ISOPROPYL ALCOHOL	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	poisoning and/or abuse
BUTANE	Inhalation	cardiac sensitization	Causes damage to organs	Human	NOAEL Not available	
BUTANE	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human and animal	NOAEL Not available	
BUTANE	Inhalation	heart	Some positive data exist, but the data are not sufficient for classification	Dog	NOAEL 5,000 ppm	25 minutes
BUTANE	Inhalation	respiratory irritation	All data are negative	Rabbit	NOAEL Not available	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
ISOBUTANE	Inhalation	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 4,500 ppm	13 weeks
ISOPROPYL ALCOHOL	Inhalation	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 12.3 mg/l	24 months
ISOPROPYL ALCOHOL	Inhalation	nervous system	All data are negative	Rat	NOAEL 12 mg/l	13 weeks
ISOPROPYL ALCOHOL	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 400 mg/kg/day	12 weeks
BUTANE	Inhalation	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 4,489 ppm	90 days
BUTANE	Inhalation	blood	All data are negative	Rat	NOAEL 4,489 ppm	90 days

Aspiration Hazard

Name	Value
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Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

SECTION 12: Ecological information

Ecotoxicological information

Please contact the address or phone number listed on the first page of the SDS for additional ecotoxicological information on this material and/or its components.

Chemical fate information

Please contact the address or phone number listed on the first page of the SDS for additional chemical fate information on this material and/or its components.

SECTION 13: Disposal considerations

13.1. Disposal methods

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Incinerate in a permitted waste incineration facility. Facility must be capable of handling aerosol cans. As a disposal alternative, utilize an acceptable permitted waste disposal facility. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

EPA Hazardous Waste Number (RCRA): D001 (Ignitable)

SECTION 14: Transport Information

For Transport Information, please visit <http://3M.com/Transportinfo> or call 1-800-364-3577 or 651-737-6501.

SECTION 15: Regulatory information

15.1. US Federal Regulations

Contact 3M for more information.

311/312 Hazard Categories:

Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No Immediate Hazard - Yes Delayed Hazard - No

15.2. State Regulations

Contact 3M for more information.

15.3. Chemical Inventories

Contact 3M for more information.

15.4. International Regulations

Contact 3M for more information.

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SECTION 16: Other information

NFPA Hazard Classification

Health: 2 Flammability: 4 Instability: 0 Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

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SECTION 1 - IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND THE COMPANY

PRODUCT NAME: Bar Keepers Friend Cooktop Cleaner

RELEVANT IDENTIFIED USES OF THE MIXTURE AND USES ADVISED AGAINST: Relevant identified uses: Cleans and/or polishes most hard, nonporous surfaces. Do not use on cast iron, granite, marble, wood, fabric, leather, painted surfaces, mirrors, gold, or silver (sterling silver is OK). Do not use where rinsing thoroughly is difficult, or impossible.

MANUFACTURER: SerVaas Laboratories, Inc
5240 Walt Place
Indianapolis, IN 46254
USA

CALL FOR PRODUCT TECHNICAL INFORMATION: 1-800-433-5818 (for USA callers)
1-317-636-7760 (for non-USA callers)
www.barkeepersfriend.com


EMERGENCY TELEPHONE NUMBER(CHEMTREC): 1-800-424-9300

SECTION 2 - HAZARDS IDENTIFICATION

CLASSIFICATION OF THE MIXTURE: Skin irritation 3 - H316
Eye irritation 2B - H320

LABEL ELEMENTS:

SIGNAL WORD: Warning

HAZARD PICTOGRAM: 

HAZARD STATEMENTS: H316 Causes mild skin irritation
H320 - Causes eye irritation

PREVENTION: P264 Wash hands thoroughly after handling

RESPONSE: P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice / attention. If medical advice is needed, have container at hand.
P332+P313 If skin irritation occurs, get medical attention. If medical advice is needed, have container in hand.

SECTION 3 - COMPOSITION / INFORMATION ON THE INGREDIENTS

INGREDIENT	% By Weight	CAS Reg. No.	
WATER	Confidential	7732-18-5	
FELDSPAR*	Confidential	68476-25-5	(continued on next page)

CITRIC ACID	3 - 4	77-92-9
POLYMERIC DISPERSANT*	1 - 2	WERCS ID 1208267
NONIONIC SURFACTANT*	2 - 3	WERCS ID 1208268
ORANGE / LEMON SCENT*	0.05 - 0.09	Trade secret / mixture

*not regulated as hazardous materials

SECTION 4 - FIRST AID MEASURES

IF IN EYES:	Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice / attention. If medical advice is needed, have container at hand.
IF INGESTED:	Drink milk or water and call a doctor. Do not induce vomiting. Get medical advice / attention. If medical advice is needed, have container at hand.
IF ON SKIN:	Wash with soap and water. If skin irritation occurs, get medical attention. If medical advice is needed, have container in hand.

SECTION 5 - FIREFIGHTING MEASURES

Not a fire hazard. Use extinguishing media appropriate for surrounding fire.

SPECIAL FIREFIGHTING INSTRUCTIONS:	Wear NIOSH approved self-contained breathing apparatus and protective clothing appropriate for a chemical fire. Cool fire-exposed containers with water spray. Oxalic acid may decompose to carbon monoxide (CO) and formic acid (HCOOH) in fire conditions.
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SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:	For a small spill, wipe up with a mop, paper towels, or cloths. For large spills, use an absorbent such as kitty litter to contain spills. Carefully sweep up, raising a minimum amount of dust, and discard into a household waste container for disposal.
WASTE DISPOSAL METHOD:	Dispose according to the local, state, or federal regulations. Use baking soda to neutralize acid. Wear protective equipment as needed (see section 8).

SECTION 7 - HANDLING AND STORAGE

CONDITIONS FOR SAFE STORAGE:	Keep out of reach of children and domestic animals. Store in a dry place. Keep FROM FREEZING. DO NOT STORE WHERE TEMPERATURE MAY EXCEED 140° F.
CONDITIONS FOR SAFE USE:	Follow use directions on the label. Apply a small amount onto a wet surface or a damp cloth or sponge, then rub gently. Do not mix with other chemicals including bleach or ammonia. Wash hands after use. For prolonged use or sensitive skin, wear waterproof gloves. Respiratory protection is not normally required except as described for firefighting, or if the product is mixed with bleach or ammonia.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

PRIMARY ROUTES OF EXPOSURE: Dermal contact, hand-to-eye contact. In case of eye contact, see Section 4, First Aid.

ACCIDENTAL OR DELIBERATE INGESTION: Bar Keepers Friend Cooktop Cleaner is of minimal oral toxicity. For ingestion of a large quantity, see Section 4: First Aid.

INDIVIDUAL PROTECTION MEASURES: Prolonged contact may product dry skin or irritation in some individuals. For prolonged contact or sensitive skin, wear protective gloves (e.g. those meant for household cleaning.)

EXPOSURE LIMITS: Oxalic acid: ACGIH TLV/ OSHA PEL/ NIOSH REL 1 mg/M3 (TWA) 2 (STEL).

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: liquid	COLOR: white
ODOR: citrus	pH: 2.8 to 2.9
FREEZING: freezes at < 30°C	BOILING POINT: 100°C
FLASH POINT: not flammable	EVAPORATION RATE: . . . not known
SPECIFIC GRAVITY: 1.25	SOLUBILITY: The surfactant and citric acid are both soluble in water.

SECTION 10 - STABILITY AND REACTIVITY

STABILITY: Stable

REACTIVITY: Incompatible with chlorine bleach, ammonia, and alkaline products.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxalic acid may decompose to carbon monoxide (CO) and formic acid (HCOOH) in fire conditions.

SECTION 11 - TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:

CITRIC ACID: Oral LD50 >5040 mg/kg (rat)
Dermal LD50 not determinable
Eye irritant
Slight skin irritant
Inhalation LD50 not determined
Non sensitizer

SECTION 12 - ECOLOGICAL INFORMATION

Bar Keepers Friend Cooktop Cleaner is of minimal risk to terrestrial wildlife.

Oxalic acid, citric acid and surfactant are water soluble. Dissolution of these substances into bodies of water may cause short-term risk to fish and other aquatic organisms. Dissipation in the environment is rapid.

In case of spill, prevent runoff into bodies of water. Clean up spills as described in Section 6.

SECTION 13 - DISPOSAL CONSIDERATIONS

Bar Keepers Friend Cooktop Cleaner may be disposed of in household garbage.

SECTION 14 - TRANSPORT INFORMATION

NOT REGULATED BY DOT.

DOT TRANSPORTATION NUMBER:	Not applicable
PACKING GROUP:	Not applicable
MARITIME INFORMATION:	Not applicable
HAZARDOUS SUBSTANCES REPORT QUANTITY:	Not applicable
TDG CLASSIFICATION:	Consumer Commodity-Transborder Consignment
ADR CLASSIFICATION:	Not applicable
IMDG CLASSIFICATION:	Not regulated
IATA CLASSIFICATION:	Does not qualify in manufactured case lot size

SECTION 15 - REGULATORY INFORMATION

U.S. FEDERAL AND STATE REGULATIONS:	SARA Title III Section 313 Toxic Chemical Notification &
RELEASE REPORTING:	None
OTHER CLASSIFICATION:	Not controlled under WHMIS (Canada)

SECTION 16 - OTHER INFORMATION

NFPA	Health Hazards: 1	Flammability: 0	Instability: 0	Special: N/A
HMIS	Health Hazards: 1	Flammability: 0	Physical Hazards: 0	

Disclaimer: The information presented herein is based on available data from reliable sources and is correct to the best of SerVaas Laboratories, Inc. knowledge. SerVaas Laboratories, Inc. makes no warranty, express nor implied, regarding the accuracy of the data or the results obtained from the use of this product. The user is solely responsible for determining the suitability of any material or product for a specific purpose and for adopting any appropriate safety precautions. SerVaas Laboratories, Inc. disclaims all liability for injury or damage stemming from any improper use of the material or product described herein.

Revision Date: December 1, 2015

Supersedes document dated: 5/22/2015

Prepared by: P. SerVaas, SerVaas Laboratories, Inc.

Material Safety Data Sheet

Bath & Body Works Anti Bacterial Foaming Soap - All fragrances

1. Product and company identification

Product name	: Bath & Body Works Anti Bacterial Foaming Soap - All fragrances		
Material uses	: Hand soap.		
Supplier	: Bath & Body Works 7 Limited Parkway Reynoldsburg, OH 43068		
Manufacturers	: Tri Tech Laboratories Lynchburg, Virginia	: KDC-Columbus New Albany, Ohio	: Body Blue 2006 INC. Mississauga, Ontario
MSDS authored by	: KMK Regulatory Services Inc.		
<u>In case of emergency</u>	: CALL 3E COMPANY (24 hours) 1-800-451-8346 (Toll-free in the U.S. Virgin Islands) For calls originating elsewhere: 760-602-8703 (Collect calls are accepted) Hours of operation: 24 hours/day, 7 days/week		

2. Hazards identification

When used according to instructions, the product applicable to this MSDS is safe and presents no immediate or long-term health hazard. However, abnormal entry routes, such as gross ingestion, may require medical attention.

Emergency overview

Physical state	: Liquid. [Flowable liquid]
Color	: Varies per fragrance.
Odor	: Varies per fragrance.
Hazard statements	: NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.
OSHA/HCS status	: While this material is not classified as hazardous under OSHA regulations, this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product.
Routes of entry	: Dermal contact.

Potential acute health effects

Inhalation	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
Skin	: No known significant effects or critical hazards.
Eyes	: No known significant effects or critical hazards.

Potential chronic health effects

Chronic effects	: No known significant effects or critical hazards.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.
Target organs	: No known significant effects or critical hazards.

2. Hazards identification

Over-exposure signs/symptoms

- Inhalation** : No known significant effects or critical hazards.
Ingestion : No known significant effects or critical hazards.
Skin : No known significant effects or critical hazards.
Eyes : No known significant effects or critical hazards.
Medical conditions aggravated by over-exposure : None known.

See toxicological information (Section 11)

3. Composition/information on ingredients

United States

Name	CAS number	%
Ammonium dodecyl sulphate	2235-54-3	5 - 10
Oleyl alcohol condensed with 2 moles ethylene oxide	9004-98-2	1 - 5
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., inner salts	61789-40-0	1 - 5

Canada

Name	CAS number	%
Ammonium dodecyl sulphate	2235-54-3	5 - 10
Oleyl alcohol condensed with 2 moles ethylene oxide	9004-98-2	1 - 5
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., inner salts	61789-40-0	1 - 5

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4. First aid measures

- Eye contact** : Get medical attention if symptoms occur.
Skin contact : Can be applied directly to the skin in accordance with user instructions. Stop using the product and get medical attention if irritation develops.
Inhalation : Not applicable.
Ingestion : Get medical attention if symptoms occur (Abnormal entry route).
Notes to physician : No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested.

5. Fire-fighting measures

Flammability of the product : No specific fire or explosion hazard.

Extinguishing media

- Suitable** : Use an extinguishing agent suitable for the surrounding fire.
Not suitable : None known.
Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides
sulfur oxides
metal oxide/oxides

6. Accidental release measures

- Personal precautions** : None known.
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
- Methods for cleaning up**
- Spill** : Dilute with water and mop up if water-soluble. Place in a suitable container for disposal.

7. Handling and storage

- Handling** : Pay attention to good general hygiene and housekeeping.
- Storage** : Keep container tightly closed and sealed until ready for use.

8. Exposure controls/personal protection

Occupational exposure limits

No exposure limit value known.

Consult local authorities for acceptable exposure limits.

- Recommended monitoring procedures** : None known.
- Engineering measures** : None known.
- Hygiene measures** : Good hygiene practices and housekeeping measures
- Personal protection**
- Respiratory** : Not applicable.
- Hands** : Not applicable.
- Eyes** : None known.
- Skin** : Not applicable.

9. Physical and chemical properties

- Physical state** : Liquid. [Flowable liquid]
- Flash point** : Not flammable.
- Burning time** : Not applicable.
- Burning rate** : Not applicable.
- Auto-ignition temperature** : Not applicable.
- Flammable limits** : Not applicable.
- Color** : Varies per fragrance.
- Odor** : Varies per fragrance.
- Taste** : Not available.
- Molecular weight** : Not applicable.
- Molecular formula** : Not applicable.
- pH** : 5.4 to 6.4
- Boiling/condensation point** : Not available.
- Melting/freezing point** : Not available.
- Critical temperature** : Not available.
- Relative density** : 1 to 1.03
- Vapor pressure** : Not applicable.
- Vapor density** : Not applicable.
- Volatility** : Not available.

9. Physical and chemical properties

Odor threshold	: Not applicable.
Evaporation rate	: Not available.
SADT	: Not available.
Viscosity	: Not available.
Ionicity (in water)	: Not available.
Dispersibility properties	: Not available.
Solubility	: Not available.
Partition coefficient (LogKow)	: Not available.
Physical/chemical properties comments	: Not available.

10. Stability and reactivity

Chemical stability	: The product is stable.
Conditions to avoid	: None known.
Incompatible materials	: Reactive or incompatible with the following materials: oxidizing materials.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Possibility of hazardous reactions	: Hazardous polymerization will not occur.

11. Toxicological information

No acute or chronic toxic effects are expected when used according to directions.

Acute toxicity

There is no data available.

Chronic toxicity

There is no data available.

Irritation/Corrosion

Skin : There is no data available.

Eyes : There is no data available.

Respiratory : There is no data available.

Sensitizer

Skin : There is no data available.

Respiratory : There is no data available.

Carcinogenicity

There is no data available.

Mutagenicity

There is no data available.

Teratogenicity

There is no data available.

Reproductive toxicity

There is no data available.

12. Ecological information

No ecotoxicity (acute or chronic) effects are expected when used according to directions.

Ecotoxicity : No known significant effects or critical hazards.

Aquatic ecotoxicity

There is no data available.

Persistence/degradability

There is no data available.

13. Disposal considerations

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	Not regulated.	-	-	-		-
TDG Classification	Not regulated.	-	-	-		-
IMDG Class	Not regulated.	-	-	-		-
IATA-DGR Class	Not regulated.	-	-	-		-

PG* : Packing group

Exemption to the above classification may apply.

AERG : Not applicable

15. Regulatory information

United States

HCS Classification : EXEMPTED (Cosmetics.)

U.S. Federal regulations : **TSCA 8(a) CDR Exempt/Partial exemption**: Not determined

United States inventory (TSCA 8b): All components are listed or exempted.

SARA 302/304: No products were found.

SARA 311/312 Hazards identification: Not regulated.

Clean Water Act (CWA) 307: Triclosan

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Not listed

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

15. Regulatory information

State regulations

- Massachusetts** : None of the components are listed.
New York : None of the components are listed.
New Jersey : None of the components are listed.
Pennsylvania : None of the components are listed.
California Prop. 65

No products were found.

Canada

- WHMIS (Canada)** : EXEMPTED (Cosmetics.)

Canadian lists

- Canadian NPRI** : None of the components are listed.
CEPA Toxic substances : None of the components are listed.
Canada inventory : All components are listed or exempted.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

16. Other information

- Label requirements** : NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.

- Hazardous Material Information System (U.S.A.)** : **Health** : 0 **Flammability** : 0 **Physical hazards** : 0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

- National Fire Protection Association (U.S.A.)** : **Health** : 0 **Flammability** : 0 **Instability** : 0

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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

History

- Date of issue mm/dd/yyyy** : 05/30/2013
Version : 1
Revised Section(s) : Not applicable.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

1. Product and Company Identification

Product Name: Woolite® Heavy Traffic® Carpet Foam
Product Number: 0820, 820C, 0820D, 8203, 8203V, 8204, 08209
Chemical Formula: Mixture
Product Use: Carpet, Rug and Upholstery Cleaner
Manufacturer: 24-Hour Emergency Phone Numbers:
BISSELL Homecare, Inc. Prosar (Medical) 1 866-303-6951
PO Box 1888 Chemtrec (US) 1 800-424-9300 acct 2808
Grand Rapids, MI 49501 Chemtrec (Int'l) 1 703-527-3887
(616) 453- 4451, www.BISSELL.com
SDS@BISSELL.com

2. Hazard Identification

GHS Classification:
Gases under pressure (Liquefied gas), H280

GHS Label Elements:



Pictogram

Signal word

Warning

Hazard statement(s)

H280 Contains gas under pressure; may explode if heated.

Precautionary statement(s)

P102 Keep out of reach of children.

P251 Pressurized container – Do not pierce or burn, even after use

P410 + P403 Protect from sunlight. Store in a well-ventilated place.

3. Composition Information on Ingredients

<u>Ingredient</u>	<u>Percent</u>	<u>OSHA PPM</u>	<u>ACGIH PPM</u>	<u>CAS Number</u>
Isobutane	<5%	TLV 1000		75- 28- 5
Propane	<5%	TLV 1000	TLV 1000	74- 98- 6

Also contains surfactants, anionic polymers, fragrance and water. Exact percentages of composition has been withheld as a trade secret

4. First Aid Measures

Eye: Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation develops or persists.

Skin: Wash skin with water. Remove contaminated clothing.

Ingestion: If swallowed, call a physician or poison control center. Do NOT induce vomiting or give anything to drink unless instructed to do so by a physician. Never give anything by mouth to an unconscious person.

Inhalation: Remove affected person to fresh air. Get medical attention if person has difficulty breathing or irritation develops or persists.

5. Fire Fighting Measures

Flash Point:	Negative UN Aerosol Foam Flammability Test.
Flammability Limits:	Not determined.
Extinguishing Media:	Use water, water fog, CO ₂ , dry chemicals or foam.
Fire and Explosion Hazards:	Aerosol cans may burst if exposed to heat in excess of 120°F.
Fire Fighting Equipment:	Water may be used to cool closed containers and prevent pressure build up and possible bursting. Fire fighters should wear self-contained breathing apparatus and protective clothing.

6. Accidental Release Measures

Small Spills:	Absorb and wipe up or rinse away with water.
Large Spills:	Contain spilled product with sand or other absorbent material. Place in an appropriate container for disposal. Wash area with water.

7. Handling and Storage

Handling:	Use only as directed. Avoid contact with eyes. Use with adequate ventilation. Wash hands before eating.
Storage:	Store Out Of Reach Of Children. Do not store in direct sunlight, or at temperatures exceeding 120°F.

8. Personal Protection

Respiratory Protection:	Not required under conditions of use.
Protective Gloves:	Not required under conditions of use.
Eye Protection:	Not required under conditions of use.
Ventilation:	Not required under conditions of use.

9. Physical and Chemical Properties

Appearance:	Aerosol Spray
Odor:	Characteristic Fragrance
Boiling Point 760 mm Hg:	212°F
Vapor Pressure:	52- 58 psi (Propellant)
Vapor Density:	Is heavier than air
Solubility in Water:	Complete
Specific Gravity:	1.0
pH:	9.0- 9.8
Percent VOC:	4.9%

10. Stability and Reactivity

Chemical Stability:	Stable
Conditions to Avoid:	Temperatures above 120°F (48.8°C). Do Not puncture or incinerate containers.
Incompatibility:	Avoid contact with strong oxidizing agents.
Hazardous Decomposition:	None known
Hazardous Polymerization:	Will not occur

11. Toxicological Information

Ingestion:	The oral LD50 is greater than 5 g/ kg in rats.
Inhalation:	The inhalation LC50 is greater than 20 mg/ L for one-hour exposure for laboratory animals.
Skin:	Not a primary dermal irritant (rabbit).
Eye:	Not an ocular irritant (rabbit).

The toxicity information listed above is based on the results of acute toxicological studies, per FHSA protocols, on a very similar predecessor formula. The differences between this formula and the predecessor formula would not be expected to significantly alter the toxicological attributes of the formulation covered in this document.

12. Ecological Information

Aquatic Toxicity:	This mixture is not classified as an acute or a chronic environmental hazard.
Environmental Effects:	Product is expected to rapidly disperse in the aquatic environment.

13. Disposal Consideration

Disposal of Product:	Disposal methods must comply with all Federal, State or Provincial, and local laws and regulations.
Disposal of Packaging:	Disposal methods must comply with all Federal, State or Provincial, and local laws and regulations.

14. Transportation Information

HMIS Hazard Rating:	Health: 1	Fire: 1	Reactivity: 1
Hazard Rating Scale: 0=Insignificant; 1=Slight; 2=Moderate; 3=High; 4=Extreme			
49 CFR (GRD):	UN1950, AEROSOLS, 2.2, LTD QTY		
IATA (AIR):	UN1950, AEROSOLS, 2.2, LTD QTY		
IMDG (OCN):	UN1950, AEROSOLS, 2.2, LTD QTY		
TDGR (Canadian GND):	LIMITED QUANTITY / QUANTITE LIMITEE		
ADR / RID:	UN1950, AEROSOLS, 2.2, LTD QTY, ADR		
MEXICO (SCT):	UN1950, AEROSOLE, 2.2, CANTIDAD LIMITADA		

15. Regulatory Information

U.S. EPA SARA Reporting Requirements:

TPQ (isobutane) = 10,000 lb (4,535 kg); TPQ (propane) = 10,000 lb (4,535 kg)

U.S. EPA SARA 311/ 312 Hazards: Fire Hazard, Sudden Release of Pressure Hazard, Acute Health Hazard

U.S. EPA TSCA Inventory Status: All chemical substances of this product are listed on the TSCA inventory or are otherwise exempt from inventory status.

U.S. EPA CERCLA Reportable Quantity (RQ): NA

Other U.S. Federal Requirements: Isobutane and Propane are listed under the accident prevention provisions of section 112(r) of the Clean Air Act (CAA) with a threshold quantity (TQ) of 10,000 lb (4,535 kg). This material does not contain any hazardous air pollutants. None of the components in this product are listed as priority pollutants under the CWA. None of the components in this product are listed as toxic pollutants under the CWA

California Prop 65: None of the chemicals in this product are listed.

State Criteria Lists: Isobutane is on the following States' criteria lists: MA, NJ, and PA.

WHIMS Classification: Class A (Compressed Gases) and D2B (Other toxic effects- for surfactants).

DSL / NDSL: All of the components are listed.

Priority Substances List: None of the components are listed.

16. Other Information

The information herein is presented in good faith and believed to be accurate as of the effective date shown below. However, no warranty, expressed or implied, is given. Regulatory requirements are subject to change and may differ from one location to another. It is the buyer's responsibility to ensure that its activities comply with federal, state or Provincial, and local laws.

Effective Date: October 20, 2017

Supersedes: February 17, 2016

Prepared By: Don Mahaffy

This MSDS has been updated in the following section:

Model number

Prepared to U.S. OSHA, CMA, ANSI, Canadian WHMIS, Australian WorkSafe, Japanese Standard JIS Z 7250:2000, and EU REACH Regulations

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: **CARTRIDGES FOR TOOLS, BLANK**
CAS Number: Mixture – Metal Alloy
Synonyms: Centerfire Powertool Loaded Round, Rimfire Cartridge for Power Device, 22, 25, 27, 32, 38 Caliber Powertool Round, Power Load, Blank Power Load and/or Booster, Powder Load, Cartridges for Tools, Blank
Product Use: Centerfire Powertool Loaded Round
U.N. Number: UN 0014
U.N. Dangerous Goods Class Explosive, 1.4S
Manufacturer: Powers Fasteners, Inc.

Manufacturers' Address: 701 E. Joppa Rd., Towson, MD 21286 / USA www.powers.com
US/Canada: 1-800-524-3244 Fax: 1-877-871-1965

Emergency Telephone Number: 1-800-524-3244

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: EXPLOSIVE. KEEP AWAY FROM HEAT. DO NOT SUBJECT TO MECHANICAL SHOCK. PARTICLES FROM FIRING MAY BE HARMFUL IF INHALED. DO NOT TAKE INTERNALLY.

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Date Printed July 6, 2015

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US DOT SYMBOLS



CANADA (WHMIS) SYMBOLS

This Product is not subject to WHMIS
Class 6 Explosive

GHS HAZARD SYMBOLS



GHS Classifications:

Explosive Division 1.4
STOT RE Category 1
Reproductive Toxicity Category 1A
Aquatic Environment, Chronic II
Danger

Signal Word:

Hazard Statements :

H204: Fire or projection hazard
H372: Causes damage to nervous system, kidney, and hematopoietic system through prolonged or repeated exposure
H360: May damage fertility or the unborn child
H411: Toxic to aquatic life with long lasting effects

Target organs:

Nervous, renal and hematopoietic systems

Precautionary Statements:

P102: Keep out of reach of children
P210: Keep away from heat/sparks/open flame/hot surfaces
P250: Do not subject to shock/friction
P260: Do not breathe dust/fume/gas/mist/vapors/spray
P264: Wash hands thoroughly after handling
P270: Do not eat, drink or smoke when using this product
P271: Use only outdoors or in a well-ventilated area
P273: Avoid release to the environment
P280: Wear protective gloves/protective clothing/eye protection/face protection

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GHS Pictograms:

Explosive; Pictogram: exploding bomb
Specific Target Organ Toxicity; Pictogram Code: GHS08
Environment; Pictogram Code: GHS09

EU Classifications:

Hazard Symbols E, T, N
Risk Phrases R2: Risk of explosion by shock, friction, fire or other sources of ignition
R48: Danger of serious damage to health by prolonged exposure
R60: May impair fertility
R63: Possible risk of harm to the unborn child
R51/53: Toxic to aquatic organisms and may cause long-term adverse effects in the aquatic environment
Safety Phrases S2: Keep out of reach of children
S15: Keep away from heat
S20/21: When using do not eat, drink or smoke
S22: Do not breathe dust
S39: Wear eye/face protection
S51: Use only in well-ventilated areas
S61: Avoid release to the environment

Health Hazards or Risks From Exposure

This product is composed of a finished metal alloy cartridge which contains the various components completely sealed within. Therefore, under normal handling of this product, no exposure to any harmful materials will occur. When the product is fired, a small amount of particles may be generated which may be slightly irritating to the eyes and the respiratory tract. The particles may contain trace amounts of these harmful substances:

Lead: Ingestion of large amounts of lead can cause abdominal pain, constipation, cramps, nausea and/or vomiting. Chronic exposure to lead can cause kidney damage, anemia, reproductive effects, developmental effects and permanent nervous system damage in humans including changes in cognitive function.

Nitroglycerin: Will produce dilation of blood vessels and drop in blood pressure which may affect the heart. It has also been shown to cause methemoglobinemia (cyanosis).

Copper: Inhalation of high concentrations of metallic copper dusts or fumes may cause nasal irritation and/or nausea, vomiting and stomach pain.

It is unlikely that the amount of particles that someone would be exposed to from firing would be sufficient to cause any of these effects.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Components	% By Weight	CAS Number	EINECS/ ELINCS #
Iron	0 – 97	7439-89-6	231-096-4
Copper	50 - 65	7440-50-8	231-159-6
Zinc	15 - 32	7440-66-6	231-175-3
Nitrocellulose	2 - 13	9004-70-0	Polymer
Nitroglycerin	0.5 - 2	55-63-0	200 – 240 -8
Lead styphnate	0.1 - 1	15245-44-0	239-290-0

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4. FIRST AID MEASURES

- Eye Contact: Immediately flush out fume or particles with large amounts of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If eye irritation develops, call a physician at once.
- Skin Contact: Wash skin with plenty of soap and water.
- Inhalation: If symptoms of lung irritation occur (coughing, wheezing or breathing difficulty), remove from exposure area to fresh air immediately. If breathing has stopped, perform artificial respiration. Keep affected person warm and at rest. Get medical attention.
- Ingestion: If ingested, immediately call a physician.

Medical Conditions Aggravated By Exposure:

There are no medical conditions known to be aggravated by exposure to this product in its solid form. Exposure to lead can aggravate anemia, cardiovascular and respiratory disease.

Recommendations To Physicians:

Remove from exposure, if possible, and treat symptoms

5. FIRE FIGHTING MEASURES

PROPERTY	VALUE	PROPERTY	VALUE
Explosive	Yes	Flammable	Not applicable
Combustible	Not applicable	Pyrophoric	No
Flash Point (°C):	Not applicable	Burning Rate of Material:	Not applicable
Lower Explosive Limit:	Not applicable	Autoignition Temp.:	No data
Upper Explosive Limit:	Not applicable	Flammability Classification: (defined by 29 CFR 1910.1200)	Explosive

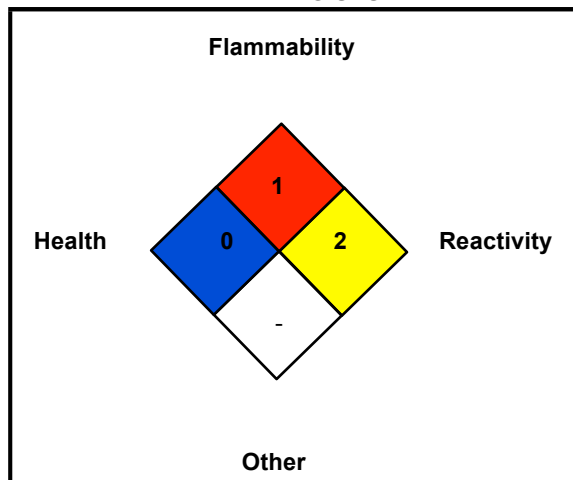
Unusal Fire and Explosion Hazards:

Extinguishing Media:

Special Firefighting Procedures:

Possible projection hazard.
 Flood area with water. If no water is available, carbon dioxide, dry chemical or earth may be used.
 Do not fight fire when fire reaches cargo. Cargo may explode.
 Firefighters must wear self-contained breathing apparatus (SCBA) and full protective equipment. Structural firefighters' protective clothing will only provide limited protection.
 Isolate materials not yet involved in the fire. Move containers from fire area if possible; otherwise, cool with carefully applied water spray.
 Prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas, if practical.

NFPA RATING SYSTEM




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HMIS RATING SYSTEM

HEALTH HAZARD (BLUE)		0*	
FLAMMABILITY HAZARD (RED)		1	
PHYSICAL HAZARD (YELLOW)		2	
PROTECTIVE EQUIPMENT			
EYES	PPE CODE	RESPIRATORY	HEARING
	A	See Sect 8	See Sect 8

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

6. ACCIDENTAL RELEASE MEASURES

FOR ALL TRANSPORTATION ACCIDENTS, CALL CHEMTREC AT 800-424-9300.

Spill Response: A spill of this material will normally not require emergency response team capabilities. If, however, a large spill occurs, call 1-888-289-1911 for technical assistance.

Accidental Release Procedures: Spills of this material should be handled carefully. Do not subject materials to mechanical shock. Collect material and place in a designated, labeled waste container. See Section 13 for waste disposal.

7. HANDLING AND STORAGE

Precautions for Safe Handling: Use appropriate personal protective equipment (see Section 8). Workers should wash hands thoroughly after handling. Eating, drinking and smoking should be prohibited in areas where this material is handled and stored.

Conditions for Safe Storage: Store in accordance with local regulations. Store in original containers in a cool, dry location away from Acids, Class A & B explosives, strong oxidizers, and caustics. Avoid mechanical impact or shock and electrical discharge.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters:

CAS #	CHEMICAL NAME	ACGIH TLV	OSHA PEL	INTERNATIONAL OELS
7439-89-6	Iron	None established	None established	None established
7440-50-8	Copper	0.2 mg/m ³ (fume), 1 mg/m ³ (dusts and mists)	0.1 mg/m ³ (fume) 1 mg/m ³ (dusts and mists)	Austria, Belgium, Canada: 0.2 mg/m ³ (fumes), 1 mg/m ³ (dusts) Denmark: 1.0 mg/m ³ (dust and powder) Germany (MAK): 0.1 mg/m ³ (fume), 1 mg/m ³ (dusts and mists)
7440-66-6	Zinc	None established	None established	None established
9004-70-0	Nitrocellulose	None established	None established	None established
55-63-0	Nitroglycerin	0.05 ppm (0.46 mg/m ³) Skin	Ceiling – 0.2 ppm (2 mg/m ³) Skin	Denmark: 0.02 ppm (0.2 mg/m ³) Norway, Sweden: 0.03 ppm (0.3 mg/m ³) Austria, Belgium, Germany, The Netherlands, Poland, Switzerland: 0.05 ppm (0.47 mg/m ³), skin Finland, France: 0.1 ppm (0.9 mg/m ³), skin U.K.: 0.2 ppm (2 mg/m ³), skin
15245-44-0	Lead styphnate	None established	None established	None established

Engineering Controls: Local exhaust ventilation is recommended if significant dusting occurs or fumes are generated. Otherwise, use general exhaust ventilation. Use explosion-proof ventilation.

Respiratory Protection: Not normally needed. Maintain airborne contaminant concentrations below guidelines listed above. Use an appropriate approved air-purifying respirator equipped with HEPA cartridges/canisters where there is the potential for exceeding established occupational exposure limits.

Eye/Face Protection: Use safety glasses.

Hand Protection: Not normally needed

Skin Protection: Not normally needed.

Hearing Protection: Not normally needed. During firing use hearing protection.

General Hygiene: Do not eat, drink, or smoke while using this product. Wash hands thoroughly after use.

9. PHYSICAL AND CHEMICAL PROPERTIES

PROPERTY	VALUE	PROPERTY	VALUE
<i>Appearance:</i>	Cylindrical brass cartridge	<i>Physical State:</i>	Solid
<i>Odor:</i>	None	<i>Odor Threshold:</i>	None
<i>Boiling Point (°F):</i>	Not applicable	<i>Melting point:</i>	Not applicable
<i>Vapor Pressure (mm Hg):</i>	Not applicable	<i>Freezing point:</i>	Not applicable
<i>Vapor Density (air = 1):</i>	Not applicable	<i>Bulk Density</i>	Not applicable
<i>Specific gravity (g/cc):</i>	Not applicable	<i>Viscosity (cps):</i>	Not applicable
<i>pH:</i>	Not applicable	<i>Decomposition Temperature:</i>	Not applicable
<i>Solubility in Water (20 °C):</i>	Insoluble	<i>Evaporation Rate:</i>	Not applicable
<i>Volatiles, Percent by volume:</i>	Not applicable	<i>Octanol/water partition coefficient:</i>	Not applicable

10. STABILITY AND REACTIVITY

Stability: Stable under normal temperatures and pressure.

Possibility of Hazardous Reactions: Hazardous polymerization will not occur

Incompatible Materials: Acids, Class A & B explosives, strong oxidizers, and caustics

Hazardous Decomposition Products: Nitrogen oxides, carbon monoxide, lead oxides, carbon dioxide, lead dust/fume

Conditions to Avoid: Contact with incompatible materials. Physical damage to containers; cartridges may detonate if case is punctured.

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11. TOXICOLOGICAL INFORMATION

Potential Routes of Entry: Inhalation, Skin, and by Ingestion.

The physical nature of this product makes absorption from any route unlikely. A small amount of inhalable particles may be created when cartridge is fired.

Effects Of Acute Exposure:

PRODUCT		COMPONENTS					
		Lead styphnate	Nitroglycerin	Copper	Nitrocellulose	Iron	Zinc
Inhalation LC ₅₀	Particles generated from firing may be slightly toxic	No data	No data	No data	No data	No data	No data
Skin Contact LD ₅₀	Skin absorption unlikely	No data	> 280 mg/kg (rabbit)	375 mg/kg, sc (rabbit)	No data	No data	No data
Ingestion LD ₅₀	Ingestion unlikely	No data	105 mg/kg (rat)	3.5 mg/kg, ip (mouse)	> 5 g/kg (rat)	30 g/kg (rat)	No data
Irritation	Particles generated from firing may be slightly irritating to the eyes	No data	Mild eye and skin irritant	Respiratory irritant	No data	Eye irritant	Eye irritant
Sensitization	Sensitization to this Product has not been reported	No data	No data	No data	No data	No data	No data

Other Adverse Effects:

Target Organ Toxicity:

No reported target organ toxicity from this product. Lead has caused nervous system, kidney and hematopoietic system damage in humans and laboratory animals.

Reproductive Toxicity:

This product is not known or reported to cause reproductive effects. Lead has been shown to reduce male reproductive function in humans and laboratory animals.

Teratogenicity (Birth Defects):

This product is not known or reported to cause developmental toxicity. Lead has been shown to affect fetal development including birth defects.

Mutagenicity:

This product is not known or reported to be mutagenic. Lead has been shown to be mutagenic in several *in vitro* assays.

Carcinogenicity:

This product is not listed as a carcinogen by OSHA, NTP or IARC. IARC lists lead as possibly carcinogenic to humans, group 2B.

12. ECOLOGICAL INFORMATION

Environmental Effects:

PRODUCT: Product has not been tested for environmental properties.

COMPONENTS:

Copper:

Copper concentrations from 0.1 to 1.0 mg/l have been found to be not toxic for most fish. However, concentrations of 0.015 to 3.0 mg/l have been reported as toxic, particularly in soft water to many kinds of fish, crustacea, mollusks, insects, and plankton.

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Lead: LC 50 (48 hrs.) to bluegill is reported to be 2-5 mg/l. Lead is toxic to waterfowl.

Nitrocellulose: LC₅₀ > 1000 mg/l to fish, invertebrates, and algae.

Nitroglycerin: LC₅₀ = 1.228 mg/l to Bluegill, (96 hour, static)

Zinc: The following concentrations of zinc have been reported as lethal to fish: 0.13 mg/l, for 12 – 24 hours to Rainbow trout fingerlings; 1.9 – 3.6 mg/l, 6 hr TLM (soft water, 30°C) to Bluegill Sunfish; 4 mg/l, 3 days (hard water) to Rainbow trout; 1 mg/l, 24 hours (soft water) to Sticklebacks.
The presence of copper appears to have a synergistic effect on the toxicity of zinc towards fish.

Environmental Fate:

MOBILITY: Dissolved lead may migrate through soil.
PERSISTANCE/DEGRADABILITY: Not biodegradable.
BIOACCUMULATION: No data

13. DISPOSAL CONSIDERATIONS

Care must be taken to prevent environmental contamination from the use of this material. The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding the treatment, storage and disposal for hazardous and nonhazardous wastes.

14. TRANSPORT INFORMATION

Regulatory Information for US DOT, IATA, IMO, and ADR:

Proper Shipping Name: Cartridges for Tools, blank

Hazard Class Number and Description: Explosive 1.4S

UN Identification Number: UN 0014

Packing Group: PGII

DOT Label(s) Required: Explosive 1.4

Marine Pollutant: None of the ingredients are classified by the DOT as a Marine Pollutant (as defined by 49 CFR 172.101, Appendix B)

Additional Information:

North American Emergency Response Guidebook Number (2004): 114

U.S. DEPARTMENT OF TRANSPORTATION SHIPPING REGULATIONS: This product is classified as dangerous goods under 49 CFR 172.101. Note: May be reclassified domestically as an ORM-D if packaged as a consumer commodity per 49 CFR 173.

TRANSPORT CANADA, TRANSPORTATION OF DANGEROUS GOODS REGULATIONS: This product is classified as Dangerous Goods.

INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA): This product is classified as Dangerous Goods.

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INTERNATIONAL MARITIME ORGANIZATION (IMO) DESIGNATION: This product is classified as Dangerous Goods.

EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY ROAD (ADR): This product is classified by the United Nations Economic Commission for Europe to be dangerous goods.

15. REGULATORY INFORMATION

US FEDERAL

TSCA	The components of this product are listed on the Toxic Substance Control Act inventory.				
CERCLA:	Copper, R.Q.* = 5000 lbs.; Zinc, R.Q. = 1000 lbs.; Nitroglycerin, R.Q. = 10 lbs; Lead, R.Q. = 10 lbs. (No reporting is required if diameter of the pieces of metal is equal to or exceeds 100 micrometers (0.004 inches).				
SARA 313:	Copper, Lead and Lead compounds, Nitroglycerin, Zinc (fume or dust)				
SARA 311/312:	<u>Health:</u>	Acute – No Chronic - No	<u>Fire:</u> No	<u>Reactivity:</u> None	<u>Release of Pressure:</u> Yes
SARA 302 EHS List:	None of the components of this product are listed.				

*RQ = Reportable Quantity

STATE RIGHT-TO-KNOW STATUS

Component	California	New Jersey	Pennsylvania	Massachusetts	Michigan
Iron	Not listed	Not listed	Not listed	Not listed	Not listed
Copper	Not listed	X	X	X	X
Zinc	Not listed	X	Not listed	X	X
Nitrocellulose	Not listed	X	X	X	Not listed
Nitroglycerin	Not listed	X	X	X	Not listed
Lead styphnate	X	Not listed	Not listed	X	Not listed

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65)

Warning! This product contains detectable amounts of a chemical known to the State of California to cause cancer and/or birth defects or other reproductive harm.

GHS CLASSIFICATION

Explosive Division 1.4
 STOT RE Category 1
 Reproductive Toxicity Category 1A
 Aquatic Environment, Chronic II

EUROPEAN REGULATIONS

Hazard Classification

Danger Symbols: E, T, N
 Risk Phrases: R2, R48, R60, R63, R51/53
 Safety Phrases: S2, S15, S20/21, S22, S39, S51, S61

German WGK Classification: Not known.

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CANADIAN REGULATIONS

DSL/NDSL Inventory: The components of this product are on the DSL

IDL: Copper, Lead

CEPA PRIORITIES LIST: None

WHMIS: This product is not subject to WHMIS. It is regulated as a Class 6 Explosive in Canada.

JAPANESE REGULATIONS

Existing National Inventory of Chemical Substances (ENCS): The components of this product are listed

Japanese Priority Assessment Chemical Substances: None of the components of this product are listed

OTHER INTERNATIONAL CHEMICAL INVENTORIES

Swiss Giftliste List of Toxic Substances: All Components Listed

Australian Inventory (AICS): All Components Listed

16. OTHER INFORMATION

REVISIONS:

PREPARED BY: Powers Fasteners, Inc.

OTHER: Additional information available from: www.powers.com

NOTICE: THE INFORMATION IN THIS SDS SHOULD BE PROVIDED TO ALL WHO WILL USE, HANDLE, STORE, TRANSPORT, OR OTHERWISE BE EXPOSED TO THIS PRODUCT. THIS INFORMATION HAS BEEN PREPARED FOR THE GUIDANCE OF PLANT ENGINEERING, OPERATIONS AND MANAGEMENT AND FOR PERSONS WORKING WITH OR HANDLING THIS PRODUCT. OLIN BELIEVES THIS INFORMATION TO BE RELIABLE AND CURRENT AS OF THE DATE OF PUBLICATION, BUT MAKES NO WARRANTY THAT IT IS.

1. Identification

Product identifier	Corn Starch	
Other means of identification	Not available.	
Recommended use	Not available.	
Recommended restrictions	None known.	
Manufacturer/Importer/Supplier/Distributor information		
Company name	Cargill, Incorporated	
Address	Minneapolis, MN 55440 US	
Telephone	General Information:	1-800-370-7386
E-mail	Not available.	
Emergency phone number	24 Hour Emergency:	1-800-424-9300

2. Hazard(s) identification

Physical hazards	Not classified.
Health hazards	Not classified.
OSHA defined hazards	Combustible dust

Label elements



Signal word	Warning
Hazard statement	May form combustible dust concentrations in air.
Precautionary statement	
Prevention	Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Prevent dust accumulation to minimize explosion hazard.
Response	Wash hands after handling.
Storage	Store away from incompatible materials.
Disposal	Dispose of waste and residues in accordance with local authority requirements.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	Not applicable.

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%
Corn Starch	63798-35-6	100

4. First-aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary irritation.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
5. Fire-fighting measures	
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO ₂). Apply extinguishing media carefully to avoid creating airborne dust.
Unsuitable extinguishing media	None known.
Specific hazards arising from the chemical	Dust may form explosive mixture with air. Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire-fighting equipment/instructions	In the event of fire, cool tanks with water spray.
Specific methods	Cool containers exposed to flames with water until well after the fire is out.
General fire hazards	No unusual fire or explosion hazards noted.
6. Accidental release measures	
Personal precautions, protective equipment and emergency procedures	Use only non-sparking tools. Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Wear appropriate personal protective equipment. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Following product recovery, flush area with water. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling	Use with adequate ventilation. Eliminate all sources of ignition. Minimize dust generation and accumulation. Combustible dust clouds may be created where operations produce fine material (dust). Avoid significant deposits of material, especially on horizontal surfaces, which may become airborne and form combustible dust clouds and may contribute to secondary explosions. Handling and processing operations should be conducted in accordance with 'best practices' (e.g. NFPA-654). Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Avoid direct contact with eyes.
Conditions for safe storage, including any incompatibilities	Keep away from heat, sparks and open flame. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Keep container tightly closed. Store in a cool, dry place out of direct sunlight. Store in a well-ventilated place. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces.
8. Exposure controls/personal protection	
Occupational exposure limits	No exposure limits noted for ingredient(s).
Biological limit values	No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen-deficient environment. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment). Use only appropriately classified electrical equipment and powered industrial trucks.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).
Skin protection
Hand protection Wear suitable gloves.
Other Wear suitable protective clothing.
Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.
Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance White powder.
Physical state Solid.
Form Powder.
Color White.

Odor Bland.

Odor threshold Not available.

pH Not available.

Melting point/freezing point Not available.

Initial boiling point and boiling range Not available.

Flash point Not available.

Evaporation rate Not available.

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower (%) Not available.

Flammability limit - upper (%) Not available.

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure Not available.

Vapor density Not available.

Relative density 1.45 - 1.6

Solubility(ies)

Solubility (water) Negligible

Partition coefficient (n-octanol/water) Not available.

Auto-ignition temperature 770 °F (410 °C)

Decomposition temperature Not available.

Viscosity Not available.

10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Keep away from heat, sparks and open flame. Minimize dust generation and accumulation. Contact with incompatible materials. Humidity.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Carbon oxides.

11. Toxicological information

Information on likely routes of exposure

Ingestion	Ingestion may cause irritation and malaise.
Inhalation	No adverse effects due to inhalation are expected.
Skin contact	May cause skin irritation.
Eye contact	May cause eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics Irritant effects.

Information on toxicological effects

Acute toxicity	Not available.
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.
Respiratory or skin sensitization	
Respiratory sensitization	No data available.
Skin sensitization	No data available.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
Reproductive toxicity	No data available.
Specific target organ toxicity - single exposure	No data available.
Specific target organ toxicity - repeated exposure	No data available.
Aspiration hazard	No data available.

12. Ecological information

Ecotoxicity	Not expected to be harmful to aquatic organisms.
Persistence and degradability	No data is available on the degradability of this product.
Bioaccumulative potential	No data available for this product.
Mobility in soil	No data available.
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information**DOT**

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not established.

15. Regulatory information

US federal regulations This product is hazardous according to OSHA 29 CFR 1910.1200 due to the potential for dust explosion.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No
Delayed Hazard - No
Fire Hazard - Yes
Pressure Hazard - No
Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical No

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA) Not regulated.

US state regulations This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

US. Massachusetts RTK - Substance List

Not regulated.

US. New Jersey Worker and Community Right-to-Know Act

Not listed.

US. Pennsylvania Worker and Community Right-to-Know Law

Not listed.

US. Rhode Island RTK

Not regulated.

US. California Proposition 65**US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance**

Not listed.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date	19-June-2014
Revision date	-
Version #	01
Further information	Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids, for safe handling.
Disclaimer	The information contained herein is believed to be true and accurate. However, all statements, recommendations or suggestions are made without any guarantee, representation or warranty, express or implied, on our part. Therefore, no warranty is made or to be implied that the information set out in this document is accurate or complete, and we accordingly exclude all liability in connection with the use of this information or the products referred to herein. All such risks are assumed by the purchaser/user. For the avoidance of doubt, however, nothing in this document excludes or limits our liability for death or personal injury caused by our negligence or for fraudulent misrepresentation.



SAFETY DATA SHEET

Commercial ABC Dry Chemical (Fire Extinguishing Agent, Pressurized and Non-pressurized)

1. IDENTIFICATION

Product Name	Commercial ABC Dry Chemical (Fire Extinguishing Agent, Pressurized and Non-pressurized)
Other Names	Multi-Purpose, Ammonium Phosphate, Monoammonium Phosphate
Recommended use of the chemical and restrictions on use	
Identified uses	Fire Extinguishing Agent
Restrictions on use	Consult applicable fire protection codes
Company Identification	Badger Fire Protection 8767 Seminole Trail, Suite 202 Ruckersville, VA 22968 USA
Customer Information Number	(434)-964-3200
Emergency Telephone Number	
CHEMTREC Number	(800) 424-9300 (703) 527-3887 (International)
Issue Date	November 23, 2016
Supersedes Date	October 1, 2015

Safety Data Sheet prepared in accordance with OSHA's Hazard Communication Standard (29 CFR 1910.1200) and the Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

2. HAZARD IDENTIFICATION

This SDS covers the product listed above as sold in pressurized and non-pressurized containers. GHS classifications for both forms are listed below.

GHS Classification – Pressurized

Hazard Classification

Gas under pressure – Compressed gas

Label Elements

Hazard Symbols



Signal Word: Warning

Hazard Statements

Contents under pressure; may explode if heated.



SAFETY DATA SHEET

Commercial ABC Dry Chemical (Fire Extinguishing Agent, Pressurized and Non-pressurized)

2. HAZARD IDENTIFICATION

Precautionary Statements

Prevention

None

Response

None

Storage

Protect from sunlight.

Store in well-ventilated place.

Disposal

None

GHS Classification: Non - pressurized

Hazard Classification

This product is classified as not hazardous in accordance with the Globally Harmonized System of Classification and Labelling (GHS).

Label Elements

Hazard Symbols

None

Signal Word: None

Hazard Statements

None

Precautionary Statements

Prevention

None

Response

None

Storage

None

Disposal

None

Other Hazards

Mica may contain small quantities of quartz (crystalline silica) as an impurity. Prolonged exposure to respirable crystalline silica dust at concentrations exceeding the occupational exposure limits may increase the risk of developing a disabling lung disease known as silicosis. IARC found limited evidence for pulmonary carcinogenicity of crystalline silica in humans.

Specific Concentration Limits

The values listed below represent the percentages of ingredients of unknown toxicity.

Acute oral toxicity < 10%

Acute dermal toxicity < 10%

Acute inhalation toxicity < 10%

Acute aquatic toxicity < 10%



SAFETY DATA SHEET

Commercial ABC Dry Chemical (Fire Extinguishing Agent, Pressurized and Non-pressurized)

3. COMPOSITION/INFORMATION ON INGREDIENTS

This product is a mixture.

Component	CAS Number	Concentration
Monoammonium Phosphate	7722-76-1	55 - 65%
Ammonium Sulfate	7783-20-2	30 - 40%
Mica	12001-26-2	< 5%
Clay	1332-58-7	< 5%
Amorphous Silica	7631-86-9	< 5%
Dye	NA	<1%

Note: Pressurized product uses nitrogen or compressed air as the expellant.

4. FIRST- AID MEASURES

Description of necessary first-aid measures

Eyes

Immediately flood the eye with plenty of water for at least 15 minutes, holding the eye open. Obtain medical attention if soreness or redness persists.

Skin

Wash skin thoroughly with soap and water. Obtain medical attention if irritation persists.

Ingestion

Dilute by drinking large quantities of water and obtain medical attention.

Inhalation

Move victim to fresh air. Obtain medical attention immediately for any breathing difficulty.

Most important symptoms/effects, acute and delayed

Aside from the information found under Description of necessary first aid measures (above) and Indication of immediate medical attention and special treatment needed, no additional symptoms and effects are anticipated.

Indication of immediate medical attention and special treatment needed

Notes to Physicians

Treat symptomatically.

5. FIRE - FIGHTING MEASURES

Suitable Extinguishing Media

This preparation is used as an extinguishing agent and therefore is not a problem when trying to control a fire. Use extinguishing agent appropriate to other materials involved. Keep pressurized containers and surroundings cool with water spray as they may rupture or burst in the heat of a fire.

Specific hazards arising from the chemical

Pressurized containers may explode in heat of fire.

Special Protective Actions for Fire-Fighters

Wear full protective clothing and self-contained breathing apparatus as appropriate for specific fire conditions.



SAFETY DATA SHEET

Commercial ABC Dry Chemical (Fire Extinguishing Agent, Pressurized and Non-pressurized)

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Wear appropriate protective clothing. Prevent skin and eye contact. Remove leaking container to a safe place. Ventilate the area.

Environmental Precautions

Prevent large quantities of the material from entering drains or watercourses.

Methods and materials for containment and cleaning up

Sweep up or vacuum and transfer into suitable containers for recovery or disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Wear appropriate protective clothing. Prevent skin and eye contact.

Conditions for safe storage

Pressurized containers should be properly stored and secured to prevent falling or being knocked over. Do not drag, slide or roll pressurized containers. Do not drop pressurized containers or permit them to strike against each other. Never apply flame or localized heat directly to any part of the pressurized or plastic container. Store pressurized and plastic containers away from high heat sources. Storage area should be:
- cool - dry - well ventilated - under cover - out of direct sunlight

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure limits are listed below, if they exist.

Mica

ACGIH TLV: 3 mg/m³ TWA, measured as respirable fraction of the aerosol.

OSHA PEL: 20 mppcf, <1% crystalline silica

Clay as Kaolin, Respirable Fraction

ACGIH TLV: 2 mg/m³ TWA

OSHA PEL: 15 mg/m³ TWA, total dust

5 mg/m³ TWA, respirable fraction

Nuisance Dust Limit

OSHA PEL: 50 mppcf or 15 mg/m³ TWA, total dust

15 mppcf or 5 mg/m³ TWA, respirable fraction

Appropriate engineering controls

Use with adequate ventilation. If this product is used in a pressurized system, there should be local procedures for the selection, training, inspection and maintenance of this equipment. When used in large volumes, use local exhaust ventilation.

Individual protection measures

Respiratory Protection

Not normally required. Use dust mask where dustiness is prevalent, or TLV is exceeded. In oxygen deficient atmospheres, use a self contained breathing apparatus, as an air purifying respirator will not provide protection.



SAFETY DATA SHEET
Commercial ABC Dry Chemical
(Fire Extinguishing Agent, Pressurized and Non-pressurized)

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Skin Protection

Gloves

Eye/Face Protection

Chemical goggles or safety glasses with side shields.

Body Protection

Normal work wear.

9. PHYSICAL AND CHEMICAL PROPERTIES

Non- Pressurized

Appearance

Physical State Solid (powder)
Color Pale Yellow

Odor Odorless

Odor Threshold No data available

pH Not applicable

Specific Gravity No data available

Boiling Range/Point (°C/F) Not applicable

Melting Point (°C/F) No data available

Flash Point (PMCC) (°C/F) Not flammable

Vapor Pressure No data available

Evaporation Rate (BuAc=1) No data available

Solubility in Water No data available

Vapor Density (Air = 1) Not applicable

VOC (g/l) None

VOC (%) None

Partition coefficient (n-octanol/water) No data available

Viscosity No data available

Auto-ignition Temperature No data available

Decomposition Temperature No data available

Upper explosive limit No data available

Lower explosive limit No data available

Flammability (solid, gas) No data available

Expellant - Nitrogen

Appearance

Physical State Compressed gas
Color Colorless

Odor None

Odor Threshold No data available

pH Not applicable

Specific Gravity 0.075 lb/ft³ @70°F as vapor

Boiling Range/Point (°C/F) -196°C/-321 °F

Melting Point (°C/F) No data available

Flash Point (PMCC) (°C/F) Not flammable

Vapor Pressure No data available

Evaporation Rate (BuAc=1) No data available

Solubility in Water No data available



SAFETY DATA SHEET

Commercial ABC Dry Chemical (Fire Extinguishing Agent, Pressurized and Non-pressurized)

9. PHYSICAL AND CHEMICAL PROPERTIES

Vapor Density (Air = 1)	Not applicable
VOC (g/l)	None
VOC (%)	None
Partition coefficient (n-octanol/water)	No data available
Viscosity	Not applicable
Auto-ignition Temperature	No data available
Decomposition Temperature	No data available
Upper explosive limit	Not explosive
Lower explosive limit	Not explosive
Flammability (solid, gas)	Not flammable

10. STABILITY AND REACTIVITY

Reactivity

Pressurized containers may rupture or explode if exposed to heat.

Chemical Stability

Stable under normal conditions.

Possibility of hazardous reactions

Hazardous polymerization will not occur.

Conditions to Avoid

Exposure to direct sunlight - contact with incompatible materials

Incompatible Materials

Strong oxidizing agents - strong acids - sodium hypochlorite

Hazardous Decomposition Products

Oxides of carbon - ammonia - oxides of phosphorus - nitrogen oxides

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Monoammonium Phosphate:

Oral LD50 (Rat) 5750 mg/kg

Dermal LD50 (Rabbit) >5000mg/kg

Inhalation LC50 (Rat) 5.1mg/l

Ammonium Sulfate:

Oral LD50 (Rat) 4250 mg/kg

Dermal LD50 (Rabbit) >2000mg/kg

Mica:

Oral LD50 (Rat) >2000 mg/kg

Amorphous Silica:

Oral LD50 (Rat) >5000 mg/kg

Dermal LD50 (Rabbit) >2000mg/kg



SAFETY DATA SHEET

Commercial ABC Dry Chemical (Fire Extinguishing Agent, Pressurized and Non-pressurized)

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Clay

Oral LD50 (Rat) >5000 mg/kg

Dermal LD50 (Rabbit) >5000mg/kg

Nitrogen

Simple asphyxiant

Specific Target Organ Toxicity (STOT) – single exposure

Monoammonium Phosphate: Available data indicates this component is not expected to cause target organ effects after a single exposure.

Ammonium Sulfate: Available data indicates this component is not expected to cause target organ effects after a single exposure.

Nitrogen: Exposure to nitrogen gas at high concentrations can cause suffocation by reducing oxygen available for breathing. Breathing very high concentrations can cause dizziness, shortness of breath, unconsciousness or asphyxiation.

Specific Target Organ Toxicity (STOT) – repeat exposure

Monoammonium Phosphate: Available data indicates this component is not expected to cause target organ effects after repeat exposure.

Ammonium Sulfate: Available data indicates this component is not expected to cause target organ effects after repeat exposure.

Serious Eye damage/Irritation

Monoammonium Phosphate: Not irritating (rabbit)

Ammonium Sulfate: Not irritating (rabbit)

Mica: Not irritating (rabbit)

Skin Corrosion/Irritation

Monoammonium Phosphate: Not irritating in rabbit test study

Ammonium Sulfate: Not irritating (rabbit)

Mica: Not irritating (rabbit)

Respiratory or Skin Sensitization

Monoammonium Phosphate: Not skin sensitizing based on test (Mouse local lymphnode assay (LLNA)) on an analogous compound

Ammonium Sulfate: Not sensitizing in Guinea pig maximisation test

Carcinogenicity

Mica may contain small quantities of quartz (crystalline silica) as an impurity. Prolonged exposure to respirable crystalline silica dust at concentrations exceeding the occupational exposure limits may increase the risk of developing a disabling lung disease known as silicosis. IARC has classified Silica Dust, Crystalline, in the form of quartz or cristobalite as 1 (carcinogenic to humans).

Germ Cell Mutagenicity

Monoammonium Phosphate: Not mutagenic in the mouse lymphoma cells in mammalian cell gene mutation assay

Ammonium Sulfate: Negative results in Ames Test, in vitro mammalian chromosome aberration test, and mammalian cell gene mutation assay.



SAFETY DATA SHEET

Commercial ABC Dry Chemical (Fire Extinguishing Agent, Pressurized and Non-pressurized)

11. TOXICOLOGICAL INFORMATION

Reproductive Toxicity

Monoammonium Phosphate: Available data indicates this component is not expected to cause reproductive toxicity or birth defects.

Ammonium Sulfate: Available data indicates this component is not expected to cause reproductive toxicity or birth defects.

Aspiration Hazard

Not an aspiration hazard.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Monoammonium Phosphate:

LC50 rainbow trout >100 mg/l 96h

LC50 water flea 1790 mg/l 72h (similar substance)

Mobility in soil

No relevant studies identified.

Persistence/Degradability

No relevant studies identified.

Bioaccumulative Potential

No relevant studies identified.

Other adverse effects

No relevant studies identified.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose of container in accordance with all applicable local and national regulations.

14. TRANSPORT INFORMATION

Safety Data Sheet information is intended to address a specific material and not various forms or states of containment.

Special Precautions for Shipping:

Individuals must be certified as Hazardous Material Shipper for all transportation modes.

Pressurized Fire Extinguishers are considered a hazardous material by the US Department of Transportation and Transport Canada.

DOT CFR 172.101 Data	Fire extinguishers, 2.2, UN1044
UN Proper Shipping Name	Fire extinguishers
UN Class	(2.2)
UN Number	UN1044
UN Packaging Group	Not applicable
Classification for AIR Transportation (IATA)	Consult current IATA Regulations prior to shipping by air.



SAFETY DATA SHEET

Commercial ABC Dry Chemical (Fire Extinguishing Agent, Pressurized and Non-pressurized)

14. TRANSPORT INFORMATION

**Classification for Water
Transport IMDG**

Consult current IMDG Regulations prior to shipping by water.

When shipping via ground, portable fire extinguishers pressurized to less than 241 psi and of less than 1100 cubic inches in size meet the requirements of "Limited Quantity" as referenced in 49 CFR 173.309 (2010). There is no limited quantity designation for fire extinguishers when shipped by air or water.

This section is believed to be accurate at the time of preparation. It is not intended to be a complete statement or summary of the applicable laws, rules, or hazardous material regulations, and is subject to change. Users have the responsibility to confirm compliance with all laws, rules, and hazardous material regulations in effect at the time of shipping.

15. REGULATORY INFORMATION

United States TSCA Inventory

This product contains ingredients that are listed on or exempt from listing on the EPA Toxic Substance Control Act Chemical Substance Inventory.

Canada DSL Inventory

All ingredients in this product are listed on the Domestic Substance List (DSL) or the Non-Domestic Substance List (NDSL) or are exempt from listing.

SARA Title III Sect. 311/312 Categorization: Pressurized

Pressure hazard

SARA Title III Sect. 311/312 Categorization: Non-pressurized

None

SARA Title III Sect. 313

This product does not contain any chemicals that are listed in Section 313 at or above de minimis concentrations.

16. OTHER INFORMATION

NFPA Ratings

NFPA Code for Health - 1

NFPA Code for Flammability - 0

NFPA Code for Reactivity - 0

NFPA Code for Special Hazards - None

HMIS Ratings

HMIS Code for Health - 1

HMIS Code for Flammability - 0

HMIS Code for Physical Hazard - 0

HMIS Code for Personal Protection - See Section 8

*Chronic



SAFETY DATA SHEET

Commercial ABC Dry Chemical (Fire Extinguishing Agent, Pressurized and Non-pressurized)

16. OTHER INFORMATION

Legend

ACGIH: American Conference of Governmental Industrial Hygienists

CAS#: Chemical Abstracts Service Number

EC50: Effect Concentration 50%

IARC: International Agency for Research on Cancer

LC50: Lethal Concentration 50%

LD50: Lethal Dose 50%

N/A: Denotes no applicable information found or available

OSHA: Occupational Safety and Health Administration

PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit

TLV: Threshold Limit Value

TSCA: Toxic Substance Control Act

Revision Date: November 23, 2016

Replaces: October 1, 2015

Changes made: Update to company address.

Information Source and References

This SDS is prepared by Hazard Communication Specialists based on information provided by internal company references.

Prepared By: EnviroNet LLC.

The information and recommendations presented in this SDS are based on sources believed to be accurate. Badger Fire Protection assumes no liability for the accuracy or completeness of this information. It is the user's responsibility to determine the suitability of the material for their particular purposes. In particular, we make **NO WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED**, with respect to such information, and we assume no liability resulting from its use. Users should ensure that any use or disposal of the material is in accordance with applicable Federal, State, and local laws and regulations.

Section 1 - Product and Company Identification

Product Identifiers:

Product name: Cutter Backyard Bug Control Outdoor Fogger
EPA reg. number: 478-101-121
Recommended product use: Insecticide - Crawling & Flying Bug, Aerosol

Details of the Supplier of the Safety Data Sheet:

Manufacturer/Supplier: Chemsico
Div. of United Industries Corp.
P.O. Box 142642
St. Louis, MO 63114

For product information: 1-800-917-5431
For medical emergencies: 1-800-767-9927

Section 2 - Hazards Identification

Conforms to Hazard Communication Standard 29 CFR 1910.1200.

GHS Classification of Substance or Mixture: Flammable aerosol - Category 2

GHS Label Elements:

Hazard pictogram(s):



Signal word:

WARNING

Hazard statements:

- Flammable aerosol
- Compressed gas – contents under pressure; may burst if heated
- Causes moderate eye irritation
- Causes skin irritation

Precautionary Statements:

- Contents under pressure.
- Do not use or store near heat or open flame.
- Do not puncture or incinerate container.
- Exposure to temperatures above 130°F may cause bursting.
- Wash hands thoroughly with soap and water after handling. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. If eye irritation persists: Get medical advice/attention.
- Wear protective gloves. If on skin: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

Section 3 - Composition / Information on Ingredients

Chemical Name	CAS#	Weight Percent
Tetramethrin	7696-12-0	0.20%

Phenothrin	26002-80-2	0.20%
Petroleum distillates, hydrotreated light	64742-47-8	5.00%
Light aromatic naptha	64742-95-6	1.40%
Isobutane	75-28-5	7.60%
Propane	74-98-6	5.90%

Note: Ingredients not identified are proprietary or non-hazardous. Values are not product specifications.

Section 4 - First Aid Measures

Eye contact:	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice.
Skin contact:	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
Inhalation:	No special requirements
Ingestion:	No special requirements
Note to Physician:	None
General advice:	If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Keep out of reach of children.

Section 5 - Fire Fighting Measures

Flammable properties:	Pressurized aerosol container
NFPA classification:	NFPA level 1 aerosol
Suitable extinguishing media:	Water fog, foam, CO ₂ , dry chemical
Unsuitable extinguishing media:	Not available
Specific hazards arising from the chemical:	Contents under pressure – container may burst in heat of fire.
Protective equipment for firefighters:	Firefighters should wear full protective clothing including self-contained breathing apparatus.
Hazardous combustion products:	None known
Explosion data:	Not available
Sensitivity to static discharge:	Not available
Personal precautions:	Keep unnecessary personnel away. Do not touch or walk through spilled material.

Section 6 - Accidental Release Measures

Personnel precautions:	Remove all sources of ignition. Wear personnel protective equipment as recommended in Section 8. Wash thoroughly after handling.
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For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials.

Environmental precautions: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Methods for containment and cleaning up: Stop leak if without risk. Move containers from spill area. Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with earth, sand or absorbent material swept up and placed in suitable, covered, and labeled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. Never return spills in original containers for re-use.

Section 7 - Handling and Storage

Precautions for safe handling: Put on appropriate personal protective equipment as recommended in Section 8. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C (122°F). Do not pierce or burn, even after use. Do not ingest. Avoid contact with skin, eyes and clothing. Avoid breathing vapor or mist. Use only with adequate ventilation. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous.

Storage: Store in a cool, dry area away from open flame. Do not store above 50°C (122°F).

Section 8 - Exposure Controls / Personal Protection

Exposure guidelines:

		Exposure Limits					
		OSHA PEL		ACGIH TLV		Supplier OEL	
Chemical name		ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³
Tetramethrin	TWA	None		None		None	
Phenothrin	TWA	None		None		None	
Petroleum distillates, hydrotreated light	TWA	Not listed		-----	200	Not listed	
Light aromatic naphtha	TWA	Not available		Not available		Not available	
Isobutane	TWA	Not established		1000	-----	Not established	
Propane	TWA	1000	1800	1000	-----	Not established	

Engineering controls: General ventilation normally adequate.

Personal protective equipment:

Eye/Face protection: Wear safety glasses with side shields if using product in large application. Use protective gloves when using this product.

Skin and body protection:	Wear protective gloves when using this product. Wash hands after application.
Respiratory protection:	None required
General hygiene considerations:	Handle in accordance with good industrial hygiene and safety practices. When using, do not eat or drink. Wash hands before breaks and immediately after handling the product.

Section 9 - Physical & Chemical Properties

Appearance:	Translucent
Color:	Off-white to light yellow
Physical state:	Pressurized liquid
Odor:	Slight solvent and/or fragrance
Odor threshold:	Not available
pH:	7.4 (liquid portion)
Melting point:	Not available
Freezing point:	32°F
Boiling point:	212°F
Flash point:	>200°F (liquid portion)
Flame Extension	0" (level 1 aerosol)
Flammability limits in air, lower, % by volume:	No data available
Flammability limits in air, upper, % by volume:	No data available
Vapor pressure:	No data available
Vapor density:	No data available
Relative density @ 20°C:	0.985 (liquid portion)
Octanol/water coefficient:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Solubility:	Miscible in water
Evaporation rate:	No data available
% Volatile organic compounds:	14.9

Section 10 - Chemical Stability & Reactivity Information

Reactivity

Conditions to avoid:	Do not mix with other chemicals.
Incompatible materials:	Avoid strong oxidizers.

Chemical stability

Product stability:	Stable under recommended storage conditions.
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Other

Hazardous decomposition products: None known
Possibility of hazardous reactions: Hazardous polymerization does not occur.

Section 11 - Toxicological Information

Primary eye irritation: Causes moderate eye irritation (EPA tox. category III)
Primary skin irritation: Causes skin irritation (EPA tox. category II)
Acute dermal: LD₅₀ > 5000 mg/kg (EPA tox. category IV)
Acute inhalation: LC₅₀ > 2 mg/L (EPA tox. category IV)
Acute oral: LD₅₀ > 5000 mg/kg (EPA tox. category IV)
Sensitization: Not a skin sensitizer.
Chronic effects/ Carcinogenicity: No data available
Mutagenicity: No data available
Reproductive effects: No data available
Teratogenicity: No data available
Ecotoxicity: No data available

Section 12 - Ecological Information

Environmental effects: No data available
Aquatic toxicity: Toxic to aquatic organisms.
Persistence / degradability: No data available
Bioaccumulation / accumulation: No data available
Partition coefficient: No data available
Mobility in environmental media: No data available
Chemical fate information: No data available

Section 13 - Disposal Considerations

Waste codes: Not available
Disposal instructions: Dispose in accordance with all applicable regulations.
Waste from residues / unused products: Not available
Contaminated packaging: Not available

Section 14 - Transportation Information

U.S. Department of Transportation (DOT): Aerosols, Flammable, 2.1, UN-1950, Limited Quantity
IATA: UN-1950, Aerosols, 2.1
IMDG: UN-1950, Aerosols, Flammable, 2, Limited Quantity

Section 15 - Regulatory Information

29 CFR 1910.1200 hazardous chemical Occupational Safety and Health Administration (OSHA): No

CERCLA (Superfund) reportable quantity: Not available

Hazard categories

Superfund Amendments and Reauthorization Act of 1986 (SARA):

Immediate Hazard	No
Delayed Hazard	No
Fire Hazard	No
Pressure Hazard	No
Reactivity Hazard	No

Section 302 extremely hazardous Substance: No

Section 311 hazardous chemical: No

Clean Air Act (CAA): Not available

Clean Water Act (CWA): Not available

State regulations:

FIFRA labeling: This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

Signal word: CAUTION

Precautionary statements:

Causes moderate eye irritation. Avoid contact with eyes. Do not get on skin or on clothing. Harmful if swallowed or inhaled. Do not breathe vapor or spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse.

This pesticide is extremely toxic to aquatic organisms, including fish and aquatic invertebrates. Do not apply directly to water. Do not contaminated water when cleaning equipment or disposing of equipment washwaters or rinsate. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds while bees are actively visiting the area.

Contents under pressure. Do not use or store near heat or open flame. Do not puncture or incinerate container. Exposure to temperatures above 130°F may cause bursting.

Notification status: All ingredients of this product are listed or are excluded from listing on the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

California Prop. 65: This product does not contain any chemicals known to the state of California to cause cancer, birth defects or any other reproductive harm.

Disclaimer: Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of

product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

Section 16 - Other Information

HMIS ratings:	Health Hazard 1	Fire Hazard 2	Reactivity 0
Item numbers:	HG-95704		
Formula number(s):	HG-21-0986		
Issue date:	2/17/2016		
Prepared by:	Spectrum Division of United Industries Corp. P.O. Box 142642 St. Louis, MO 63114-0642 (800) 242-1166		



SAFETY DATA SHEET

Stoko Refresh Moisturizing Foam Soap

1. Identification

Product identifier

Product name Stoko Refresh Moisturizing Foam Soap
Product number 29932-US,33200-US
Container size 800 ml,1100 ml

Details of the supplier of the safety data sheet

Supplier Deb USA, Inc.
 2815 Coliseum Centre Drive, Suite 600
 Charlotte, North Carolina 28217 USA
 800-248-7190

Manufacturer Deb-Stoko USA LLC
 2408 Doyle Street
 Greensboro NC 27408 USA

Emergency telephone number

Emergency telephone (800) 424-9300 CHEMTREC (North America) (703) 527-3887 CHEMTREC (International, call collect)

2. Hazard(s) identification

Classification of the substance or mixture

Physical hazards Not Classified
Health hazards Not Classified
Environmental hazards Not Classified

Label elements

Hazard statements NC Not Classified

3. Composition/information on ingredients

Mixtures

Inci Water (Aqua),Sodium Laureth Sulfate,Cocamidopropyl Betaine,PEG-200 Hydrogenated Glyceryl Palmate,PEG-7 Glyceryl Cocoate,Undecyleneamidopropyltrimonium Methosulfate,Citric Acid,Benzyl Alcohol,Methylchloroisothiazolinone,Methylisothiazolinone,Blue No. 1 (CI 42090),Fragrance (Parfum)

4. First-aid measures

Description of first aid measures

Inhalation Not relevant. Unlikely route of exposure as the product does not contain volatile substances.
Ingestion Rinse mouth thoroughly with water. Get medical attention if any discomfort continues.
Skin Contact Not relevant.

Stoko Refresh Moisturizing Foam Soap

Eye contact Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Continue to rinse for at least 15 minutes. Get medical attention promptly if symptoms occur after washing.

Most important symptoms and effects, both acute and delayed

Inhalation No specific symptoms known.

Ingestion No specific symptoms known.

Eye contact May cause temporary eye irritation.

Indication of immediate medical attention and special treatment needed

Notes for the doctor No specific recommendations.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.

Special hazards arising from the substance or mixture

Hazardous combustion products No known hazardous decomposition products.

Advice for firefighters

Protective actions during firefighting No specific firefighting precautions known.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with eyes.

Environmental precautions

Environmental precautions Not considered to be a significant hazard due to the small quantities used.

Methods and material for containment and cleaning up

Methods for cleaning up Flush away spillage with plenty of water. Avoid contamination of ponds or watercourses with washing down water. Avoid runoff into storm sewers and ditches which lead to waterways.

Reference to other sections For waste disposal, see Section 13.

7. Handling and storage

Precautions for safe handling

Usage precautions Avoid contact with eyes.

Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly closed original container.

Specific end uses(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

8. Exposure Controls/personal protection

Ingredient comments EU = Indicative Values according to Commission Directive 91/322/EEC.

Exposure controls

Stoko Refresh Moisturizing Foam Soap

Appropriate engineering controls	Not relevant.
Eye/face protection	Not required normally but wear eye protection if you are conducting an operation where there is a risk of this product getting in the eyes.
Hand protection	Not relevant.
Respiratory protection	Not relevant.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance	Liquid
Color	Blue.
Odor	Fragrant
pH	4.5 - 6.5 (10%)
Relative density	approx. 1.00

10. Stability and reactivity

Reactivity	There are no known reactivity hazards associated with this product.
Stability	Stable at normal ambient temperatures.
Possibility of hazardous reactions	Not known.
Conditions to avoid	There are no known conditions that are likely to result in a hazardous situation.
Materials to avoid	No specific material or group of materials is likely to react with the product to produce a hazardous situation.
Hazardous decomposition products	Does not decompose when used and stored as recommended.

11. Toxicological information

Information on toxicological effects

Toxicological effects	No data recorded.
Inhalation	No specific health hazards known.
Ingestion	May cause discomfort if swallowed.
Skin Contact	Skin irritation should not occur when used as recommended.
Eye contact	May cause temporary eye irritation.

12. Ecological Information

Ecotoxicity	Not regarded as dangerous for the environment.
Bioaccumulative potential	
Bio-Accumulative Potential	No data available on bioaccumulation.

Stoko Refresh Moisturizing Foam Soap

Mobility in soil

Mobility The product is miscible with water and may spread in water systems.

Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

Other adverse effects

Other adverse effects None known.

13. Disposal considerations

Waste treatment methods

General information When handling waste, the safety precautions applying to handling of the product should be considered.

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

14. Transport information

Road transport notes Not classified.

Rail transport notes Not classified.

Sea transport notes Not classified.

Air transport notes Not classified.

UN Number

Not applicable.

UN proper shipping name

Not applicable.

Transport hazard class(es)

Not applicable.

Packing group

Not applicable.

Environmental hazards

Environmentally Hazardous Substance

No.

Special precautions for user

Not applicable.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

15. Regulatory information

Stoko Refresh Moisturizing Foam Soap

Regulatory Status This product is manufactured and labeled in compliance with the Federal Food, Drug, and Cosmetic Act, and is exempt from the labeling requirements of the OSHA Hazard Communication Standard.

16. Other information

Revision comments	New SDS Software
Revision date	5/28/2015
Revision	3
Supersedes date	5/28/2015
SDS No.	20961
ACA HMIS Health rating.	Minimal Hazard. (0)
ACA HMIS Physical hazard rating.	Normally stable. (0)
ACA HMIS Flammability rating.	Will not burn. (0)

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

MATERIAL SAFETY DATA SHEET

This MSDS complies with OSHA'S Hazard Communication Standard 29 CFR 1910.1200 and OSHA Form 174

IDENTITY AND MANUFACTURER'S INFORMATION						
NFPA Rating: Health-1; Flammability-0; Reactivity-0; Special-0 Manufacturer's Name: BRODY CHEMICAL Address: 4825 S. 6200 W. SLC, UT. 84118			HMIS Rating: Health-1; Flammability-0; Reactivity-0; Personal Protection-A DOT Hazard Classification: NON-HAZARDOUS Identity (trade name as used on label): HAND SOAP/ BODY SOAP			
Date Prepared: 6-18-01 Prepared By: RW		MSDS Number: 5101 Revision: 13				
Information Calls: (801) 963-2436 EMERGENCY RESPONSE NUMBER: 1-800-424-9300			NOTICE: JUDGEMENT BASED ON INDIRECT TEST DATA			
SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION						
COMPONENTS-CHEMICAL NAMES AND COMMON NAMES (Hazardous Components 1% or greater; Carcinogens 0.1% or greater)		CAS Number	Approx. % wt.	OSHA PEL (ppm)	ACGIH TLV (ppm)	Carcinogen Ref. Source **
ETHOXYLATED NONYL PHENOL		25154-52-3	20	N/E	N/E	D
SECTION 2 - PHYSICAL/CHEMICAL CHARACTERISTICS						
Boiling Point: APPROX. 212 F			Specific Gravity (H2O=1): 1.02			
Vapor Pressure: PSIG @ 70°F (Aerosols): N/A			Vapor Pressure (Non-Aerosols)(mm Hg and Temperature): N/D			
Vapor Density (Air = 1): < 1			Evaporation Rate (H2O = 1): 1			
Solubility in Water: COMPLETE			Water Reactive: NO			
Appearance and Odor: CLEAR PINK LIQUID WITH LIGHT FLORAL FRAGRANCE. PH: 8.6						
SECTION 3 - FIRE AND EXPLOSION HAZARD DATA						
FLAMMABILITY as per USA FLAME PROJECTION TEST (aerosols) N/A		Auto Ignition Temperature N/A		Flammability Limits in Air by % in Volume: % LEL: N/A % UEL: N/A		
FLASH POINT AND METHOD USED (non-aerosols): NON-COMBUSTIBLE			EXTINGUISHER MEDIA: NON-COMBUSTIBLE. USE MEDIA SUITABLE FOR SURROUNDING FIRE.			
SPECIAL FIRE FIGHTING PROCEDURES: NON-COMBUSTIBLE. USE MEDIA SUITABLE FOR SURROUNDING FIRE.						
Unusual Fire & Explosion Hazards: NONE						
SECTION 4 - REACTIVITY HAZARD DATA						
STABILITY <input checked="" type="checkbox"/> STABLE <input type="checkbox"/> UNSTABLE			HAZARDOUS POLYMERIZATION <input type="checkbox"/> WILL <input checked="" type="checkbox"/> WILL NOT OCCUR			
Incompatibility (Mat. to avoid): DO NOT MIX WITH ACIDS, STRONG OXIDIZERS, OR STRONG REDUCING AGENTS.			Conditions to Avoid: EXCESSIVE HEAT.			
Hazardous Decomposition Products: OXIDES OF CARBON, PHOSPHORUS, AND NITROGEN. UNIDENTIFIED ORGANIC COMPOUNDS.						
SECTION 5 - HEALTH HAZARD DATA						
PRIMARY ROUTES OF ENTRY: <input type="checkbox"/> INHALATION <input type="checkbox"/> INGESTION <input type="checkbox"/> SKIN ABSORPTION <input type="checkbox"/> EYE <input checked="" type="checkbox"/> NOT HAZARDOUS						
ACUTE EFFECTS:						
Inhalation: CONTACT WITH MUCOUS MEMBRANES MAY CAUSE TEMPORARY IRRITATION.						
Eye Contact: MAY CAUSE TEMPORARY IRRITATION.			Skin Contact: NO ADVERSE EFFECTS.			
Ingestion: MAY CAUSE GASTROINTESTINAL IRRITATION.						
CHRONIC EFFECTS: NONE KNOWN.						
Medical Conditions Generally Aggravated by Exposure: NONE KNOWN.						
EMERGENCY FIRST AID PROCEDURES						
Eye Contact: IRRIGATE WITH WATER. IF IRRITATION PERSISTS, GET MEDICAL AID.						
Skin Contact: RINSE OFF WITH WATER.						
Inhalation: REMOVE TO FRESH AIR. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION.						
Ingestion: INDUCE VOMITING. DRINK LARGE AMOUNTS OF WATER. GET MEDICAL AID.						
SECTION 6 - CONTROL AND PROTECTIVE MEASURES						
Respiratory Protection (specify type): NONE REQUIRED.						
Protective Gloves: NONE REQUIRED.			Eye Protection: NONE REQUIRED.			
Ventilation Requirements: NORMAL VENTILATION IS ADEQUATE.						
Other Protective Clothing & Equipment: EYEWASH STATION AND SHOWER, IF DESIRED.						
Hygienic Work Practices: DO NOT EAT, DRINK, OR SMOKE IN WORK AREA.						
SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE						
Steps To Be Taken If Material Is Spilled Or Released: SOAK UP IN ABSORBENT MATERIAL. SHOVEL INTO PROPERLY LABELED NON-LEAKING CONTAINERS FOR PROPER DISPOSAL.						
Waste Disposal Methods: DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.						
Precautions To Be Taken In Handling & Storage: STORE IN ORIGINAL SHIPPING CONTAINERS. KEEP CLOSED WHEN NOT IN USE. PROTECT FROM FREEZING. SHELF LIFE: 1 YEAR.						
Other Precautions &/or Special Hazards: KEEP OUT OF REACH OF CHILDREN. READ AND FOLLOW LABEL DIRECTIONS.						

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind.

** Chemical Listed as Carcinogen or Potential Carcinogen. [a] NTP [b] IARC Monograph [c] OSHA [d] Not Listed [e] Animal Data Only



**SECTION 1
 CHEMICAL PRODUCT AND IDENTIFICATION**

United States Gypsum Company
 550 West Adams Street
 Chicago, Illinois 60661-3637
 A Subsidiary of USG Corporation

Product Safety: 1 (800) 507-8899
www.usg.com
 Version Date: January 1, 2011
 Version: 6

PRODUCT(S) DUROCK® Underlayment Board

**CHEMICAL FAMILY /
 GENERAL CATEGORY** Cement Board

SYNONYMS Water-durable, mold-resistant panel for tile and other finishes in both interior and exterior applications.

**SECTION 2
 HAZARD IDENTIFICATION**

**EMERGENCY OVERVIEW:
 ΔWARNING!**

This product is not expected to produce any unusual hazards during normal use. Exposure to high dust levels may irritate the skin, eyes, nose, throat, or upper respiratory tract. Portland cement is a nuisance dust. However, portland cement is strongly alkaline and can cause severe injury. Contact with eyes or skin can cause irritation and possible irreversible tissue damage, corrosion damage, chemical burning and corneal damage. Wear eye and skin protection.

POTENTIAL HEALTH EFFECTS (See Section 11 for more information)

ACUTE :

Inhalation	Exposure to dust generated during the handling or use of the product may cause temporary irritation to eyes, skin, nose, throat, and upper respiratory tract. Persons subjected to large amounts of this dust will be forced to leave area because of nuisance conditions such as coughing, sneezing and nasal irritation. Labored breathing may occur after excessive inhalation. If respiratory symptoms persist, consult physician. Inhalation of portland cement dust can irritate or burn the nose, throat, and mucous membrane of the upper respiratory tract. Signs of excessive exposure to this dust include shortness of breath and reduced pulmonary function. If respiratory symptoms persist, consult physician.
Eyes	Dust can cause temporary mechanical irritation of eyes. If burning, redness, itching, pain or other symptoms persist or develop, consult physician. Portland Cement is a strongly alkaline material and is very irritating to eyes. The extent of damage depends on duration of contact. Rapid response is very important to prevent significant damage to the eye (See Section 4, First Aid Measures). Portland cement can cause burns and cornea damage that may result in permanent damage with risk of blindness. Contact lenses should not be worn when working with portland cement. If burning, redness, itching, pain or other symptoms persist or develop, consult physician.
Skin	None known.
Ingestion	None known.

CHRONIC:

Inhalation	Exposures to respirable crystalline silica are not expected during the normal use of this product; however, actual levels must be determined by workplace hygiene testing. Prolonged and repeated exposure to airborne free respirable crystalline silica can result in lung disease (i.e., silicosis) and/or
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DUROCK® Underlayment Board

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	lung cancer. The development of silicosis may increase the risks of additional health effects. The risk of developing silicosis is dependent upon the exposure intensity and duration.
Eyes	None known.
Skin	None known.
Ingestion	None known.

TARGET ORGANS: Eyes, skin and respiratory system.

PRIMARY ROUTES OF ENTRY: Inhalation, eyes and skin contact.

CARCINOGENICITY CLASSIFICATION OF INGREDIENT(S) All substances listed are associated with the nature of the raw materials used in the manufacture of this product and are not independent components of the product formulation. All substances, if present, are at levels well below regulatory limits. See Section 11: Toxicology Information for detailed information.

MATERIAL	IARC	NTP	ACGIH	CAL- 65
Fiber Glass Scrim	3	2	A3	Not Listed
Crystalline silica	1	1	A2	Listed

IARC - International Agency for Research on Cancer: 1- Carcinogenic to humans; 2A – Probably carcinogenic to humans; 2B – Possibly carcinogenic to humans; 3 - Not classifiable as a carcinogen; 4 – Probably not a carcinogen

NTP – National Toxicology Program (Health and Human Services Dept., Public Health Service, NIH/NIEHS): 1- Known to be carcinogen; 2- Anticipated to be carcinogens

ACGIH – American Conference of Governmental Industrial Hygienists: A1 – Confirmed human carcinogen; A2 – Suspected human carcinogen; A3 – Animal carcinogen; A4 - Not classifiable as a carcinogen; A5 – Not suspected as a human carcinogen

CAL-65 – California Proposition 65 “Chemicals known to the State of California to Cause Cancer”

Respirable crystalline silica: IARC: Group 1 carcinogen, NTP: Known human carcinogen. The weight percent of crystalline silica given represents total quartz and not the respirable fraction. The weight percent of respirable silica has not been measured in this product.

POTENTIAL ENVIRONMENTAL EFFECTS: Portland cement is expected to be toxic to fish due to its high alkalinity (pH > 12). Discharge of large quantities directly into waterways would be expected to cause significant fish kills. (See Section 12 for more information.)

SECTION 3 COMPOSITION, INFORMATION ON INGREDIENTS

MATERIAL	WT%	CAS #
Portland Cement	10-30	65997-15-1
Expanded Clay Aggregate Or Expanded Shale	30-50	68334-37-2 68476-95-9
High Alumina Cement	0-10	65997-16-2
Fly Ash	10-20	68131-74-8
Gypsum (CaSO ₄ •2H ₂ O)	0-10	13397-24-5
Fiber Glass Scrim	1-5	65997-17-3
Soda Ash	0-2	497-19-8
Crystalline Silica	<5	14808-60-7 [^]

All ingredients of this product are included in the U.S. Environmental Protection Agency's Toxic Substances Control Act Chemical Substance Inventory and the Canadian Domestic Substances List (DSL).

[^]The weight percent for silica represents total quartz and not the respirable fraction.



**SECTION 4
FIRST AID MEASURES**

FIRST AID PROCEDURES

Inhalation	Remove to fresh air. Leave the area of exposure and remain away until coughing and other symptoms subside. Other measures are usually not necessary, however if conditions warrant, contact physician.
Eyes	In case of contact, do not rub or scratch your eyes. Due to portland cement content in this product, if eye contact occurs immediately flush eyes with copious amounts of water, occasionally lifting the lower and upper lids. Get medical attention immediately. Contact lenses should not be worn when working with this material.
Skin	Because of the potential of chemical burns due to the portland cement content of this product, flush exposed skin with copious amounts of water for at least 15 minutes depending on concentration, amount and duration of exposure. Wash with mild soap and water. Immediately remove all contaminated clothing, including footwear. Launder clothing before reuse. If irritation or pain persists get medical attention immediately. A commercially available hand lotion may be used to treat dry skin areas. If skin has become cracked, take appropriate action to prevent infection and promote healing. If irritation persists, consult physician.
Ingestion	Due to the alkalinity caused by the portland cement content of this product, get medical attention immediately.

MEDICAL CONDITIONS WHICH MAY BE AGGRAVATED: Pre-existing upper respiratory and lung diseases such as, but not limited to, bronchitis, emphysema and asthma. Pre-existing skin diseases such as, but not limited to, rashes and dermatitis. Some individuals with unusual hypersensitivity to hexavalent chromium (chromium+6) salts may exhibit an allergic response to portland cement, due to trace amounts of chromium in the portland cement. The response may appear in a variety of forms ranging from a mild rash to severe skin ulcers. Sensitized individuals may react immediately upon contact and others may first experience this effect after years of contact with portland cement products.

NOTES TO PHYSICIAN: Skin irritation may occur hours or days after the time of portland cement exposure. The main types of skin reactions seen are dermatitis of the hands, forearms, and feet seborrheic eczema, stasis dermatitis, and, occasionally exfoliative dermatitis.

**SECTION 5
FIRE FIGHTING MEASURES**

General Fire Hazards	None known		
Extinguishing Media	Water or use extinguishing media appropriate for surrounding fire.		
Special Fire Fighting Procedures	Wear appropriate personal protective equipment. See section 8.		
Unusual Fire/ Explosion Hazards	None known		
Hazardous Combustion Products	None known		
Flash Point	Not Applicable	Auto Ignition	Not Applicable
Method Used	Not Applicable	Flammability Classification	Not Applicable
Upper Flammable Limit (UFL)	Not Determined		
Lower Flammable Limit (LFL)	Not Determined	Rate of Burning	Not Applicable



**SECTION 6
ACCIDENTAL RELEASE MEASURES**

CONTAINMENT: Collect panels from spillage and if not damaged or contaminated by foreign material, panels may be reclaimed.

CLEAN-UP: Use normal clean up procedures. No special precautions.

DISPOSAL: Follow all local, state, provincial and federal regulations. Never discharge large releases directly into sewers or surface waters.

**SECTION 7
HANDLING AND STORAGE**

HANDLING: Avoid dust contact with eyes and skin. Wear the appropriate eye and skin protection against dust (See Section 8). Minimize dust generation and accumulation. Avoid breathing dust. Wear the appropriate respiratory protection against dust in poorly ventilated areas and if TLV is exceeded (see Sections 2 and 8). Use good safety and industrial hygiene practices. When moving board with a forklift or similar equipment, it is essential that the equipment be rated capable of handling the loads. The forks should always be long enough to extend completely through the width of the load. Fork spacing between supports should be one half the length of the panels or base being handled so that a maximum of 4' extends beyond the supports on either end. Cement panels are very heavy awkward loads posing the risk of severe back injury. Use proper lifting techniques.

STORAGE: Store in a cool, dry, ventilated area away from sources of heat, moisture and incompatibilities (see Section 10). Protect product from physical damage. Protect from weather and prevent exposure to sustained moisture. Storing board flat will prevent the potential safety hazards of the board falling over. However, in other situations, storing the board flat may cause a tripping hazard or exceed floor limit loads.

**SECTION 8
EXPOSURE CONTROLS/PERSONAL PROTECTION**

MATERIAL	WT%	TLV (mg/m ³)	PEL(mg/m ³)
Portland Cement	10-30	10	15 (T) / 5 (R)
Expanded Clay Aggregate	30-50	(NE)	(NE)
Or Expanded Shale		(NE)	(NE)
High Alumina Cement	0-10	10 (T)	10 (T) / 5 (R)
Fly Ash	10-20	10	15 (T) / 5 (R)
Gypsum (CaSO4•2H2O)	0-10	10	15 (T) / 5 (R)
Fiber Glass Scrim	1-5	1 f/cc (R) *	15 (T) / 5 (R)
Soda Ash	0-2	10 (T)	15 (T) / 5 (R)
Crystalline Silica	<5	0.025 (R)	0.1 (R)

(T)-Total; (R)-Respirable; (NE)-Not Established; (C)-Ceiling; (STEL)-Short-term exposure limit
(F)-Fume; (Du)-Dust; (M)-Mist
ppm-part per million; f/cc-fiber per cubic centimeter; mppcf- million particles per cubic foot



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*ACGIH: 1 fiber/cubic centimeter air for fibers longer than 5 micrometers and thinner than 3 micrometers.

ENGINEERING CONTROLS: Provide ventilation sufficient to control airborne dust levels. If user operations generate airborne dust, use ventilation to keep dust concentrations below permissible exposure limits. Where general ventilation is inadequate, use process enclosures, local exhaust ventilation, or other engineering controls to control dust levels below permissible exposure limits.

RESPIRATORY PROTECTION: Wear a NIOSH/MSHA-approved respirator equipped with particulate cartridges when dusty in poorly ventilated areas, and if TLV is exceeded. A respiratory program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. If engineering controls are not possible, wear a properly fitted NIOSH/MSHA-approved particulate respirator.

OTHER PERSONAL PROTECTIVE EQUIPMENT:

Eye/Face	Due to portland cement content in this product, wear safety glasses with side shields or goggles for eye protection to avoid irritation and severe chemical burns of the eye. Facilities storing or using this material should be equipped with an adequate number of eyewash facilities and safety showers. Contact lenses should not be worn when working with portland cement.
Skin	Wear gloves and protective clothing to prevent repeated or prolonged skin contact.
General	Selection of Personal Protective Equipment will depend on environmental working conditions and operations.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Gray	Vapor Density (Air = 1)	Not Applicable
Odor	Low to no odor	Specific Gravity (H ₂ O = 1)	1.2
Odor Threshold	Not Determined	Solubility in water (g/100g)	Not Determined
Physical State	Solid (board)	Partition Coefficient	Not Applicable
pH @ 25 ° C	~12	Auto-ignition Temp	Not Determined
Melting Point	Not Applicable	Decomposition Temp	Not Determined
Freezing Point	Not Applicable	Viscosity	Not Applicable
Boiling Point	Not Applicable	Particle Size	Varies
Flash Point	Not Applicable	Bulk Density	~ 2-3 lb/ft ² / 9-15 kg/m ²
Evaporation Rate (BuAc = 1)	Not Applicable	Molecular Weight	Mixture
Upper Flammable Limit (UFL)	Not Determined	VOC Content	Zero g/L
Lower Flammable Limit (LFL)	Not Determined	Percent Volatile	Zero
Vapor Pressure (mm Hg)	Not Applicable		

SECTION 10 CHEMICAL STABILITY AND REACTIVITY

STABILITY	Stable.
CONDITIONS TO AVOID	Contact with incompatibles (see below).



INCOMPATIBILITY	None known.
HAZARDOUS POLYMERIZATION	None known.
HAZARDOUS DECOMPOSITION	None known.

**SECTION 11
TOXICOLOGICAL INFORMATION**

ACUTE EFFECTS: None known.

CHRONIC EFFECTS / CARCINOGENICITY:

Crystalline Silica: Exposures to respirable crystalline silica are not expected during the normal use of this product; however, actual levels must be determined by workplace hygiene testing. The weight percent of respirable crystalline silica may not have been measured in this product. Prolonged and repeated exposure to airborne free respirable crystalline silica can result in lung disease (i.e., silicosis) and/or lung cancer. The development of silicosis may increase the risks of additional health effects. Smoking in combination with silica exposures increases the risk of cancer. The risk of developing silicosis is dependent upon the exposure intensity and duration.

In June, 1997, IARC classified crystalline silica (quartz and cristobalite) as a human carcinogen. In making the overall evaluation, the IARC Working Group noted that carcinogenicity in humans was not detected in all industrial circumstances studied. Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs.

IARC states that crystalline silica inhaled in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (Group 1).

Portland Cement: NIOSH conducted a portland cement worker study, "The Mortality of U.S. Portland Cement and Quarry Workers", March 1985, which found "There is no excess mortality from all causes of death, lung cancer, non-malignant respiratory disease, or ischemic heart disease" among the workers studied.

**SECTION 12
ECOLOGICAL INFORMATION**

ENVIRONMENTAL TOXICITY: This product has no known adverse effect on ecology. Portland cement is expected to be toxic to fish due to its high alkalinity (pH > 12). Discharge of large quantities directly into waterways would be expected to cause significant fish kills.

Ecotoxicity value	Not determined.
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**SECTION 13
DISPOSAL CONSIDERATIONS**

WASTE DISPOSAL METHOD: Dispose of material in accordance with federal, state, and local regulations. Never discharge directly into sewers or surface waters. Consult with environmental regulatory agencies for guidance on acceptable disposal practices.



**SECTION 14
TRANSPORT INFORMATION**

U.S. DOT INFORMATION: Not a hazardous material per DOT shipping requirements. Not classified or regulated.

Shipping Name	Same as product name.
Hazard Class	Not classified.
UN/NA #	None. Not classified.
Packing Group	None.
Label (s) Required	Not applicable.
GGVSec/MDG-Code	Not classified.
ICAO/IATA-DGR	Not applicable.
RID/ADR	None.
ADNR	None.

**SECTION 15
REGULATORY INFORMATION**

UNITED STATES REGULATIONS

All ingredients of this product are included in the U.S. Environmental Protection Agency's Toxic Substances Control Act Chemical Substance Inventory.

MATERIAL	WT%	3 0 2	3 0 4	3 1 3	CERCLA	CAA Sec. 112	RCRA Code
Portland Cement	10-30	NL	NL	NL	NL	NL	NL
Expanded Clay Aggregate Or Expanded Shale	30-50	NL	NL	NL	NL	NL	NL
High Alumina Cement	0-10	NL	NL	NL	NL	NL	NL
Fly Ash	10-20	NL	NL	NL	NL	NL	NL
Gypsum (CaSO4•2H2O)	0-10	NL	NL	NL	NL	NL	NL
Fiber Glass Scrim	1-5	NL	NL	NL	NL	NL	NL
Soda Ash	0-2	NL	NL	NL	NL	NL	NL
Crystalline Silica	<5	NL	NL	NL	NL	NL	NL

Key: NL = Not Listed

SARA Title III Section 302 (EPCRA) Extremely Hazardous Substances: Threshold Planning Quantity (TPQ)

SARA Title III Section 304 (EPCRA) Extremely Hazardous Substances: Reportable Quantity (RQ)

SARA Title III Section 313 (EPCRA) Toxic Chemicals: X= Subject to reporting under section 313

CERCLA Hazardous Substances: Reportable Quantity (RQ)

CAA Section 112 (r) Regulated Chemicals for Accidental Release Prevention: Threshold Quantities(TQ)

RCRA Hazardous Waste: RCRA hazardous waste code

CANADIAN REGULATIONS



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This product has been classified in accordance with the hazard criteria of Controlled Product regulations and the MSDS contains all the information required by the Controlled Products Regulations. All ingredients of this product are included in the Canadian Domestic Substances List (DSL).

MATERIAL	WT%	IDL Item #	WHMIS Classification
Portland Cement	10-30	Not Listed	E
Expanded Clay Aggregate	30-50	Not Listed	Not Listed
Or Expanded Shale		Not Listed	Not Listed
High Alumina Cement	0-10	Not Listed	Not Listed
Fly Ash	10-20	Not Listed	Not Listed
Gypsum (CaSO4•2H2O)	0-10	Not Listed	Not Listed
Fiber Glass Scrim	1-5	Not Listed	Not Listed
Soda Ash	0-2	Not Listed	Not Listed
Crystalline Silica	<5	1406	D2A

IDL Item#: Canadian Hazardous Products Act – Ingredient Disclosure List Item #

WHMIS Classification: Workplace Hazardous Material Information System

Risk and Safety Phrases defined by European Union Directive 67/548/EEC (Annex III and IV)

R-Phrase(s): R49

S-Phrase(s): S22

SECTION 16 OTHER INFORMATION

Label Information

Δ WARNING!

Dust can be corrosive to eyes, skin, and respiratory tract. Contact can cause severe chemical burns. Avoid breathing dust. Dust can contain silica. Prolonged and repeated breathing of silica dust can cause lung damage and/or cancer. Wear eye, skin and respiratory protection as necessary per working conditions. If eye contact occurs flush immediately with water for 30 minutes. Do not ingest. If ingested, call physician. If cutting board with a power tool, use a wet or vacuum saw to reduce the amount of dust generated. Panels are heavy and can fall over, causing serious injury or death. Avoid creating a tripping hazard and do not exceed floor limit loads. Dust can contain silica. Prolonged and repeated breathing of silica dust can cause lung damage and/or cancer. Product safety information: 800-507-8899 or usg.com. Customer Service: 800 USG-4-YOU (800 874-4968). KEEP OUT OF REACH OF CHILDREN.

INFORMATION FOR HANDLING AND IDENTIFICATION OF CHEMICAL HAZARDS

NFPA Ratings:		HMIS Ratings:	<table border="1"> <tbody> <tr> <td>HEALTH</td> <td>*</td> <td>1</td> </tr> <tr> <td>FLAMMABILITY</td> <td></td> <td>0</td> </tr> <tr> <td>PHYSICAL HAZARD</td> <td></td> <td>0</td> </tr> <tr> <td>PERSONAL PROTECTION</td> <td></td> <td>E</td> </tr> </tbody> </table>	HEALTH	*	1	FLAMMABILITY		0	PHYSICAL HAZARD		0	PERSONAL PROTECTION		E	0 = Minimal Hazard
HEALTH		*		1												
FLAMMABILITY				0												
PHYSICAL HAZARD				0												
PERSONAL PROTECTION		E														
Health: 1	Health: 1	1 = Slight Hazard														
Fire: 0	Fire: 0	2 = Moderate Hazard														
Reactivity: 0	Reactivity: 0	3 = Serious Hazard														
			4 = Severe Hazard													

E – Safety glasses, gloves and dust respirator; * - Contains silica

Key/Legend

ANSI American National Standards Institute



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ACGIH	American Conference of Governmental Industrial Hygienists
CAA	Clean Air Act
CAS	Chemical Abstracts Service (Registry Number)
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act of 1980
CFR	Code of Federal Regulations
DOT	United States Department of Transportation
DSL	Canadian Domestic Substances List
EPA	United States Environmental Protection Agency
EPCRA	Emergency Planning & Community Right-to-know Act
HMIS	Hazardous Materials Identification System
IARC	International Agency for Research on Cancer
MSHA	Mine Safety and Health Administration
NDSL	Canadian Non-Domestic Substances List
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety and Health
OSHA	Occupational Health and Safety Administration
PEL	Permissible Exposure Limit
PPE	Personal Protection Equipment
RCRA	Resource Conservation and Recovery Act
SARA	Superfund Amendments and Reauthorization Act of 1986
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act
UN/NA#	United Nations/North America number
WHMIS	Workplace Hazardous Material Information System

Prepared by:
Product Safety
USG Corporation
550 West Adams Street
Chicago, IL 60661-3637

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for his/her own particular use.

END



Electro Tape Specialties, Inc.

P.O. BOX 1014
13221 BYRD DRIVE
ODESSA, FLORIDA 33556
TELEPHONE: (813) 920-2218
FAX: (813) 920-2272 TOLL FREE (800) 999-2218

MATERIAL SAFETY DATA SHEET (MSDS)

#65

SECTION I – PRODUCT IDENTIFICATION

Vinyl Electrical Tape
Formula (Chemical Family): Pressure Adhesive Tapes
DOT Hazard Class: Non-Required

SECTION II – COMPONENTS

<u>Ingredients</u>	<u>Percent %</u>
Polyvinyl Chloride	57-61
Plasticizer	28-32
Pigments	0.5-2
Filler Additives	1-3
Lead Compound	1000-2000 PPM
Rubber Adhesive	9-12
Solvent	<0.1

SECTION III – PHYSICAL / CHEMICAL DATA

Boiling Point	N/A	Melting Point	N/A
Solubility in Water	Non-Soluble	Appearance & Odor	Sheet Odorless
Specific Gravity	N/A	pH	N/A

SECTION IV – HEALTH HAZARD DATA

Routes of Entry: Inhalation: Not Known Skin: Very Slight Irritation Ingestion: Irritation
Health Hazards (Acute and Chronic): Not Known
Signs and Symptoms of Exposure: Not Known
Emergency and First Aid Procedures: If irritation persists from processing vapors or decomposition products, remove to fresh air. If breathing has stopped, apply artificial respiration, and contact a physician.

SECTION V – REACTIVITY DATA

Stability Stable
Conditions to Avoid: Open flame, heat, spark and any other sources of ignition.
Incompatibility (Material to Avoid): Not Known
Hazardous Decomposition or Byproduct: Combustion will produce CO₂, CO, NO_x or other chemical.
Hazardous Polymerization: Will Not Occur.

SECTION VI – FIRE AND EXPLOSION HAZARD DATA

Flash Point: N/A Lower Explosion Limit: N/A
Extinguishing Media: Carbon dioxide gas, dry chemical, regular foam, water.
Special Fire Fighting Procedures: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
Unusual Fire And Explosion Hazards: Any chemical can be forced to burn by continuous application or intense heat.

SECTION VII – SPECIAL PROTECTION INFORMATION

Respiratory Protection: Not Needed
Ventilation: An ordinary ventilated room.
Protective Gloves: Not needed unless material is heated.
Eye Protection: Not Needed.
Other Protective Clothing or Equipment: None.

SECTION VIII – PRECAUTIONS FOR SAFE HANDLING USE

Steps To Be Taken If Material Is Released Or Spilled: Maybe land filled.
Waste Disposal Method: Land filled in accordance with local and state regulation.
Precautions To Be Taken In Handling And Storage: Use with adequate ventilation, keep away from heat, sparks and open flame.
Other Precautions: None.

PLEASE NOTE: If you repackage or otherwise redistribute this product to industrial customers, a notice similar to this one should be sent to that customer.

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : ENDUST (AEROSOL)

Other means of identification : not applicable

Recommended use : Cleaning product

Restrictions on use : Reserved for industrial and professional use.

Product dilution information : Product is sold ready to use.

Company : Ecolab Inc.
370 N. Wabasha Street
St. Paul, Minnesota USA 55102
1-800-352-5326

Emergency telephone : 1-800-328-0026 (US/Canada), 1-651-222-5352 (outside US)

Issuing date : 06/02/2014

SECTION 2. HAZARDS IDENTIFICATION
GHS Classification

Flammable aerosols : Category 2

Gases under pressure : Compressed gas

Skin sensitization : Category 1

Specific target organ systemic toxicity - single exposure : Category 3 (Central nervous system)

GHS Label element

Hazard pictograms : 

Signal Word : Warning

Hazard Statements : Flammable aerosol.
Contains gas under pressure; may explode if heated.
May cause an allergic skin reaction.
May cause drowsiness or dizziness.

Precautionary Statements : **Prevention:**
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Avoid breathing dust/fume/ gas/ mist/ vapors/ spray. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves. Intentional misuse by deliberate inhalation may be harmful or fatal.

Response:
IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell. If skin irritation or rash occurs: Get medical advice/ attention.

SAFETY DATA SHEET

ENDUST (AEROSOL)

Wash contaminated clothing before reuse.

Storage:

Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

Disposal:

Dispose of contents/ container to an approved waste disposal plant.

Other hazards : None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture : Mixture

Chemical Name	CAS-No.	Concentration (%)
white mineral oil, petroleum	8042-47-5	30 - 60
distillates (petroleum), hydrotreated light	64742-47-8	10 - 30
Aliphatic hydrocarbons	106-97-8	10 - 30
terpenes and terpenoids, sweet orange-oil	68647-72-3	5 - 10
propane	74-98-6	5 - 10

SECTION 4. FIRST AID MEASURES

In case of eye contact : Rinse with plenty of water.

In case of skin contact : Wash off immediately with plenty of water for at least 15 minutes. Use a mild soap if available. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

If swallowed : Rinse mouth. Get medical attention if symptoms occur.

If inhaled : Remove to fresh air. Treat symptomatically. Get medical attention if symptoms occur.

Protection of first-aiders : If potential for exposure exists refer to Section 8 for specific personal protective equipment.

Notes to physician : Treat symptomatically.

See toxicological information (Section 11)

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media : High volume water jet

Specific hazards during fire fighting : Pressurized container: May burst if heated.
Flammable aerosols

Hazardous combustion products : Decomposition products may include the following materials:
Carbon oxides
nitrogen oxides (NOx)
Sulfur oxides
Oxides of phosphorus

Special protective equipment : Use personal protective equipment.

SAFETY DATA SHEET

ENDUST (AEROSOL)

for fire-fighters

Specific extinguishing methods : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.

Environmental precautions : Do not allow contact with soil, surface or ground water.

Methods and materials for containment and cleaning up : Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Do not get in eyes, on skin, or on clothing. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Use only with adequate ventilation. Contents under pressure. Do not puncture. Wash hands thoroughly after handling.

Conditions for safe storage : Keep in a cool, well-ventilated place. Keep out of reach of children. Keep container tightly closed. Store in suitable labeled containers.

Storage temperature : 0 °C to 40 °C

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Ingredients	CAS-No.	Form of exposure	Permissible concentration	Basis
white mineral oil, petroleum	8042-47-5	TWA (Mist)	5 mg/m ³	NIOSH REL
		STEL (Mist)	10 mg/m ³	NIOSH REL
		TWA (Mist)	5 mg/m ³	OSHA Z1
distillates (petroleum), hydrotreated light	64742-47-8	TWA	500 ppm 2,000 mg/m ³	OSHA Z1
		TWA	200 mg/m ³	ACGIH
Aliphatic hydrocarbons	106-97-8	TWA	800 ppm 1,900 mg/m ³	NIOSH REL
		TWA	1,000 ppm	ACGIH
		TWA	1,000 ppm	ACGIH
propane	74-98-6	TWA	1,000 ppm	ACGIH
		TWA	1,000 ppm 1,800 mg/m ³	NIOSH REL
		TWA	1,000 ppm 1,800 mg/m ³	OSHA Z1

Engineering measures : Effective exhaust ventilation system. Maintain air concentrations

SAFETY DATA SHEET

ENDUST (AEROSOL)

below occupational exposure standards.

Personal protective equipment

- Eye protection : No special protective equipment required.
- Hand protection : Wear the following personal protective equipment:
Standard glove type.
Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
- Skin protection : No special protective equipment required.
- Respiratory protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Wash face, hands and any exposed skin thoroughly after handling.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : aerosol
- Color : white
- Odor : Floral
- pH : not applicable
- Flash point : not applicable, Sustains combustion
- Odor Threshold : no data available
- Melting point/freezing point : no data available
- Initial boiling point and boiling range : < 35 °C
- Evaporation rate : no data available
- Flammability (solid, gas) : no data available
- Upper explosion limit : no data available
- Lower explosion limit : no data available
- Vapor pressure : no data available
- Relative vapor density : no data available
- Relative density : 0.84 - 0.86
- Water solubility : soluble
- Solubility in other solvents : no data available
- Partition coefficient: n-octanol/water : no data available
- Autoignition temperature : no data available
- Thermal decomposition : no data available
- Viscosity, kinematic : no data available
- Explosive properties : no data available
- Oxidizing properties : no data available

SAFETY DATA SHEET

ENDUST (AEROSOL)

Molecular weight	:	no data available
VOC	:	no data available
Heat of combustion	:	10.65 kJ/g

SECTION 10. STABILITY AND REACTIVITY

Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	No dangerous reaction known under conditions of normal use.
Conditions to avoid	:	None known.
Incompatible materials	:	None known.
Hazardous decomposition products	:	Decomposition products may include the following materials: Carbon oxides nitrogen oxides (NOx) Sulfur oxides Oxides of phosphorus

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure	:	Eye contact Skin contact
--	---	-----------------------------

Potential Health Effects

Eyes	:	Health injuries are not known or expected under normal use.
Skin	:	May cause allergic skin reaction.
Ingestion	:	Health injuries are not known or expected under normal use.
Inhalation	:	Inhalation may cause central nervous system effects. Intentional misuse by deliberate inhalation may be harmful or fatal.
Chronic Exposure	:	Health injuries are not known or expected under normal use.

Experience with human exposure

Eye contact	:	No symptoms known or expected.
Skin contact	:	Redness, Irritation, Allergic reactions
Ingestion	:	No symptoms known or expected.
Inhalation	:	Dizziness, Drowsiness

Toxicity

Acute oral toxicity	:	no data available
Acute inhalation toxicity	:	no data available
Acute dermal toxicity	:	no data available

SAFETY DATA SHEET

ENDUST (AEROSOL)

Skin corrosion/irritation	: no data available
Serious eye damage/eye irritation	: no data available
Respiratory or skin sensitization	: no data available
Carcinogenicity	
IARC	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
OSHA	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
NTP	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
Reproductive effects	: no data available
Germ cell mutagenicity	: no data available
Teratogenicity	: no data available
STOT-single exposure	: no data available
STOT-repeated exposure	: no data available
Aspiration toxicity	: no data available

Ingredients

Acute oral toxicity	: white mineral oil, petroleum LD50 rat: > 5,000 mg/kg
	distillates (petroleum), hydrotreated light LD50 rat: > 5,000 mg/kg

Ingredients

Acute inhalation toxicity	: Aliphatic hydrocarbons 4 h LC50 rat: 280000 ppm
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SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Environmental Effects	: Toxic to aquatic life with long lasting effects.
-----------------------	--

Product

Toxicity to fish	: no data available
Toxicity to daphnia and other aquatic invertebrates	: no data available
Toxicity to algae	: no data available

Ingredients

Toxicity to fish	: white mineral oil, petroleum 96 h LC50 Fish: > 100 mg/l
	distillates (petroleum), hydrotreated light 96 h LC50: > 1,000 mg/l

SAFETY DATA SHEET

ENDUST (AEROSOL)

Aliphatic hydrocarbons
96 h LC50 Fish: 22.03 mg/l

Ingredients

Toxicity to daphnia and other aquatic invertebrates : distillates (petroleum), hydrotreated light
72 h EC50: > 1,000 mg/l

Ingredients

Toxicity to algae : distillates (petroleum), hydrotreated light
48 h EC50: > 1,000 mg/l

Persistence and degradability

no data available

Bioaccumulative potential

no data available

Mobility in soil

no data available

Other adverse effects

no data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods : The product should not be allowed to enter drains, water courses or the soil. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.

Disposal considerations : Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

Land transport (DOT)

UN number : 1950
Description of the goods : Aerosols
Class : 2.1
Environmentally hazardous : no

Sea transport (IMDG/IMO)

UN number : 1950
Description of the goods : AEROSOLS
Class : 2.1
Marine pollutant : no

SECTION 15. REGULATORY INFORMATION

SAFETY DATA SHEET

ENDUST (AEROSOL)

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Fire Hazard
Acute Health Hazard
Sudden Release of Pressure Hazard

SARA 302 : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 : SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Prop 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

The ingredients of this product are reported in the following inventories:

1907/2006 (EU) :
not determined

Switzerland. New notified substances and declared preparations :
not determined

United States TSCA Inventory :
On TSCA Inventory

Canadian Domestic Substances List (DSL) :
All components of this product are on the Canadian DSL.

Australia Inventory of Chemical Substances (AICS) :
On the inventory, or in compliance with the inventory

New Zealand. Inventory of Chemical Substances :
On the inventory, or in compliance with the inventory

Japan. ENCS - Existing and New Chemical Substances Inventory :
not determined

Japan. ISHL - Inventory of Chemical Substances (METI) :
not determined

Korea. Korean Existing Chemicals Inventory (KECI) :
On the inventory, or in compliance with the inventory

Philippines Inventory of Chemicals and Chemical Substances (PICCS) :
On the inventory, or in compliance with the inventory

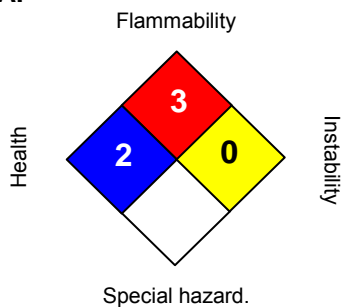
China. Inventory of Existing Chemical Substances in China (IECSC) :
On the inventory, or in compliance with the inventory

SAFETY DATA SHEET

ENDUST (AEROSOL)

SECTION 16. OTHER INFORMATION

NFPA:



HMIS III:

HEALTH	2*
FLAMMABILITY	3
PHYSICAL HAZARD	2

0 = not significant, 1 = Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

Issuing date : 06/02/2014
Version : 1.0
Prepared by : Regulatory Affairs

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

MATERIAL SAFETY DATA SHEET**MSDS # 81800****Section One: Identification**

Sanford, L.P.
2707 Butterfield Road
Oak Brook, IL 60523 USA
800-323-0749 or 630-481-2000

EMERGENCY MEDICAL NUMBER:

888-786-0972

Product Name: Expo White Board Cleaner, Expo Original Cleaner

Colors: Clear

Sanford is a member of The Art and Creative Materials Institute, Inc. This product is certified by the Institute to be labeled in accordance with the voluntary chronic hazard labeling standard ASTM D-4236 and is labeled with the CL (Cautionary Label) Seal. Products bearing the CL Seal are certified to be properly labeled in a program of toxicological evaluation by a medical expert for any known health risks and with information on safe and proper use of these materials. Conforms to ASTM D-4236.

Section Two: Hazard Identification

WARNING: COMBUSTIBLE. VAPOR HARMFUL. MAY BE HARMFUL IF SWALLOWED, OR BY SKIN CONTACT. EYE IRRITANT. CONTAINS: 2-BUTOXYETHANOL, ISOPROPYL ALCOHOL. PRECAUTIONS: Avoid ingestion. Keep away from eyes. Do not store or use near heat or flame. Use only with adequate ventilation. KEEP OUT OF REACH OF CHILDREN. FIRST AID: If eye contact occurs, rinse with tap water for 5-10 minutes. If irritation persists, seek medical care. If skin contact occurs, wash with soap and water for 5 minutes. If swallowed, get prompt medical attention. For further health information, contact a poison control center or call 888-786-0972.

Section Three: Composition

Water, 2-Butoxyethanol (111-76-2), isopropyl alcohol (67-63-0)

Section Four: First Aid Measures

Inhalation: If symptoms occur, move to fresh air.

Skin Contact: If skin contact occurs, wash with soap and water for 5 minutes.

Eye Contact: If eye contact occurs, rinse with tap water for 5-10 minutes. If irritation persists, seek medical care.

Ingestion: If swallowed, get prompt medical attention.

Section Five: Fire Fighting Measures

Flash Point: 105F (TCC)

Flammability Limits (% by volume): Lower: 2.2% (isopropyl alcohol) Upper: Not available

Extinguishing Media: As appropriate for surrounding area.

Special Fire Fighting Measures: None

Unusual Fire and Explosion Hazards: None

Section Six: Accidental Release Measures

In Case of Spill or Accidental Release: Wipe up with absorbent material.

Section Seven: Handling and Storage

Handling: Use in a well-ventilated area. Aim nozzle away from eyes.

Storage: Do not store or use near heat or flame.

Section Eight: Exposure Controls and Personal Protection

Eye Protection: None under normal use conditions. Avoid prolonged eye contact.

Clothing: None under normal use conditions.

Respirator: None under normal use conditions.

Ventilation: None under normal use conditions. Use in a well ventilated area.

Section Nine: Physical and Chemical Properties

For product unless otherwise specified:

Boiling Point: 180F (isopropyl alcohol)
 Specific Gravity: 0.96
 Vapor Pressure: 33 mg Hg (isopropyl alcohol)
 Solubility in Water: complete
 Evaporation Rate: Not available
 Appearance/Odor: Clear liquid; alcoholic odor

Section Ten: Stability and Reactivity

Stability: Stable
 Conditions to Avoid: None known
 Chemical Incompatibility: Strong oxidizers, acids, isocyanates
 Hazardous Decomposition: None known
 Hazardous Polymerization: Will not occur.

Section Eleven: Toxicological Information

See Section Two: Hazard Identification for any hazards

Section Twelve: Ecological Information

Not available

Section Thirteen: Disposal Considerations

Dispose in accordance with Federal, State, and Local Regulations.

Section Fourteen: Transport Information

DOT: ORM-D Consumer Commodity
 IATA: Consumer Commodity, 9, ID8000, packing instruction 910
 IMO: Flammable Liquid, n.o.s. (isopropanol), 3, UN1993, PGIII (105F TCC), Ltd. Qtys, EmS#3-07

Section Fifteen: Regulatory Information

TSCA: The product listed on this Material Safety Data Sheet is not listed on the Toxic Substances Control Act Inventory. All ingredients used to manufacture this product are listed on the TSCA Inventory

Section Sixteen: Other Information

HMIS Code	
Health	2
Flammability	2
Reactivity	0
Personal Protection	H

0=Minimal / 4 = Severe

Sanford has been advised by Counsel that the OSHA Hazard Communication Standard does not apply to the Sanford Product described in this Material Safety Data Sheet. The reason for the exemption is contained in 29 CFR 1910.1200(b)(6)(ix) as amended July 1, 2006 per the Code of Federal Regulations. The information contained in this MSDS is forwarded to you for your information, but is not meant to imply that the product is covered by the Hazard Communication Standard nor is this MSDS meant to comply with all requirements of the Hazard Communication Standard.

Reference Product Images



This product is no longer in production

MSDS: according to the REACH regulation
1907/2006 Annex II

Reference: RQ0814331
PA: PA00067464_NC
Date of issue SDS: 27/04/2010
Valid until superseded

1. Identification of the substance/preparation and of the company/undertaking

1.1 Identification of the substance or preparation

Name : Febreze Professional Air Refresher Spring

1.2 Use of the substance/preparation

Main use category : Consumer use

Type of product (BIG) : Preparation

1.3 Company identification

2. Hazards identification

The information in this section is applicable on all mentioned identified uses of this SDS.

Not classified as dangerous according to the criteria of directive(s) 67/548/EEC and/or 1999/45/EC

Symbol : -

R-phrases : Not classified as dangerous according to the criteria of directive(s) 67/548/EEC and/or 1999/45/EC

Fire hazard : No fire hazard
Non combustible

3. Composition/Information on ingredients

There are no classified ingredients in accordance with 67/548/EEC or 1999/45/EEC.

4. First-aid measures

The information in this section is applicable on all mentioned identified uses of this SDS.

4.1 Effects and symptoms

Symptoms/injuries after eye contact : Slight irritation

Symptoms/injuries after skin contact : Contact during a long period may cause light irritation

MSDS: according to the REACH regulation
1907/2006 Annex II

Reference: RQ0814331
PA: PA00067464_NC
Date of issue SDS: 27/04/2010
Valid until superseded

Symptoms/injuries after inhalation : May cause respiratory irritation
Symptoms/injuries after ingestion : Gastrointestinal complaints

4.2 First Aid Measures

First-aid measures after inhalation : Go into open air and ventilate suspected area - Respiratory problems: consult a doctor/medical service
First-aid measures after skin contact : Rinse immediately with plenty of water - Take victim to a doctor if irritation persists
First-aid measures after eye contact : Rinse immediately with plenty of water - Take victim to a doctor if irritation persists
First-aid measures after ingestion : Give nothing or little to drink - Do not induce vomiting - Immediately consult a doctor/medical service

5. Fire-fighting measures

The information in this section is applicable on all mentioned identified uses of this SDS.

Extinguishing agents - fire fighting instructions :
dry chemical powder, alcohol-resistant foam, carbon dioxide (CO₂)
No specific firefighting instructions required
Fire hazard : No fire hazard
Non combustible
Reactivity hazard : Not applicable

6. Accidental release measures

The information in this section is applicable on all mentioned identified uses of this SDS.

General measures : Consumer products ending up down the drain after use. - Prevent spreading in sewers - Prevent soil and water pollution
Disposal : Consumer products ending up down the drain after use. - Disposal must be done according to official regulations. - Liquid spill: take up in non-combustible absorbent material - Shovel into suitable and closed container for disposal - Large spills: contain released substance, pump into suitable containers

7. Handling and storage

Handling and storage information is applicable on all mentioned identified uses of this SDS.

MSDS: according to the REACH regulation
1907/2006 Annex II

Reference: RQ0814331
PA: PA00067464_NC
Date of issue SDS: 27/04/2010
Valid until superseded

Storage area : Store in a cool area. Store in a dry area

8. Exposure controls / Personal protection

Personal protection (Material-Handling) :
Not required for normal conditions of use

9. Physical and chemical properties

9.1 General information

Appearance : Liquid
Odour : pleasant (perfume)
Colour : Colourless

9.2 Important health, safety & environmental info

Flashpoint : > 58 °C
Absolute density : 1 g/cm³
pH : ~ 5
pH solution : 100 %

9.3 Other information

Solubility in water : High

All properties are determined in accordance with the specifications laid down in the Commission Regulation on testing methods referred to in Article 13(3) or any other comparable method.

10. Stability and reactivity

The information in this section is applicable on all mentioned identified uses of this SDS.

Instability : Stable under normal conditions
Conditions to avoid : Not applicable
Reactivity hazard : Not applicable
Materials to avoid : Not applicable

11. Toxicological information

The information in this section is applicable on all mentioned identified uses of this SDS.

11.1 Toxicity

Eye irritation	:	Slightly irritating
Skin irritation	:	Slightly irritating
Skin sensitization	:	No sensitising effects expected.
Toxicity hazard	:	No toxicity hazard
LD50 oral rat	:	> 5000 mg/kg

11.2 Effects and symptoms

Symptoms/injuries after skin contact	:	Contact during a long period may cause light irritation
Symptoms/injuries after inhalation	:	May cause respiratory irritation
Symptoms/injuries after ingestion	:	Gastrointestinal complaints
Symptoms/injuries after eye contact	:	Slight irritation

12. Ecological information

The information in this section is applicable on all mentioned identified uses of this SDS.

CESIO Recommended phrases	:	The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.
Other information (adverse effects)	:	Not harmful to aquatic organisms

13. Disposal considerations

Disposal	:	Consumer products ending up down the drain after use. - Disposal must be done according to official regulations. - Liquid spill: take up in non-combustible absorbent material - Shovel into suitable and closed
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MSDS: according to the REACH regulation
1907/2006 Annex II

Reference: RQ0814331
PA: PA00067464_NC
Date of issue SDS: 27/04/2010
Valid until superseded

EURAL : 20 01 29*
container for disposal - Large spills: contain released substance, pump
into suitable containers

14. Transport information

ADR class : 2 - Gases
ADR UN no : 1950
ADR transport document description : UN 1950 AEROSOLS, asphyxiant, 2.2
ADR danger labels : 2.2 - Non-flammable compressed gas



ADR transport regulations : Subject to the provisions
Proper Shipping Name : AEROSOLS, asphyxiant

RID class : 2
RID UN number : 1950
RID danger labels : 2.2



RID transport regulations : Subject to the provisions
Proper Shipping Name : AEROSOLS, asphyxiant

ADNR class : 2
ADNR UN number : 1950
ADNR danger labels : 2.2



Proper Shipping Name : AEROSOLS, asphyxiant

IMDG class : 2.2
IMDG UN number : 1950

MSDS: according to the REACH regulation
1907/2006 Annex II

Reference: RQ0814331
PA: PA00067464_NC
Date of issue SDS: 27/04/2010
Valid until superseded

IMDG transport regulations : Subject to the provisions
Proper Shipping Name : AEROSOLS, asphyxiant

ICAO class : 2.2
ICAO UN number : 1950
ICAO transport regulations : Subject to the provisions
Proper Shipping Name : AEROSOLS, asphyxiant

15. Regulatory information

Components indicating danger classification :

Symbol : -

R-phrases : Not classified as dangerous according to the criteria of directive(s)
67/548/EEC and/or 1999/45/EC

16. Other information

Training advice : Normal use of this product shall imply use in accordance with the
instructions on the packaging

MSDS: according to EC directive 2001/58/EC and the REACH regulation 1907/2006 Annex II

REACH Disclaimer:

This information is based on current knowledge. Consistency of data in the SDS with CSR is considered, as far as the information is available at the time of compilation (cfr Revision date and Version number).

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.



Safety Data Sheet

Section 1: Identification

1.1 Product Identifier

Product Name : Fellowes Shredder Oil

Fellowes Item Number : 35250

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Use of the substance/mixture : Lubricant

1.3 Details of the Supplier of the Safety Data Sheet

Company : Fellowes, Inc.

Address : 1789 Norwood Avenue
Itasca, IL 60143-1095
USA

Telephone : 630.893.1600

Fax : 630.893.1648

Toll Free : 800.945.4545

Website : fellowes.com

SECTION 2: Hazard(s) Identification

2.1 Hazard(s) Identification

This product is NOT classified as hazardous according to 29 CFR 1910, amended to conform to the United Nations' Globally Harmonized System of Classification and Labelling of Chemicals (OSHA/GHS); SOR/88-66, The Canadian Controlled Products Regulations (CRP); and/or NOM-002-SCT-2003 (Mexico). However, vegetable oil (in mist form) is known to be listed as OSHA CFR 1910.1000 air contaminant. Occupational exposure limits are subsequently provided in Section 8 of this SDS.

2.1.1 Classification According To EC Regulation No. 1272/2008

Hazard class : None

Hazard category : None

2.2 Label Elements

Hazard pictograms : None

Signal word : None

Hazard statement : None



Safety Data Sheet

SECTION 3: Composition / Information On Ingredients

3.1 Substance

Name : Canola Base Lubricating Oil

CAS No. : 120962-03-0

EINECS No. : 601-748-6

Name	Product Identifier	Maximum Weight
Canola Base Lubricating Oil	(CAS No.) 120962-03-0	>99% Vegetable

SECTION 4: First-Aid Measures

4.1 Description of First Aid Measures

First-aid measures after inhalation : Remove the victim into fresh air. Consult a doctor/medical service.

First-aid measures after skin contact : Remove excess with cloth or paper. Wash thoroughly with soap and water.

First-aid measures after eye contact : Immediately flush with plenty of water for 15 minutes. Consult a doctor/medical service.

First-aid measures after ingestion : Seek medical attention immediately. Do not induce vomiting, (vomiting may cause aspiration into lungs resulting in chemical pneumonia).

SECTION 5: Fire-Fighting Measures

5.1 Extinguishing Media

Dry chemical, water fog, carbon dioxide, or foam.

5.2 Special Hazards Arising From the Substance or Mixture

Unusual fire and explosion hazards: None

5.3 Advice For Firefighters

Do not use water except as fog.

5.4 National Fire Protection Association (NFPA) – Hazard Identification

Health 0 Flammability 1 Reactivity 0



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SECTION 6: Accidental Release Measures

6.1 Clean Water Act / Oil Pollution Act

This product may be classified as an oil under Section 311 of the Clean Water Act, and under the Oil Pollution Act. Discharges or spills into or leading to surface waters that cause a sheen must be reported to National Response Center (1-800-424-8802).

6.1.1 Steps To Be Taken In Case Material Is Released Or Spilled

Recover free product. Add sand, earth, or other suitable absorbent to spill area. Minimize skin contact. Keep product out of sewers and watercourses by diking or impounding. Advise authorities if product has entered or may enter sewers, watercourses, or extensive land areas. Assure conformity with applicable governmental regulations.

SECTION 7: Handling and Storage

7.1 Precautions for Safe Handling

Use product with caution around heat, sparks, pilot lights, static electricity, and open flame.

7.2 Procedures For Clean-up

Transfer bulk of mixture into another container. Absorb residue with an inert material such as earth, sand, or vermiculite. Sweep up and dispose as solid waste in accordance with Local, State, and Federal regulations.

7.3 "Empty" Container Warning

"Empty" containers retain residue (liquid and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind or expose such containers to heat, flame, sparks, static electricity, or other source of ignition; they may explode and cause injury or death. Do not attempt to refill or clean containers since residue is difficult to remove. "Empty" drums should be completely drained, properly bunged and promptly returned to a drum reconditioner. All other containers should be disposed of in an environmentally safe manner and in accordance with governmental regulation.

7.4 Waste Disposal

Dispose of in accordance with all applicable Federal, State and Local regulations.

SECTION 8: Exposure Controls / Personal Protection

8.1 Exposure Limit For Total Product

5 mg/m³ For oil mist (aerosol) for an 8-hour workday.

8.2 Basis

OSHA Regulation CFR 1910.1000 and recommended by the American Hygienists (ACGIH). ACGIH states that the air is to be sampled by a method that does not collect vapor; in addition, it lists a 10 mg/m³ STEL.

8.3 Ventilation

Use local exhaust to capture vapor, mists or fumes, if necessary. Provide ventilation sufficient to exceeding recommended exposure limit or buildup of explosive concentrations of vapor in air. No smoking or use of flame or other ignition source.

8.4 Respiratory Protection

Use supplied-air respiratory protection in confined or enclosed spaces, if needed.



Safety Data Sheet

8.5 Protective Gloves

Use chemical-resistant gloves, if needed, to avoid prolonged or repeated skin contact.

8.6 Eye Protection

Use splash goggles or face shield when eye contact may occur.

8.7 Other Protective Equipment

Use chemical-resistant apron or other impervious clothing, if needed, to avoid contaminating regular clothing, which could result in prolonged or repeated skin contact.

8.8 Personal Hygiene

Minimize breathing vapor, mist or fumes. Avoid prolonged or repeated contact with skin. Remove contaminated clothing; launder or dry-clean before re-use. Remove contaminated shoes and thoroughly clean before re-use; Discard if oil soaked. Cleanse skin thoroughly after contact, before breaks and meals, and at end of work period. Product is readily removed from skin by waterless hand cleaners followed by washing thoroughly with soap and water.

SECTION 9: Physical and Chemical Properties

9.1 Information On Basic Physical and Chemical Properties

Physical state	: Liquid
Appearance	: Thin Liquid
Color	: Light Amber (Golden)
Odor	: Bland
pH	: N/A
Evaporation rate	: 0
Melting point	: N/A
Boiling point	: N/A
Flash point	: > 540° F (Method Used) Cleveland Open Cup
Flammable Limits %	: N/A
Vapor pressure	: N/A
Vapor density	: N/A
Specific gravity (water = 1)	: 0.905
Solubility in water	: 0 at 20° C
Viscosity SUS at 100 F	: 190
Volatile	: 0
Stability	: Stable under normal conditions



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SECTION 10: Stability and Reactivity

This product is stable and will not react violently with water. Hazardous polymerization will not occur. Avoid contact with strong oxidants such as liquid chlorine, concentrated oxygen, sodium hypochlorite, calcium hypochlorite, etc., as this presents a serious explosion hazard.

SECTION 11: Toxicological Information

11.1 Nature Of Hazard and Toxicity Information

Repeated and prolonged overexposure to oil mists may result in droplet deposition, oil granuloma formation, inflammation and increased incidence of infection.

11.2 Toxic and Hazardous Ingredients

None

SECTION 12: Ecological Information

Ecological effect testing has not been conducted on this product. Do not discharge this product into public water or waterways unless authorized by a National Pollution Discharge Elimination system (NPDES) Permit issued by the Environmental Protection Agency (EPA). An environmental fate analysis has not been conducted on this specific product. However, plants and animals may experience harmful or fatal effects when coated with petroleum-based products. Petroleum-based (mineral) lube oil will normally float on water. In stagnant or slow-flowing waterways, an oil layer can cover a large surface area. As a result, this oil layer might limit and eliminate natural atmospheric oxygen transport into the water. With time, if not removed, oxygen depletion in the waterway might be enough to cause a fish kill or create an anaerobic environment.

SECTION 13: Disposal Considerations

13.1 Waste Treatment Methods

Options for disposal of this product may depend on the conditions under which it was used. To determine the proper method of disposal, refer to RCRA (40 CFR 261), as well as Federal EPA and state and local regulations. Please refer to section 5, 6 and 15 for additional information.

SECTION 14: Transport Information

UN Number

US DOT (United States Department of Transportation): Not Regulated

IMO/IMDG (International Maritime Dangerous Goods): Not Regulated

IATA (International Air Transport Association): Not Regulated

ADR (Agreement on Dangerous Goods by Road (Europe)): Not Regulated

RID (Regulations Concerning The International Transport of Dangerous Goods (Europe)): Not Regulated

AND (European Agreement Concerning The Carriage of Dangerous Goods by Inland Waterways): Not Regulated



Safety Data Sheet

SECTION 15: Regulatory Information

15.1 US Federal Regulations

The following information may be useful in complying with various state and federal laws and regulations under various environmental statutes: threshold planning quantity (TPQ), EPA regulation 40 CFR 355 (SARA Sections 301-304) no TPQ for product or any constituent greater than 1% or 0.1% (carcinogen).

15.2 Toxic Chemical Release Reporting, EPA Regulation 40 CFR 372 (SARA Section 313)

No Toxic chemical is present greater than 1% or 0.1% (carcinogen).

15.3 Hazardous Chemical Reporting, EPA Regulation 40 CFR 370 (SARA Section 311-312)

EPA Hazardous Classification Code: Not applicable

15.4 Toxic Substance Control Act (TSCA)

This product does not contain polychlorinated biphenyls (PCB's)

All components of this product are listed on the U.S. TSCA Inventory.

This product does not contain detectable amounts of any material listed by the state of California as known to cause reproductive toxicity.

15.5 WHMIS

Not a controlled product.

15.6 CEPA (Canadian Environmental Protection Act)

All components of this product are on the Domestic Substance List (DSL) or are exempt.

SECTION 16: Other Information

The information contained in the Safety Data Sheet is believed to be correct and used as a guide.

Special Firefighting Procedures: None known
Unusual Fire and Explosion Hazards: None known

V. HEALTH HAZARD INFORMATION

Symptoms of Overexposure:

Inhalation: Small amount is not likely to cause harmful effects. Large amounts may cause nose and throat irritation, dizziness, nausea and headache.

Eyes: May cause mild irritation

Skin: May cause mild irritation

Ingestion: Small amounts may cause vomiting, dizziness, nausea, weakness and headache.

Health Effects or Risks from Exposure:

Acute:

Chronic:

First Aid: Emergency Procedures:

Eye Contact: Flush with water.

Skin Contact: Wash with soap and water.

Inhalation: Remove to fresh air if needed.

Ingestion: DO NOT induce vomiting, call a physician immediately.

Suspected Cancer Agent:

No

Yes Federal OSHA NTP IARC Cal/OSHA

Medical Conditions Aggravated by Exposure:

Recommendations to Physician:

VI. REACTIVITY DATA

Stability: Stable Unstable

Conditions to Avoid: None Known

Incompatibility (materials to avoid): None Known

Hazardous Decomposition Products (including combustion products): None Known

Hazardous Polymerization: Will not occur

VII. SPILL, LEAK AND DISPOSAL PROCEDURES

Use absorbent material to collect and contain for salvage or disposal.

None: Disposal of all wastes in accordance with federal, state and local regulations.

VIII. SPECIAL HANDLING INFORMATION

Ventilation and Engineering Controls: Use local exhaust.

Respiratory Protection: None should be needed.

Eye Protection: Goggles

Gloves: None required

Other Clothing and Equipment: None

Work Practices, Hygienic Practices:

Other Handling and Storage Requirements: Do not puncture.

Protective Measures During Maintenance of Contaminated Equipment:

IX. LABELING

Do not puncture. Keep out of the reach of children.

W. F. Taylor believes the data set forth herein are accurate as of the date hereof.
Taylor makes no warranty with respect thereto and expressly disclaims all liability for reliance thereon.
Such data are offered solely for your consideration, investigation and verification.

1. Identification

Product identifier FirePro Treated Wood

Other means of identification

SDS number 51-KPC

Recommended use Fire Retardant Treated Wood for building use in areas not exposed to weather or wetting

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Company Name Koppers Performance Chemicals Inc.

Address 1016 Everee Inn Rd., Griffin, GA 30224

Telephone number 770-233-4200

Contact person Regulatory Manager, KPC Inc.

Emergency Telephone Number CHEMTREC 1-800-424-9300

E-mail KPCmgrsds@koppers.com

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Carcinogenicity Category 1A

OSHA defined hazards Combustible dust

Label elements



Signal word Danger

Hazard statement May cause cancer by inhalation. May form combustible dust concentrations in air.

Precautionary statement

Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Prevent dust accumulation to minimize explosion hazard. Ground/bond container and receiving equipment. Wear protective gloves/protective clothing/eye protection/face protection.

Response If exposed or concerned: Get medical advice/attention. In case of fire: Use CO2, foam or water spray for extinction.

Storage Store locked up.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC) None known.

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%
Wood	N/A	>97.75
Boron	7440-42-8	0.6-2.25

Composition comments All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. Depending on the additives applied to the treating solution, this wood may also contain <1 % of mold inhibitors, <1% of a non-hazardous wax emulsion, and <% of a colorant.

4. First-aid measures

Inhalation	Move to fresh air. If breathing is difficult, give oxygen. Get medical attention immediately. Some species may cause allergic respiratory reactions with asthma-like symptoms in sensitized individuals.
Skin contact	Remove contaminated clothing. Wash skin thoroughly with soap and water for several minutes. Prolonged contact with treated wood and/or treated wood dust, especially when freshly treated at the plant, may cause irritation to the skin. Abrasive handling or rubbing of the treated wood may increase skin irritation. Some wood species, regardless of treatment, may cause dermatitis or allergic skin reactions in sensitized individuals. In case of rashes, wounds or other skin disorders: Seek medical attention and bring along these instructions.
Eye contact	Do not rub eye. Immediately flush eye(s) with plenty of water. Remove any contact lenses and open eyelids wide apart. If irritation persists get medical attention.
Ingestion	Rinse mouth thoroughly if dust is ingested. Get medical attention if any discomfort continues.
Most important symptoms/effects, acute and delayed	Wood dust: May cause nasal dryness, irritation and mucostasis. Coughing, wheezing, sneezing, sinusitis and prolonged colds have also been reported. Depending on wood species may cause respiratory sensitization and/or irritation. Symptoms can include irritation, redness, scratching of the cornea, and tearing. May cause eczema-like skin disorders (dermatitis). Airborne treated or untreated wood dust may cause nose, throat, or lung irritation and other respiratory effects.
Indication of immediate medical attention and special treatment needed	Treat symptomatically.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media	Carbon dioxide, regular foam, dry chemical, water spray, or water fog.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this may spread the fire.
Specific hazards arising from the chemical	Depending on moisture content, and more importantly, particle diameter and airborne concentration, wood dust in a contained area may explode in the presence of an ignition source. Wood dust may similarly deflagrate (combustion without detonation like an explosion) if ignited in an open or loosely contained area. An airborne concentration of 40 grams (40,000 mg) of dust per cubic meter of air is often used as the LEL for wood dusts. Reference NFPA Standards- 654 and 664 for guidance.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace.
Fire fighting equipment/instructions	Use water spray to cool fire exposed surfaces and to protect personnel.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Avoid generation and spreading of dust. Avoid spread of dust. Avoid inhalation of dust. Provide adequate ventilation. Wear appropriate personal protective equipment (See Section 8).
Methods and materials for containment and cleaning up	Sweep or vacuum up spillage and collect in suitable container for disposal. If not possible, gently moisten dust before it is collected with shovel, broom or the like. Containers must be labeled. For waste disposal, see Section 13 of the SDS.
Environmental precautions	For good industrial practice avoid release to the environment.

7. Handling and storage

Precautions for safe handling	Avoid prolonged or repeated breathing of dust. Avoid prolonged or repeated contact with skin. Wear appropriate personal protective equipment. Do not smoke. Change contaminated clothing. Do not burn preserved wood. Do not use preserved wood as Mulch. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces.
Conditions for safe storage, including any incompatibilities	Keep away from heat, sparks and open flame. Store in tightly closed original container in a dry, cool and well-ventilated place.

8. Exposure controls/personal protection

Occupational exposure limits

U.S. - OSHA

Components	Type	Value	Form
Wood (CAS N/A)	PEL	5 mg/m ³ 15 mg/m ³	Respirable dust. Total fraction.

ACGIH

Components	Type	Value	Form
Wood (CAS N/A)	TWA	1 mg/m ³	Inhalable fraction.

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value	Form
Wood (CAS N/A)	TWA	1 mg/m ³	Dust.

Biological limit values

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Provide sufficient general/local exhaust ventilation to maintain inhalation exposures below current exposure limits and areas below explosive dust concentrations.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields or safety goggles when sawing or cutting.

Skin protection

Hand protection

When handling wood, wear leather or fabric gloves.

Other

Wear normal work clothes and safety shoes.

Respiratory protection

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Use a NIOSH-approved respirator if there is a potential for exposure to dust exceeding exposure limits (See 29 CFR 1910.134, respiratory protection standard).

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

If wood dust contacts the skin, workers should wash the affected areas with soap and water. Clothing contaminated with wood dust should be removed, and provisions should be made for the safe removal of the chemical from the clothing. Persons laundering the clothes should be informed of the hazardous properties of wood dust. A worker who handles wood dust should thoroughly wash hands, forearms, and face with soap and water before eating, using tobacco products, using toilet facilities, applying cosmetics, or taking medication. Workers should not eat, drink, use tobacco products, apply cosmetics, or take medication in areas where wood dust is handled, or processed. Observe any medical surveillance requirements.

9. Physical and chemical properties

Appearance

Physical state Solid.

Form Solid. Chips. Dust.

Color Not available.

Odor May have a slight scented odor.

Odor threshold Not available.

pH Not available.

Melting point/freezing point Not available.

Initial boiling point and boiling range Not available.

Flash point Not available.

Evaporation rate Not available.

Flammability (solid, gas) Combustible dust.

Upper/lower flammability or explosive limits

Flammability limit - lower (%) Not available.

Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	0.4 - 0.8 (Water = 1)
Solubility(ies)	
Solubility (water)	< 0.1
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not applicable.
Other information	
Percent volatile	0 %
VOC (Weight %)	0 %

10. Stability and reactivity

Reactivity	The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	Stable at normal conditions.
Possibility of hazardous reactions	Hazardous reactions do not occur.
Conditions to avoid	Avoid heat, sparks, open flames and other ignition sources. Minimize dust generation and accumulation. Avoid contact with incompatible materials.
Incompatible materials	Strong oxidizing agents. Reducing agents.
Hazardous decomposition products	During combustion: Carbon oxides. Nitrogen oxides. Aliphatic aldehydes. Polycyclic aromatic hydrocarbons (PAHs).

11. Toxicological information

Information on likely routes of exposure

Inhalation	Wood dust, treated or untreated, is irritating to the nose, throat and lungs. Prolonged or repeated inhalation of wood dusts may cause respiratory irritation, recurrent bronchitis and prolonged colds. Some species may cause allergic respiratory reactions with asthma-like symptoms in sensitized individuals. Prolonged exposure to wood dusts by inhalation has been reported to be associated with nasal and paranasal cancer.
Skin contact	Handling may cause splinters. Prolonged contact with treated wood and/or treated wood dust, especially when freshly treated at the plant, may cause irritation to the skin. Abrasive handling or rubbing of the treated wood may increase skin irritation. Some wood species, regardless of treatment, may cause dermatitis or allergic skin reactions in sensitized individuals.
Eye contact	Dust may irritate the eyes.
Ingestion	Not likely, due to the form of the product. However, ingestion of dusts generated during working operations may cause nausea and vomiting. Certain species of wood and their dusts may contain natural toxins, which can have adverse effects in humans.

Symptoms related to the physical, chemical and toxicological characteristics	Wood dust: May cause nasal dryness, irritation and mucostasis. Coughing, wheezing, sneezing, sinusitis and prolonged colds have also been reported. Depending on wood species may cause respiratory sensitization and/or irritation. Symptoms can include irritation, redness, scratching of the cornea, and tearing. May cause eczema-like skin disorders (dermatitis). Airborne treated or untreated wood dust may cause nose, throat, or lung irritation and other respiratory effects.
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Information on toxicological effects

Acute toxicity	Not expected to be acutely toxic.
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Components	Species	Test Results
Boron (CAS 7440-42-8)		
Acute		
<i>Oral</i>		
LD50	Rat	650 mg/kg

Skin corrosion/irritation	Dust may irritate skin.
Serious eye damage/eye irritation	Dust may irritate the eyes.
Respiratory or skin sensitization	
Respiratory sensitization	Exposure to wood dusts can result in hypersensitivity,
Skin sensitization	Exposure to wood dust can result in the development of contact dermatitis. The primary irritant dermatitis resulting from skin contact with wood dusts consist of erythema, blistering, and sometimes erosion and secondary infections occur.
Germ cell mutagenicity	No component of this product present at levels greater than or equal to 0.1% is identified as a mutagen by OSHA.
Carcinogenicity	May cause cancer by inhalation. Untreated wood dust or saw dust: The International Agency for Research on Cancer (IARC) classifies untreated wood dust as a Group I human carcinogen. The classification is based primarily on IARC's evaluation of increased risk in the occurrence of adenocarcinomas of the nasal cavities and paranasal sinuses associated with occupational exposures of untreated wood dust. Epidemiological studies have been reported on carcinogenic risks of employment in the furniture-making industry, the carpentry industry, and the lumber and sawmill industry. IARC has reviewed these studies and reports that there is sufficient evidence that nasal carcinomas have been caused by employment in the furniture-making industry where the excess risk is associated with exposure to untreated wood dust or sawdust from hardwood species. IARC concluded that epidemiological data are not sufficient to make a definite assessment of the carcinogenic risk of employment as a carpenter or worker in a lumber mill or sawmill.
IARC Monographs. Overall Evaluation of Carcinogenicity	
Wood (CAS N/A)	1 Carcinogenic to humans.
NTP Report on Carcinogens	
Wood (CAS N/A)	Known To Be Human Carcinogen.
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)	
Not listed.	
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.
Specific target organ toxicity - single exposure	Not classified.
Specific target organ toxicity - repeated exposure	Not classified.
Aspiration hazard	Not likely, due to the form of the product.
Chronic effects	Chronic exposure to wood dusts can result in pneumonitis, and coughing, wheezing, fever and the other signs and symptoms associated with chronic bronchitis.

12. Ecological information

Ecotoxicity	The product is not classified as environmentally hazardous.
Persistence and degradability	No data is available on the degradability of this product.
Bioaccumulative potential	
Mobility in soil	The product is insoluble in water.
Mobility in general	The product is not volatile but may be spread by dust-raising handling.
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions	Dispose in accordance with applicable federal, state, and local regulations. Do not discharge into drains, water courses or onto the ground.
Local disposal regulations	Dispose of in accordance with local regulations.
Hazardous waste code	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose in accordance with all applicable regulations. Do not discharge into drains, water courses or onto the ground.
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No
Delayed Hazard - Yes
Fire Hazard - Yes
Pressure Hazard - No
Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical Yes

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA) Not regulated.

US state regulations

US. Massachusetts RTK - Substance List

Not regulated.

US. New Jersey Worker and Community Right-to-Know Act

Boron (CAS 7440-42-8)

Wood (CAS N/A)

US. Pennsylvania Worker and Community Right-to-Know Law

Wood (CAS N/A)

US. Rhode Island RTK

Not regulated.

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Wood (CAS N/A)

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date	10-March-2015
Revision date	01-June-2015
Version #	02
Further information	HMIS® is a registered trade and service mark of the NPCA. E - Safety Glasses, Gloves, Dust Respirator
HMIS® ratings	Health: 1* Flammability: 1 Physical hazard: 0 Personal protection: E

NFPA ratings



Disclaimer

Koppers Performance Chemicals Inc. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.

PANEL-SET / FRP ADHESIVE

MATERIAL SAFETY DATA SHEET

SECTION I – PRODUCT IDENTIFICATION

Formulated Solutions
25-44 Borough Place, Woodside, NY 11377
Telephone #: 718-267-6380
Emergency Phone #: 718-267-6380
Generic ID: *Latex Based FRP Paneling Adhesive*
Product Identity: *Panel-Set / FRP Adhesive*
Date Prepared: 3/11/09
Date of last revision: 8/1/00

SECTION II – INGREDIENTS

Ingredient Name	CAS Number	Percent	Exposure Limits
Water	7732-18-5	37-40	N/A
Clay	1332-58-7	25-30	10mg/m ³ (ACGIH)
Latex Polymer	N/A	10-12	5000 ppm (TLV)
Naphtha	80323-24	1-2	300 ppm
Amorphous Silicate	93763-70-3	0-1.0	5mg/m ³ (ACGIH)
Monoethanolamine	000141-43-5	< 0.1	50 ppm (TLV)

* Other Non-Hazardous Ingredients considered a Trade Secret

SECTION III – PHYSICAL DATA

Initial Boiling Point: 212°F.
Vapor Pressure: *Same as water.*
Vapor Density (Air=1.0): *Same as water.*
Specific Gravity: 1.0-1.1
Percent Volatiles: 45-50.0%.
VOC G/L: 65

SECTION IV – FIRE AND EXPLOSION DATA

Flash Point: *N/A.*
Explosive Limit (Product): *N/A.*
Extinguishing Media: *None to avoid.*
SPECIAL FIRE FIGHTING PROCEDURES: *None.*
UNUSUAL FIRE & EXPLOSION HAZARDS: *None.*

SECTION V – HEALTH HAZARD DATA

Permissible Exposure Level: *N/A.*
Threshold Limit Value: *N/A.*
EFFECTS OF EXPOSURE:
Skin: *Possible mild irritation.*
Eyes: *Possible mild irritation.*
Inhalation: *None known.*
FIRST AID:
Skin: *Soap and water.*
Eyes: *Flush with water, lifting upper and lower lids occasionally.*
Inhalation: *If affected, remove individual to fresh air. Use only in well ventilated areas.*
Ingestion: *Do not induce vomiting. Call physician or transport to an emergency facility.*

SECTION VI – REACTIVITY DATA

Stability: *Stable.*
Incompatibility: *None.*
Hazardous Decomposition: *None.*
Hazardous Polymerization: *None.*
Conditions to Avoid: *None Known.*

SECTION VII – SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: *Absorb liquid on paper, vermiculite, floor absorbent, or other absorbent material. Solidified materials accepted for landfill disposal in most locations. Check all local, state, and federal regulations.*

SECTION VIII – PROTECTIVE EQUIPMENT

Ventilation: *Open all available windows and entrances to insure good ventilation.*
Respirator Protection: *None needed.*
Protective Gloves: *If sensitive.*
Eye protection: *Wear glasses or protective goggles to avoid splashes.*
Other Protective Equipment: *None required.*
WASH HANDS THOROUGHLY WITH SOAP AND WATER.

SECTION IX – SPECIAL PRECAUTIONS

Protect from freezing. Use only in applications as stated on the label. Do not take internally. Close container after each use. Avoid skin and eye contact.

Ventilation with fresh air, including open doors and windows should be observed during any flooring installation. Operate HVAC systems at 100% fresh air intake before, during and after installation to eliminate lingering odors or particulate matter.

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with company or not. Recipients are advised to confirm in advance of need that the information is current, applicable and suitable to their circumstances.

KEEP OUT OF REACH OF CHILDREN

SAFETY DATA SHEET

1. Identification

Product identifier

Product list

Glass Mat Faced Gypsum Panels

Product List A

DensArmor Plus® Interior Panel
DensArmor Plus® Fireguard® Abuse-Resistant Panels
DensArmor Plus® Fireguard® Impact-Resistant Panels
DensArmor Plus® Fireguard® Interior Panels
DensDeck® Prime Roof Board
DensDeck® Roof Board
DensDeck® Prime Fireguard® Roof Board
DensDeck® Fireguard® Roof Board
DensElement™ Sheathing
DensGlass® Fireguard® Sheathing
DensGlass® Shaftliner
DensGlass® Sheathing
DensShield® Fireguard® Tile Backer
DensShield® Tile Backer

Product List B

DensArmor Plus® Fireguard C® Interior Panels

Other means of identification

Product code

GP-71C

Recommended use

Products accommodate a wide range of wall, floor, ceiling and roof applications.

Recommended restrictions

Workers (and your customers or users in the case of resale) should be informed of the potential presence of respirable dust and respirable crystalline silica as well as their potential hazards. Appropriate training in the proper use and handling of this material should be provided as required under applicable regulations.

Manufacturer/Importer/Supplier/Distributor information

Company name

Georgia-Pacific Gypsum LLC

Address

133 Peachtree Street, NE
Atlanta, GA 30303

Telephone

Technical Information 800.225.6119
(M)SDS Request 404.652.5119

E-mail

Not available.

Emergency phone number

Chemtrec - Emergency 800.424.9300

2. Hazard(s) identification

Emergency overview

This product is not hazardous in the form in which it is shipped by the manufacturer but may become hazardous by downstream activities such as cutting, sanding, or otherwise working with this product that generate large amount of dusts. Those hazards associated with large amount of dusts are described below.

Physical hazards

Not classified.

Health hazards

Eye irritation

Category 2B

Environmental hazards

Not classified.

OSHA defined hazards

Not classified.

Label elements

Hazard symbol

None.

Signal word

Warning

Hazard statement

Causes eye irritation.

Precautionary statement

Prevention

Wash thoroughly after handling. Observe good industrial hygiene practices.

Response	Wash hands after handling. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Storage	Store away from acids.
Disposal	Dispose of contents/container in accordance with applicable regulations.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
CALCIUM SULFATE DIHYDRATE		10101-41-4	≤ 95
VERMICULITE**		1318-00-9	0 - 7
CONTINUOUS FILAMENT GLASS FIBER		65997-17-3	1 - 5
CRYSTALLINE SILICA (QUARTZ)*		14808-60-7	1 - 5

Composition comments ** Found in products in List B, Section 1 of this SDS.

Gypsum (calcium sulfate, dihydrate) and vermiculite contain naturally occurring crystalline silica (quartz) which is listed as a lung carcinogen. See Section 8 for exposure information.

*The weight percent for crystalline silica represents total crystalline silica and not the respirable fraction. Testing conducted by Georgia-Pacific did not detect respirable crystalline silica during activities associated with the normal use of this product; however, jobsite air monitoring should be conducted to determine actual exposure when permissible exposure limits may be exceeded.

4. First-aid measures

Inhalation	If dust from the material is inhaled, remove the affected person immediately to fresh air. Call a physician if symptoms develop or persist.
Skin contact	For skin contact, wash immediately with soap and water. Get medical attention if irritation develops and persists.
Eye contact	Do not rub the eyes. Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion	Rinse mouth. May result in obstruction and irritation if ingested. Get medical attention.
Most important symptoms/effects, acute and delayed	Irritation of eyes. Exposed individuals may experience eye tearing, redness, and discomfort.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	None known.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	Firefighters should wear full protective clothing including self contained breathing apparatus.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid inhalation of dust from the spilled material. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Use personal protection recommended in Section 8. Keep unnecessary personnel away.

Methods and materials for containment and cleaning up

Minimize dust generation. Sweep up or gather material and place in an appropriate container for disposal. Utilize wet methods, if appropriate, to minimize dust. For waste disposal, see section 13 of the SDS.

Environmental precautions

Keep out of drains, sewers, ditches, and waterways.

7. Handling and storage

Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed. Minimize dust generation and accumulation. Do not breathe dust. Do not get this material in contact with eyes. Do not taste or swallow. Avoid prolonged exposure. Observe good industrial hygiene practices. Use only in well-ventilated areas. Wear appropriate NIOSH/MSHA approved dust mask or filtering facepiece if dust is generated. Do not eat or drink while using the product. Wash hands before eating, drinking, or smoking.

Conditions for safe storage, including any incompatibilities

Store level and keep dry. Dewpoint or other conditions causing the presence of moisture can damage the product during storage. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

US OSHA Table Z-3: Time Weighted Average (TWA) (mg/m3)

Components	Type	Value	Form
VERMICULITE** (CAS 1318-00-9)	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value	Form
CALCIUM SULFATE DIHYDRATE (CAS 10101-41-4)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
CRYSTALLINE SILICA (QUARTZ)* (CAS 14808-60-7)	PEL	0.05 mg/m3	

ACGIH

Components	Type	Value	Form
CONTINUOUS FILAMENT GLASS FIBER (CAS 65997-17-3)	TWA	5 mg/m3	Inhalable fraction.

US ACGIH Threshold Limit Values: Time Weighted Average (TWA): mg/m3, non-standard units

Components	Type	Value	Form
CALCIUM SULFATE DIHYDRATE (CAS 10101-41-4)	TWA	10 mg/m3	Inhalable fraction.
CONTINUOUS FILAMENT GLASS FIBER (CAS 65997-17-3)	TWA	1 fibers/cm3	Fiber.
CRYSTALLINE SILICA (QUARTZ)* (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value	Form
CALCIUM SULFATE DIHYDRATE (CAS 10101-41-4)	TWA	5 mg/m3	Respirable.
		10 mg/m3	Total

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value	Form
CONTINUOUS FILAMENT GLASS FIBER (CAS 65997-17-3)	TWA	5 mg/m3	Fiber, total
CRYSTALLINE SILICA (QUARTZ)* (CAS 14808-60-7)	TWA	0.05 mg/m3	Respirable dust.

Biological limit values

No biological exposure limits noted for the ingredient(s).

Exposure guidelines

Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica should be monitored and controlled.

*Testing conducted by Georgia-Pacific did not detect respirable crystalline silica during activities associated with the normal use of this product; however, jobsite air monitoring should be conducted to determine actual exposure when permissible exposure limits may be exceeded.

Appropriate engineering controls

Score and snap method recommended. When using product, provide local and general exhaust ventilation to keep airborne dust concentrations below exposure limits. Use wet methods, if appropriate, to reduce the generation of dust. Ventilation should be sufficient to effectively remove and prevent buildup of any dusts or fumes that may be generated during handling or thermal processing. If engineering measures are not sufficient to maintain concentrations of dust particulates below the Occupational Exposure Limit (OEL), suitable respiratory protection must be worn.

Individual protection measures, such as personal protective equipment**Eye/face protection**

Safety glasses or goggles are recommended when using this product. Ensure compliance with OSHA's PPE standard (29 CFR 1910.132 and .133) for eye and face protection. Eye wash fountain is recommended.

Skin protection**Hand protection**

For prolonged or repeated skin contact use suitable protective gloves.

Other

Impervious protective clothing and gloves recommended to prevent drying or irritation of skin. Ensure compliance with OSHA's PPE standards (29 CFR 1910.132 (general) and 138 (hand protection)). Safety shower/eye wash fountain is recommended in the workplace area (29 CFR 1910.151 (c)). Impervious protective clothing and gloves recommended to prevent drying or irritation of skin. Safety shower/eye wash fountain is recommended in the workplace area.

Respiratory protection

A NIOSH approved dust mask or filtering facepiece is recommended in poorly ventilated areas or when permissible exposure limits may be exceeded. Respirators should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134) and ANSI's standard for respiratory protection (Z88.2).

Thermal hazards

Not applicable.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Keep away from food and drink.

9. Physical and chemical properties

Appearance	Gypsum boards
Physical state	Solid.
Form	Solid
Color	Facing color varies
Odor	Low odor
Odor threshold	Not available.
pH	6 - 8
Melting point/freezing point	Not applicable.
Initial boiling point and boiling range	Not applicable.
Flash point	Not applicable.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower (%)	Not applicable.
Flammability limit - upper (%)	Not applicable.
Explosive limit - lower (%)	Not applicable.
Explosive limit - upper (%)	Not applicable.

Vapor pressure Not applicable.

Vapor density Not applicable.

Relative density Not available.

Solubility(ies)

Solubility (water) 0.2 % @ 22°C

Partition coefficient (n-octanol/water) Not applicable.

Auto-ignition temperature Not applicable.

Decomposition temperature Not available.

Viscosity Not applicable.

Other information

Flash point class Not flammable

Specific gravity 2.2 - 2.4

10. Stability and reactivity

Reactivity Contact with strong acids produces carbon dioxide.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous reactions No dangerous reaction known under conditions of normal use.

Conditions to avoid Contact with incompatible materials. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).

Incompatible materials Strong acids.

Hazardous decomposition products May include and are not limited to: calcium oxide and sulfur dioxide.

11. Toxicological information**Information on likely routes of exposure**

Inhalation Inhalation of dusts may cause respiratory irritation.

Skin contact Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.

Eye contact Dust in the eyes will cause irritation.

Ingestion Not applicable under normal conditions of use. May cause gastrointestinal irritation if ingested.

Symptoms related to the physical, chemical and toxicological characteristics Irritation of eyes. Exposed individuals may experience eye tearing, redness, and discomfort.

Information on toxicological effects**Acute toxicity**

Product	Species	Test Results
Glass Mat Faced Gypsum Panels		
<u>Acute</u>		
Oral		
LD50	Rat	1664 mg/kg estimated
Components	Species	Test Results
CALCIUM SULFATE DIHYDRATE (CAS 10101-41-4)		
<u>Acute</u>		
Oral		
LD50	Rat	> 1581 mg/kg

Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.
Serious eye damage/eye irritation	Dust in the eyes will cause irritation.
Respiratory or skin sensitization	
Respiratory sensitization	Not likely to cause respiratory sensitization.
Skin sensitization	This product is not expected to cause skin sensitization.
Germ cell mutagenicity	Not classified.
Carcinogenicity	Not expected to be hazardous by OSHA/WHMIS criteria.

Exposure to respirable crystalline silica in the form of quartz or cristobalite from occupational sources is listed by IARC and NTP as a lung carcinogen. Prolonged exposure to respirable crystalline silica has been known to cause silicosis, a lung disease, which may be disabling. While there may be a factor of individual susceptibility to a given exposure to a respirable silica dust, the risk of contracting silicosis and the severity of the disease is clearly related to the amount of respirable crystalline silica exposure and the length of time (usually years) of exposure.

IARC Monographs. Overall Evaluation of Carcinogenicity

CRYSTALLINE SILICA (QUARTZ)* (CAS 14808-60-7) 1 Carcinogenic to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

CRYSTALLINE SILICA (QUARTZ)* (CAS 14808-60-7) Known To Be Human Carcinogen.

Reproductive toxicity	Not classified.
Specific target organ toxicity - single exposure	Not classified.
Specific target organ toxicity - repeated exposure	Not classified.
Aspiration hazard	Not classified.
Chronic effects	Not hazardous under normal conditions of use.
Further information	*Testing conducted by Georgia-Pacific did not detect respirable crystalline silica during activities associated with the normal use of this product; however, jobsite air monitoring should be conducted to determine actual exposure when permissible exposure limits may be exceeded.

12. Ecological information

Ecotoxicity Not considered to be harmful to aquatic life.

Components	Species	Test Results
CALCIUM SULFATE DIHYDRATE (CAS 10101-41-4)		
Aquatic		
<i>Acute</i>		
Fish	LC50 Fathead minnow (<i>Pimephales promelas</i>)	> 1970 mg/l, 96 hours
CONTINUOUS FILAMENT GLASS FIBER (CAS 65997-17-3)		
Aquatic		
<i>Acute</i>		
Fish	LC50 Fish	> 1000 mg/l, 96 hours
CRYSTALLINE SILICA (QUARTZ)* (CAS 14808-60-7)		
Aquatic		
<i>Acute</i>		
Fish	LC50 Zebra danio (<i>Danio rerio</i>)	> 10000 mg/l, 96 Hours OECD SIDS

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential No data available.

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions	Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations.
Contaminated packaging	Not available.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

15. Regulatory information

US federal regulations This product is not hazardous in the form in which it is sold and shipped by the manufacturer. However, the large amount of dusts generated by downstream activities such as cutting, sanding, or otherwise working with this product is considered hazardous and is regulated under the Hazard Communication Standard 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical Yes

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA) Not regulated.

US state regulations

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

CRYSTALLINE SILICA (QUARTZ)* (CAS 14808-60-7)

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date	March-13-2015
Revision date	March-24-2017
Version #	05
HMIS® ratings	Health: 1 Flammability: 0 Physical hazard: 0
NFPA ratings	Health: 1 Flammability: 0 Instability: 0
Disclaimer	This SDS is intended to quickly provide useful information to the user(s) of this material or product. It is not intended to serve as a comprehensive discussion of all possible risks or hazards, and it assumes a reasonable use of the product. The information contained in this SDS is believed to be accurate as of the date of preparation of this SDS and has been compiled from sources believed to be reliable. It is offered for your consideration, investigation and verification. The user or handler (or their employer) should consider the specific conditions in which this material will be used, handled, or stored and determine what specific safety or other precautions are required. Employers should ensure that their employees, agents, contractors, and customers who will use the product receive adequate warnings and safe handling procedures, including a current SDS. Product users or handlers (or their employer) who are unsure of what specific precautions are required should consult their employer, product supplier, or safety or health professionals before handling or working with this product. Please notify us immediately if you believe this SDS or other safety and health information about this product is inaccurate or incomplete.
Revision information	This document has undergone significant changes and should be reviewed in its entirety.

The Valspar Corporation

Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Material Identification

Product ID: 011.0002411.004
Product Name: GOOF OFF 16OZ 6 TRAY
Product Use: Chemical intermediate.
Print date: 02/Feb/2007
Revision Date: 01/Dec/2001

Company Identification

The Valspar Corporation - Architectural Coatings Division
1191 Wheeling Road
Wheeling, IL 60090
Manufacturer's Phone: 1-847-520-8580

24-Hour Medical Emergency Phone: 1-888-345-5732

2. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS

Common Name CAS-No.	Approx. Weight %	Chemical name
XYLENE 1330-20-7	75 - 80	Xylenes (o-, m-, p- isomers)
ETHYLBENZENE 100-41-4	15 - 20	Ethyl benzene
DIETHYLENE GLYCOL MONOMETHYL ETHER 111-77-3	1 - 5	Diethylene glycol monomethyl ether
PROPRIETARY ADDITIVE	.1 - 1	PROPRIETARY ADDITIVE

If this section is blank there are no hazardous components per OSHA guidelines.

3. HAZARDS IDENTIFICATION

Primary Routes of Exposure:

Inhalation
Ingestion
Skin absorption

Emergency Overview:

This section not in use.

This product contains ingredients that may contribute to the following potential acute health effects:

Inhalation Effects:

May irritate the lungs. May irritate mouth, nose, and throat. Harmful if inhaled. May affect the brain, nervous system, or respiratory system, causing dizziness, headache, nausea or respiratory irritation.

Eye Contact:

May cause moderate eye irritation.

Skin Contact:

May cause moderate skin irritation.

Acute Ingestion:

None known

Other Effects:

May cause kidney damage. May cause liver damage.

This product contains ingredients that may contribute to the following potential chronic health effects:

Notice: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

See Section 11 for toxicological information about Mutagens, Teratogens and Carcinogens.

If this section is blank, no information is available.

4. FIRST AID MEASURES

Inhalation:

If affected by inhalation, move victim to fresh air. If symptoms persist, seek medical attention.

Eye Contact:

In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing.

Skin Contact:

In case of contact, immediately flush skin with plenty of soap and water for at least 15 minutes. If irritation persists get medical attention.

Ingestion:

If swallowed, get medical attention immediately. If swallowed, do not induce vomiting. Give large quantities of water. If available, give several glasses of milk. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Medical conditions aggravated by exposure: Any respiratory or skin condition.

5. FIRE FIGHTING MEASURES

Flash point (Fahrenheit):	81° F (27° C) TCC/PM
Lower explosive limit:	1 %
Upper explosive limit:	7 %
Autoignition temperature:	Not available. ° F (° C)
Sensitivity to impact:	No.
Sensitivity to static discharge:	Subject to static discharge hazards. Please see bonding and grounding information in Section 7.
Hazardous combustion products:	See Section 10.

Unusual fire and explosion hazards:

None known.

Extinguishing media:

Carbon dioxide, dry chemical, foam and/or water fog.

Fire fighting procedures:

Use water spray to cool nearby containers and structures exposed to fire.

6. ACCIDENTAL RELEASE MEASURES

Action to be taken if material is released or spilled:

Ventilate area. Avoid breathing of vapors. Use self-containing breathing apparatus or airmask for large spills in a confined area. Wipe, scrape or soak up in an inert material and put in a container for disposal. See section 5, "Unusual Fire and Explosion Hazards", for proper container and storage procedures. Remove sources of ignition. Remove with inert absorbent and non sparking tools. Avoid contact with eyes.

7. HANDLING AND STORAGE**Precautions to be taken in handling and storage:**

Keep away from heat, sparks, and flames. Keep container closed when not in use. Do not store above 120 degrees F. (49 degrees C). Based on flash point and vapor pressure, suitable storage should be provided in accordance with OSHA regulation 1910.106, Ontario OH&S regulation 851 section 22. Empty containers may contain product residue, including flammable or explosive vapors. Do not cut, puncture or weld on or near container. All label warnings must be observed until the container has been commercially cleaned or reconditioned. If the product is used near or above the flashpoint, an ignition hazard may be present. Activities, uses, or operations which liberate vapor (such as mixing or free fall of liquids) may also present an ignition hazard. Please ensure containers and other interconnected equipment are properly bonded and grounded at all times.

8. PERSONAL PROTECTIVE EQUIPMENT AND EXPOSURE CONTROLS**Personal Protective Equipment****Eye and face protection:**

Avoid contact with eyes. Wear chemical goggles if there is the possibility of contact or splashing in the eye.

Skin protection:

Appropriate chemical resistant gloves should be worn. To prevent skin contact wear protective clothing covering all exposed areas.

Respiratory protection:

If exposure cannot be controlled below applicable limits, use the appropriate NIOSH approved respirator such as an air purifying respirator with organic vapor cartridge and dust/mist filter. Consult the respirator manufacturer's literature to ensure that the respirator will provide adequate protection. Read and follow all respirator manufacturer's instructions.

Ventilation

Required when spraying or applying in confined area. Ventilation equipment should be explosion proof. Eliminate ignition sources.

Exposure Guidelines**OSHA Permissible Exposure Limits (PEL's)**

Common Name CAS-No.	Approx. Weight %	TWA (final)	Ceilings limits (final)	Skin designations
XYLENE 1330-20-7	75 - 80	435 mg/m ³ 100 ppm		
ETHYLBENZENE 100-41-4	15 - 20	435 mg/m ³ 100 ppm		

ACGIH Threshold Limit Value (TLV's)

Common Name CAS-No.	Approx. Weight %	TWA	STEL	Ceiling limits	Skin designations
XYLENE 1330-20-7	75 - 80	100 ppm	150 ppm		
ETHYLBENZENE 100-41-4	15 - 20	100 ppm	125 ppm		

If this section is blank, no information is available.

9. PHYSICAL PROPERTIES

Odor:	Normal for this product type.
Physical State:	Liquid
pH:	Not determined.
Vapor pressure:	10 mmHG @ 68° F (20° C)
Vapor density (air = 1.0):	4.1
Boiling point:	277° F (136° C)
Solubility in water:	Insoluble.
Coefficient of water/oil distribution:	Not determined.
Density (lbs per US gallon):	7.31
Specific Gravity:	0.87
Evaporation rate (butyl acetate = 1.0):	1.1

10. STABILITY AND REACTIVITY

Stability:	Stable
Conditions to Avoid:	None known.
Incompatibility:	Strong oxidizers.
Hazardous Polymerization:	None anticipated.
Hazardous Decomposition Products:	Carbon monoxide and carbon dioxide.

Sensitivity to static discharge: Subject to static discharge hazards. Please see bonding and grounding information in Section 7.

11. TOXICOLOGICAL INFORMATION

Mutagens:

Teratogens:

Carcinogens:

Contains ethylbenzene, which has been determined by NTP to be an animal carcinogen with no known relevance to humans. IARC has classified ethylbenzene as possibly carcinogenic to humans (2b) on the basis of sufficient evidence of carcinogenicity in laboratory animals but inadequate evidence of cancer in humans.

Common Name CAS-No.	Approx. Weight %	IARC Group 1 - Human Evidence	IARC Group 2A - Limited Human Data	IARC Group 2B - Sufficient Animal Data
ETHYLBENZENE 100-41-4	15 - 20			Monograph 77, 2000

Common Name CAS-No.	Approx. Weight %	NTP Known Carcinogens	NTP Suspect Carcinogens	NTP Evidence of Carcinogenicity
ETHYLBENZENE 100-41-4	15 - 20			male rat-clear evidence; female rat-some evidence; male mice- some evidence; female mice-some evidence

Common Name CAS-No.	Approx. Weight %	OSHA Select Carcinogens	OSHA Possible Select Carcinogens	ACGIH Carcinogens

ETHYLBENZENE 100-41-4	15 - 20			Group A3 Confirmed animal carcinogen with unknown relevance to humans.
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If this section is blank, no information is available.

12. ECOLOGICAL DATA

Not available at this time.

13. DISPOSAL CONSIDERATIONS

Disposal should be made in accordance with federal, state and local regulations.

14. TRANSPORTATION INFORMATION

U.S. Department of Transportation

Proper Shipping Name: PAINT RELATED MATERIAL
Hazard Class: 3
UN ID Number: UN1263
Packing Group: III

49 CFR Hazardous Material Regulations Parts 100-180

THIS PRODUCT CONTAINS THE FOLLOWING HAZARDOUS SUBSTANCES IN REPORTABLE QUANTITIES . NOT ALL SIZES ARE SUBJECT TO THE RQ REQUIREMENTS. PLEASE CONTACT THE SUPPLIER FOR FURTHER SHIPPING INFORMATION.

Reportable Quantity Description: XYLENE

International Air Transport Association:

Proper Shipping Name: Contact Supplier for further information.

International Maritime Organization:

Proper Shipping Name: Contact Supplier for further information.

15. REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS:

Common Name CAS-No.	Approx. Weight %	SARA 302	SARA 313	CERCLA RQ in lbs.
XYLENE 1330-20-7	75 - 80		form R reporting required for 1.0% de minimis concentration	100
ETHYLBENZENE 100-41-4	15 - 20		form R reporting required for 1.0% de minimis concentration	1000
DIETHYLENE GLYCOL MONOMETHYL ETHER 111-77-3	1 - 5		YES	

SARA 311/312 Hazard Class:

Acute: Yes
Chronic: Yes
Flammability: Yes
Reactivity: No

Sudden Pressure: No

U.S. STATE REGULATIONS:

Pennsylvania Right To Know:

PROPRIETARY ADDITIVE

DIETHYLENE GLYCOL MONOMETHYL ETHER

ETHYLBENZENE

XYLENE

Trade Secret

111-77-3

100-41-4

1330-20-7

California Proposition 65:

WARNING: This product contains a chemical known to the State of California to cause cancer.

Rule 66 status of product

Photochemically reactive.

INTERNATIONAL REGULATIONS - Chemical Inventories

TSCA Inventory:

All components of this product are in compliance with U.S. TSCA Chemical Substance Inventory Requirements.

Canada Domestic Substances List:

All components of this product are listed on the Domestic Substances List.

16. OTHER INFORMATION

HMIS Codes

Health: 3

Flammability: 3

Reactivity: 1

PPE: X - See Section 8 for Personal Protective Equipment (PPE).

Abbreviations:

OSHA - Occupational Safety and Health Administration, IARC - International Agency for Research on Cancer, NIOSH - National Institute of Occupational Safety and Health, NTP - National Toxicology Program, ACGIH - American Conference of Governmental Industrial Hygienists, SCAQMD - South Coast Air Quality Management District, TSCA - Toxic Substances Control Act, IATA - International Air Transport Association, IMO - International Maritime Organization, DOT - Department of Transportation, NA - Not applicable, NOT ESTAB - Not established, N.A.V. - Not available, RQ - Reportable quantity, WT - Weight, MG/CU M - Milligrams per cubic meter, G/L - Grams per liter, MM - Millimeters, MPPCF - Millions of particles per cubic foot, PPM - parts per million, PPT - parts per thousand, TCC/PM - Tag closed cup / Pensky-Martens, PB - Lead, PEL - Permissible exposure level, TWA - Time Weighted Average, STEL - Short term exposure limit, C - Celsius, F - Fahrenheit.

Disclaimer:

The data on this sheet represent typical values. Since application variables are a major factor in product performance, this information should serve only as a general guide. Valspar assumes no obligation or liability for use of this information. UNLESS VALSPAR AGREES OTHERWISE IN WRITING, VALSPAR MAKES NO WARRANTIES, EXPRESS OR IMPLIED, AND DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR FREEDOM FROM PATENT INFRINGEMENT. VALSPAR WILL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES. Your only remedy for any defect in this product is the replacement of the defective product, or a refund of its purchase price, at our option. This MSDS contains additional information required by the state of Pennsylvania.

SECTION 1: Identification

1.1. Identification

Product form : Mixture
 Trade name : Amdro Kills Ants & Spiders Granules
 Synonyms : 100099383, 100099415, EPA Reg. No.: 228-494-73342, UPC #: 8-13576-00568-9, UPC #: 8-13576-00570-2

1.2. Recommended use and restrictions on use

Recommended use : Insecticide.
 Restrictions on use : Keep out of reach of children. Avoid contact with eyes, skin and clothing. Avoid breathing dust.

1.3. Supplier

Ambrands
 1000 Parkwood Circle, Suite 700
 Atlanta, GA 30339 - United States
 www.amdro.com

1.4. Emergency telephone number

Emergency number : 1-800-265-0761
 1-800-424-9300 - CHEMTREC
 1-703-527-3887 - CHEMTREC - Outside North America - Collect Calls Accepted

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification

Respiratory sensitization Category 1A : May cause an allergy or asthma symptoms or breathing difficulties if inhaled
 Combustible Dust : May form combustible dust concentrations in air

2.2. GHS Label elements, including precautionary statements

GHS-US labeling

Hazard pictograms (GHS-US) :



GHS08

Signal word (GHS-US) : Danger
 Hazard statements (GHS-US) : May form combustible dust concentrations in air
 May cause an allergy or asthma symptoms or breathing difficulties if inhaled
 Precautionary statements (GHS-US) : Avoid breathing dust/fume/gas/mist/vapors/spray.
 [In case of inadequate ventilation] wear respiratory protection.
 If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing
 If experiencing respiratory symptoms: Call a poison center or a doctor
 Dispose of contents/container to in accordance with local/regional/national/international regulations

2.3. Other hazards which do not result in classification

Other hazards not contributing to the classification : This product is extremely toxic to aquatic organisms, including fish and invertebrates. Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

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Name	Product identifier	%
Bifenthrin	(CAS-No.) 82657-04-3	0.1
Peanut hulls	(CAS-No.) N/A	99.1
Other ingredients	(CAS-No.) N/A	Balance

SECTION 4: First-aid measures

4.1. Description of first aid measures

- First-aid measures after inhalation : IF INHALED: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a poison center or a doctor. Call a POISON CENTER or doctor/physician if you feel unwell.
- First-aid measures after skin contact : IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.
- First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice and attention.
- First-aid measures after ingestion : IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. Do NOT induce vomiting unless directed to do so by medical personnel.

4.2. Most important symptoms and effects (acute and delayed)

- Symptoms/effects after inhalation : May cause allergy or asthma symptoms or breathing difficulties if inhaled due to peanut hulls.

4.3. Immediate medical attention and special treatment, if necessary

NOTE TO PHYSICIAN: This product is a pyrethroid. If large amounts have been ingested, milk, cream and other digestible fats and oils may increase absorption and so should be avoided.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

- Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.
- Unsuitable extinguishing media : Avoid heavy hose streams.

5.2. Specific hazards arising from the chemical

- Fire hazard : May ignite spontaneously if exposed to air.
- Explosion hazard : Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.
- Reactivity : This material is friable and can create small dust particles during any handling, processing, and transfer operations. This material can form explosive dust/air suspensions that are ignitable under some conditions.

5.3. Special protective equipment and precautions for fire-fighters

- Firefighting instructions : Combustible dust - use low-pressure medium fog streams to avoid dust clouds. Ventilate closed spaces before entering. Eliminate ignition sources. Move containers away from the fire area if this can be done without risk.
- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

- Protective equipment : Avoid contact with skin, eyes and clothing. Avoid dust formation and breathing dust. Keep all ignition sources away. Wear suitable protective equipment.
- Emergency procedures : Ventilate spillage area. Avoid breathing dust/fume/gas/mist/vapors/spray. Evacuate unnecessary personnel. No flames, no sparks. Eliminate all sources of ignition.

6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: Exposure controls/personal protection.
- Emergency procedures : Contain spill and monitor for excessive dust accumulation. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Ventilate closed spaces before entering. Turn off electric power to area. As an immediate precautionary measure, isolate spill or leak area for at least 100 meters (330 feet) in all directions. Evacuate area.

6.2. Environmental precautions

Avoid release to the environment.

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6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Use appropriate PPE. Sweep or scoop spills, dispose of any unusable material in approved landfill. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Non-sparking tools should be used.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. Avoid dust formation. Avoid breathing dust/fume/gas/mist/vapors/spray.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool. Store in a closed container. Keep only in original container. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Incompatible materials : Strong oxidizers. Strong acids. Strong bases.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls : Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, use NIOSH approved respiratory protection.



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid
Appearance : Brown, tan or gray granules
Color : Brown, tan or gray
Odor : Faint
Odor threshold : No data available
pH : No data available
Melting point : No data available
Freezing point : Not applicable

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Boiling point	: No data available
Flash point	: Not applicable
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Non flammable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: Not applicable
Bulk density	: 28 - 31 lbs/cu. ft.
Solubility	: Insoluble
Log Pow	: No data available
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: No data available
Explosion limits	: Not applicable
Explosive properties	: Not explosive
Oxidizing properties	: Not applicable
VOC content	: 0 % w/w

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

This material is friable and can create small dust particles during any handling, processing, and transfer operations. This material can form explosive dust/air suspensions that are ignitable under some conditions.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. May form combustible dust concentrations in the air.

10.4. Conditions to avoid

Avoid dust formation. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

Strong oxidizing agents. Strong bases. Strong acids.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

GHS-US Properties	Classification
Acute toxicity	Not classified
Skin corrosion/irritation	Not classified
Serious eye damage/irritation	Not classified
Respiratory or skin sensitization	May cause an allergy or asthma symptoms or breathing difficulties if inhaled.
Germ cells mutagen	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
Specific target organ toxicant (single exposure)	Not classified
Specific target organ toxicant (repeated exposure)	Not classified
Aspiration hazard	Not classified

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Potential health effects

Inhalation

Acute : May cause allergy or asthma symptoms or breathing difficulties if inhaled due to peanut hulls.

Skin

Acute : Exposure to dust may cause mechanical irritation.

Eye

Acute : Exposure may cause mechanical eye irritation.

Ingestion

Acute : Under normal conditions of use, no health effects are expected.

SECTION 12: Ecological information

12.1. Toxicity

Bifenthrin (82657-04-3)	
LC50 Acute fish 1	0.00035 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])
LC50 Acute fish 2	0.00015 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [flow-through])
LC50 Acute crustacea 1	0.000004 mg/l (Exposure time: 96 h - Species: Mysis shrimp)
LC50 Acute crustacea 2	0.0016 mg/l (Exposure time: 48 h - Species: Water flea)

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Amdro Kills Ants & Spiders Granules	
Ecological Fate	This pesticide is extremely toxic to aquatic organisms, including fish and invertebrates.

SECTION 13: Disposal considerations

13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

SECTION 14: Transport information

	UN number	Proper Shipping Name	Transport hazard class(es)	Packing group	Environmental hazards
DOT	Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
IMDG	UN3077	For inner packaging >5 kg only: Environmentally hazardous substance, solid, n.o.s (Bifenthrin)	9	III	Marine pollutant
IATA	UN3077	For inner packaging >5 kg only: Environmentally hazardous substance, solid, n.o.s (Bifenthrin)	9	III	Acute aquatic toxicity

SECTION 15: Regulatory information

15.1. US Federal regulations

Bifenthrin (82657-04-3)	
Subject to reporting requirements of United States SARA Section 313	
SARA Section 313 - Emission Reporting	1 %
FIFRA Labelling	
EPA Registration Number	228-494-73342

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This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.	
FIFRA Signal word	Caution
FIFRA Precautionary Statement	KEEP OUT OF REACH OF CHILDREN.
FIFRA Hazards to Humans and Domestic Animals	HAZARDS TO HUMANS AND DOMESTIC ANIMALS - CAUTION: Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco and using the toilet. Remove and wash contaminated clothing before reuse.
FIFRA First Aid	IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice. NOTE TO PHYSICIAN: This product is a pyrethroid. If large amounts have been ingested, milk, cream and other digestible fats and oils may increase absorption and so should be avoided.
FIFRA Environmental Hazards	This pesticide is extremely toxic to aquatic organisms, including fish and invertebrates. To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Sweeping any product that lands on a driveway, sidewalk, or street back onto the treated area of the lawn or garden will help to prevent run off to water bodies or drainage systems.

15.2. US State regulations

No additional information available

SECTION 16: Other information

Date of issue : 30 April 2015
Revision date : 31 October 2017
Supersedes : 31 July 2017

Indication of changes:

Sec. 14: Updated transportation description.

SDS US (GHS HazCom 2012) - CGP

The information and statements herein are believed to be reliable but are not to be construed as a warranty or representation for which we assume legal responsibility. Users should undertake sufficient verification and testing to determine the suitability for their own particular purpose of any information or products referred to herein. NO WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE IS MADE.

SAFETY DATA SHEET

SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

Product Identifier : **Henry® 351 Carpet Adhesive**
Product ID No. : 70010052
Trade Name/Synonyms : Henry 351
Material Use : Adhesive for installation of Interior Carpet.
Uses Advised Against : No information available.

Manufacturer's name and address:

HENRY

The W.W. Henry Company
400 Ardex Park Drive
Aliquippa, PA 15001 USA

Information Telephone No. : (724) 203-8000
Website Address : <http://www.wwhenry.com>
24 Hr Emergency Telephone # : CHEM-TEL: 1-800-255-3924 OR 1-813-248-0585 (call collect)

SECTION 2 – HAZARDS IDENTIFICATION

GHS Classification per 29 CFR 1910.1200 (OSHA HCS 2012) and HPR (WHMIS 2015)

Skin corrosion/irritation, Category 2
Serious eye damage/eye irritation, Category 2B.

GHS Pictograms



Signal Word

Warning.

Hazard Statements

Causes skin irritation.
Causes eye irritation.

Precautionary Statements

Wash hands and exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Take off contaminated clothing and wash before reuse. Do not subject to grinding..

Hazards Not Otherwise Classified

None

% With Unknown Acute Toxicity : Up to 10% by weight of this product is comprised of ingredients with unknown acute toxicity.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS #	% (by weight)
Kaolin	1332-58-7	15.00 – 40.00
Severely solvent refined heavy naphthenic petroleum distillate	64741-96-4	10.00 – 30.00
Crystalline silica	14808-60-7	0.10 – 1.00

The exact percentages of the ingredients have been withheld by the manufacturer as trade secrets.

SECTION 4 – FIRST AID MEASURES

- General** : Call a Poison Center or doctor if you feel unwell.
- Inhalation** : If inhaled, move victim to fresh air and keep at rest in a position comfortable for breathing. If breathing difficulties persist, seek immediate medical attention/advice.
- Skin contact** : Remove/Take off immediately all contaminated clothing. Flush affected skin with gently flowing lukewarm water for at least 20 minutes. If rash or irritation persists, seek medical attention/advice.
- Eye contact** : Immediately flush eyes thoroughly with running water for at least 20 to 30 minutes. Seek immediate medical attention/advice.
- Ingestion** : Never give anything by mouth to an unconscious person. Rinse mouth with water. Do NOT induce vomiting. Seek immediate medical attention/advice.
- Notes for Physician** : Treat symptomatically.

Signs and symptoms of short-term (acute) exposure

- Inhalation* : May cause minor, temporary irritation to respiratory tract. Symptoms may include coughing and shortness of breath.
- Skin* : May cause skin irritation. Symptoms may include redness and itching
- Eyes* : Causes irritation to eyes. Symptoms may include redness, itching, blurred vision or pain.
- Ingestion* : Symptoms such as gastric pain, nausea, vomiting, and diarrhea may occur.

Effects of long-term (chronic) exposure

- : Prolonged inhalation may cause adverse lung effects with symptoms including coughing and shortness of breath.

Indication of need for immediate medical attention or special treatment

- : Difficulty breathing persists after removing the person to fresh air.
Any exposure to the eye which causes irritation.
Ingestion.

SECTION 5 – FIRE FIGHTING MEASURES

- Suitable extinguishing media** : Carbon dioxide, dry chemical powder, appropriate foam or water fog.
- Unsuitable extinguishing media** : water jet
- Hazardous combustion products** : Carbon monoxide, carbon dioxide, and other toxic vapors and gases which are common to thermal degradation of organic compounds.
- Special fire-fighting procedures/equipment**
- : Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame. After fires have been extinguished, carefully clean all equipment and surfaces exposed to fumes.
- Environmental precautions** : Do not allow material to enter drains or contaminate ground water system.
- Fire hazards/conditions of flammability**
- : Not flammable under normal conditions of use. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure.
- Flammability classification (OSHA 29 CFR 1910.1200, WHMIS 2015)**
- : Not flammable

SECTION 6 – ACCIDENTAL RELEASE MEASURES

- Personal precautions** : Restrict access to area until completion of clean-up. All persons dealing with clean-up should wear the appropriate chemically protective equipment.
- Protective equipment** : Refer to Section 8 on this Safety Data Sheet, EXPOSURE CONTROLS / PERSONAL PROTECTION, for additional information on acceptable personal protective equipment.
- Emergency Procedures** : If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8002).
US CERCLA Reportable quantity (RQ): None reported.
- Methods and materials for containment and cleaning up** : Ventilate area of release. Stop spill or leak at source if safely possible. Contain product with inert absorbent material, preventing it from entering sewer lines or waterways. Gather up spilled material and place in suitable container for later disposal (see Section 13). Residual of product, while still wet, can be cleaned up with warm soapy water. Notify the appropriate authorities as required.
- Prohibited materials** : Avoid strong oxidizing agents
- Environmental precautions** : Do not allow product to enter drains or waterways. Do not allow material to contaminate ground water system.
- Reference to other sections** : See Section 13 for disposal information.

SECTION 7 – HANDLING AND STORAGE

- Safe handling procedures** : Observe good hygiene standards. Use only with adequate ventilation. Do not eat, drink or smoke in the work area. Wash thoroughly after handling. Do not get in eyes, on skin, or on clothing. Avoid repeated or prolonged skin contact. Avoid breathing vapors or mists of this product. Sanding and grinding dusts may be harmful if inhaled. When removing this product from existing flooring (i.e. during a renovation), wear safety goggles and respiratory protection from dust due to blasting, chipping, or mechanically pulverizing. Wear protective clothing to prevent skin contact. Promptly remove any clothing that becomes contaminated. Clean contaminated clothing before reuse. Keep container tightly closed.
- Storage requirements** : Store in a cool, dry, well-ventilated area. Store away from heat and open flame. Avoid storing in direct sunlight. Store in original container. Keep tightly closed when not in use. Do not reuse empty container without commercial cleaning or reconditioning.
- Incompatible materials** : See Section 10.
- Special packaging materials** : Always keep in containers made of the same materials as the supply container.

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

- Permissible Exposure Limits** : No exposure limits have been established for the product itself. Below are exposure limits for the components in the product.

Ingredients	CAS #	ACGIH TLV		OSHA PEL	
		TWA	STEL	PEL	STEL
Kaolin	1332-58-7	2 mg/m ³ (respirable Dust)	N/Av	15 mg/m ³ (Total dust); 5 mg/m ³ (respirable)	N/Av
Severely solvent refined heavy naphthenic petroleum distillate	64741-96-4	5 mg/m ³ (as oil mist, mineral)	10 mg/m ³	5 mg/m ³ (as oil mist, mineral)	N/Av
Crystalline silica	14808-60-7	0.025 mg/m ³ (respirable fraction)	N/Av	0.05 mg/m ³ (respirable) (Final rule limit)	N/Av

- Engineering Controls** : Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits. Ventilation should effectively remove and prevent buildup of any vapor or mist generated from the handling of this product.

Personal Protection Equipment

Eye / face protection	: Chemical goggles must be worn when using this product. Additionally, a face shield is recommended if splashing is possible.
Skin protection	: Wear chemical resistant protective clothing and impervious gloves. Materials such as nitrile rubber or Viton (fluorocarbon rubber) are recommended.
Body protection	: Where extensive exposure to product is possible, use resistant coveralls, apron and boots to prevent contact.
Respiratory protection	: Under normal conditions of use with adequate ventilation, respiratory protection should not be necessary. If work process generates excessive quantities of vapor or dust, or exposures in excess of any PEL, wear an appropriate organic vapor respirator.
Site safety equipment	: An eyewash station and safety shower should be made available in the immediate working area.
General hygiene considerations	: Avoid contact with eyes, skin and clothing. Avoid breathing vapors/dust. Do not eat, drink or smoke when using this product. Clean all equipment and clothing at end of each work shift.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: Paste	Appearance	: Beige, creamy paste
Odor	: Mild	Odor threshold	: N/Av
pH	: 9.0 – 9.5	Specific gravity	: 1.20 – 1.24
Boiling point	: > 212°F (> 100°C)	Coefficient of water/oil distribution	: N/Av
Melting/Freezing point	: N/Av	Solubility in water	: Miscible
Vapor pressure (mm Hg @ 20°C / 68°F)	: N/Av	Evaporation rate (n-Butyl acetate = 1)	: N/Av
Vapor density (Air = 1)	: N/Av	Volatiles (% by weight)	: 28 – 31
Volatile Organic Compounds (VOCs)	: 3.0 g/L SCAQMD Rule 1168		
Particle size	: N/Av	Flammability classification	: Not flammable
Flash point	: >212°F (100°C)	Lower flammable limit (% by vol)	: Not available
Flash point method	: Setflash closed	Upper flammable limit (% by vol)	: Not available
Auto-ignition temperature	: N/Av	Decomposition temperature	: Not available
Viscosity	: Not available	Oxidizing properties	: Not available
Explosion data: Sensitivity to mechanical impact / static discharge	: Not expected to be sensitive to mechanical impact or static discharge.		

SECTION 10 – REACTIVITY AND STABILITY INFORMATION

Reactivity	: Does not react.
Stability	: Stable under the recommended storage and handling conditions prescribed.
Hazardous reactions	: Hazardous polymerization does not occur.
Conditions to avoid	: High temperatures.
Materials to avoid and incompatibility	: Oxidizing agents.
Hazardous decomposition products	: None known, refer to hazardous combustion products in Section 5.

SECTION 11 – TOXICOLOGICAL INFORMATION

Routes of exposure	: <i>Inhalation</i> : YES <i>Skin Absorption</i> : NO <i>Skin and Eyes</i> : Yes <i>Ingestion</i> : YES
Symptoms of exposure	: See Section 4.
Toxicological data	: There are no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data.

Ingredients	LD50		
	LC50 (4 hr) Inhalation, rat	Oral, rat	Dermal, rabbit
Kaolin	N/Av	N/Av	N/Av
Severely solvent refined heavy naphthenic petroleum distillate	N/Av	N/Av	N/Av
Crystalline silica	N/Av	N/Av	N/Av

- Skin corrosion or irritation** : May cause irritation to skin.
- Serious eye damage / eye irritation** : May cause irritation to eyes.
- Respiratory or skin sensitization** : None known.
- Germ cell mutagenicity** : None known.
- Carcinogenic status** : Not considered to be a hazard. During normal usage of the product as recommended, airborne dusts will not be present. Do not sand off excess material, following initial application. When removing adhesive from existing flooring (ie. during a renovation), do not mechanically remove under dry conditions (e.g. blasting, chipping, mechanically pulverizing).
- Reproductive toxicity** : None known.
- Specific Target Organ Toxicity, Single Exposure** : Not considered to be a hazard during normal usage of the product as recommended.
- Specific Target Organ Toxicity, Repeated Exposure** : None known.
- Aspiration hazard** : None known.
- Additional information** : N/Av

SECTION 12 – ECOLOGICAL INFORMATION

- Environmental effects** : The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters.
- Ecotoxicity** : No data available.
- Biodegradability** : No data available.
- Bioaccumulative potential** : No data available.
- Mobility in soil** : No data available.
- PBT and vPvB assessment** : No data available.
- Other adverse effects** : No data available.

SECTION 13 – DISPOSAL CONSIDERATION

- Handling for disposal** : Handle waste according to recommendations in Section 7.
- Methods of disposal** : You must test your waste using methods described in 40 CFR Part 261 to determine if it meets applicable definitions of hazardous wastes. Dispose in accordance with all applicable federal, state, provincial and local regulations. Contact your local, state, provincial or federal environmental agency for specific rules.
- Packaging** : Handle contaminated packaging in the same manner as the product.
- RCRA** : If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

SECTION 14 – TRANSPORTATION INFORMATION

Regulatory Information	UN Number	Shipping Name	Class	Packing Group	Label

TDG	None	This product is not regulated according to Canadian TDG regulations.	None	None	None
TDG Additional Information	None				
49 CFR/DOT	None	This product is not regulated according to US DOT regulations.	None	None	None
49 CFR/DOT Additional Information	None				

SECTION 15 – REGULATORY INFORMATION

Canadian Information:

This product has been classified according to the hazard criteria of the Hazardous Products Regulations (HPR). This SDS contains all of the information required by the HPR.

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on either the Domestic Substances List (DSL) or the Non- Domestic Substances List (NDSL).

US Federal Information:

TSCA: All listed ingredients appear on the Toxic Substances Control Act (TSCA) inventory.

CERCLA Reportable Quantity (RQ) (40 CFR 117.302): None reported.

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes:
Immediate (Acute) Health Hazard

Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

SARA TITLE III: Sec. 313, Toxic Chemicals Notification, 40 CFR 372: This material is not subject to SARA notification requirements, since it does not contain any Toxic Chemical constituents above de minimus concentrations.

U.S. State Right To Know Laws

California Proposition 65: Warning! This product contains a chemical known to the State of California to cause cancer.

Other State Right to Know Laws: Kaolin [CAS# 1332-58-7] (MA, MN, NJ, PA, RI); Crystalline silica [CAS# 14808-60-7] (MA, MN, NJ, PA, RI).

SECTION 16 – OTHER INFORMATION

HMIS Rating : * - Chronic Hazard 0 - Minimal 1 – Slight 2 – Moderate 3 – Serious 4 – Severe
Health: 1 Flammability 1 Physical Hazard 0 PPE: Gloves, safety glasses

Legend : ACGIH: American Conference of Governmental Industrial Hygienists
CAS: Chemical Abstract Services
CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
CFR: Code of Federal Regulations
DOT: Department of Transportation
DSL: Domestic Substances List
EPA: Environmental Protection Agency
GHS: Globally Harmonized System
HPR: Hazardous Products Regulations
IARC: International Agency for Research on Cancer
Inh: Inhalation
N/Av: Not Available

N/Ap: Not Applicable
NIOSH: National Institute of Occupational Safety and Health
NTP: National Toxicology Program
OSHA: Occupational Safety and Health Administration
PEL: Permissible exposure limit
RCRA: Resource Conservation and Recovery Act
SARA: Superfund Amendments and Reauthorization Act
STEL: Short Term Exposure Limit
TDG: Canadian Transportation of Dangerous Goods Act & Regulations
TLV: Threshold Limit Values
TSCA: Toxic Substance Control Act
TWA: Time Weighted Average
WHMIS: Workplace Hazardous Materials Identification System

Disclaimer of Liability

The Information presented herein is supplied as a guide to those who handle or use this product and has been prepared in good faith by technically knowledgeable personnel. It is not intended to be all-inclusive. The manner and conditions of use and handling may involve other and additional considerations. Safe work practices must be employed when working with any materials. It is important that the end user makes a determination regarding the adequacy of the safety procedures employed during the use of this product.

No warranty of any kind is given or implied. The W.W. Henry Company will not be liable for any damages, losses, injuries or consequential damages which may result from the use or reliance on any information contained herein.

Prepared By:
The W.W. Henry Company
400 Ardex Park Drive
Aliquippa, PA, U.S.A.
15001

(724) 203-8000
Visit our Website: <http://www.wwhenry.com>

Revision date: : 21-Sep-2016

End of Document

NATIONAL STAMP & SIGN

MANUFACTURERS OF CUSTOM RUBBER STAMPS • SELF INKERS • NAME BADGES • PLATES • PRINTING • MARKING DEVICES • SIGNS • STOCK SIGNS
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Page 1

SECTION I - PRODUCT IDENTIFICATION

TRADE NAME: IDEAL STAMP INK, ALL COLORS

SYNONYMS: 1915 INK

SECTION II - SUMMARY OF HAZARDS AND INGREDIENTS

HEALTH: 1
FLAMMABILITY: 1
REACTIVITY: 0
PERSONAL PROTECTION: B

SCALE OF HAZARD: 0 = MINIMAL
1 = SLIGHT
2 = MODERATE
3 = SERIOUS
4 = SEVERE

INGREDIENT	PERCENT	ACTG/H-TLV	OSHA-PEL	CAS. NO
DIETHYLENE GLYCOL	6.00	1000 PPM	1000 PPM	111-46-6
ETHYLENE GLYCOL *	25.00	50 PPM	50 PPM	107-21-1

* THIS CHEMICAL IS SUBJECT TO THE REPORTING REQUIREMENTS OF SARA TITLE III, SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT - TO - KNOW ACT OF 1986 AND OF 40 CFR 372. THIS PRODUCT IS IN COMPLIANCE WITH THE EPA TSCA INVENTORY.

SECTION III - PHYSICAL & CHEMICAL CHARACTERISTICS

BOILING POINT: 212 DEGREES F
MELTING POINT: 32 DEGREES F
VAPOR DENSITY: AIR = 1 4.15
SPECIFIC GRAVITY: 1.0211
REACTIVITY IN WATER: NONE
SOLUBILITY IN WATER: COMPLETE
AUTO IGNITION: 444 DEGREES F

VAPOR PRESSURE <1 MM HG
APPEARANCE & ODOR: MOBILE LIQUID
APPEARANCE & ODOR: NO ODOR
LEL/UEL %: 1.7 15.3
FLASH POINT: 232 DEGREES F
METHOD USED: CLOSED CUP

SECTION IV - FIRE & EXPLOSION DATA

EXTINGUISHING MEDIA: WATERSPRAY
CARBON DIOXIDE
DRY CHEMICAL
ALCOHOL RESISTANT FOAM
WATER IN INK WILL STOP FIRE AFTER FLASH

SPECIAL FIRE PROCEDURES: WEAR SELF-CONTAINED BREATHING APPARATUS
WEAR PROTECTIVE CLOTHING AND EQUIPMENT
USE WATERSPRAY TO COOL FIRE-EXPOSED AREA
USE WATERSPRAY TO PROTECT PERSONNEL

UNUSUAL HAZARDS: WATER ON FIRE MAY CAUSE FROTHING
FIRE SHOULD GO OUT DUE TO WATER IN INK

SECTION VIII - SPECIAL PROTECTION

EYE PROTECTION : WEAR SPLASH GLASSES
IF CONTACT OCCURS FLUSH EYES WITH WATER USING EYE BATH
USE OF HYGIENIC PRACTICES AT WORK : WASHING AT MEALTIME AND END OF SHIFT IS ADEQUATE

THIS PRODUCT IS INK AND SHOULD BE TREATED AS SUCH!

SECTION IX - SPECIAL MESSAGE SECTION

THE HAZARDS LISTED ON THIS MSDS ARE TAKEN FROM THE MSDS FOR EACH OF THE INGREDIENTS IN THIS MIXTURE. IN MOST CASES, THE MAXIMUM FORM OF HAZARD IS REPRESENTED HERE. THE TLV'S REPRESENT THE CONDITIONS UNDER WHICH IT IS BELIEVED THAT NEARLY ALL WORKERS MAY BE REPEATEDLY EXPOSED DAY AFTER DAY WITHOUT ADVERSE EFFECT. IT MUST BE REMEMBERED THAT EACH INDIVIDUAL REACTS DIFFERENTLY AND SOME MAY EXPERIENCE DISCOMFORT WHILE OTHERS DO NOT. THIS MSDS IS PRESENTED SO THAT EACH INDIVIDUAL WILL HAVE THE INFORMATION TO DEAL SAFELY WITH THE USE OF THIS PRODUCT.

SECTION X - DISCLAIMER SECTION

DISCLAIMER OF LIABILITY:

AS THE CONDITIONS OR METHODS OF USE ARE BEYOND OUR CONTROL, WE DO NOT ASSUME ANY RESPONSIBILITY AND EXPRESSLY DISCLAIM ALL LIABILITY FOR ANY USE OF THIS MATERIAL. INFORMATION CONTAINED HEREIN IS GIVEN IN GOOD FAITH AND BELIEVED TO BE TRUE AND ACCURATE. BUT ALL STATEMENTS OR SUGGESTIONS ARE MADE WITHOUT ANY WARRANTY, EXPRESSED OR IMPLIED, REGARDING THE ACCURACY OF THE INFORMATION, THE HAZARDS CONNECTED WITH THE USE OF THE MATERIAL OR RESULTS TO BE OBTAINED FROM THE USE THEREOF.

PLEASE CALL MARC SCULLER OF M&R MARKING SYSTEMS FOR PRODUCT INFORMATION:
(908) 562-9500

PREPARED BY: ALLEN WERWA, SAFETY DIRECTOR, 01/31/90



MATERIAL SAFETY DATA SHEET

CHROMATE INDUSTRIAL CORPORATION®

5250-A Naiman Parkway, Solon, OH 44139 • 888-567-2206 • www.chromate.com

**FOR CHEMICAL
EMERGENCY**

Call ChemTrec day/night:
1-800-424-9300

SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: LIQUID ELECTRICAL TAPE

DATE PREPARED: JUNE 24, 2013

PART NUMBER: 74547

REPLACES: MARCH 9, 2009

CHROMATE INDUSTRIAL CORPORATION

5250-A NAIMAN PARKWAY, SOLON, OH 44139 • (888) 567-2206

SECTION 2 — HAZARDS IDENTIFICATION

Physical state: Liquid.

Appearance: Black liquid.

Emergency overview: Extremely flammable liquid and vapor - vapor may cause flash fire. Will be easily ignited by heat, spark or flames. Cancer hazard. Irritating to respiratory system. Irritating to eyes and skin. May be harmful if swallowed. Prolonged exposure may cause chronic effects.

OSHA regulatory status: This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

Potential health effects

Routes of exposure: Inhalation. Ingestion. Skin contact. Eye contact.

Eyes: Irritating to eyes. Eye contact may result in corneal injury.

Skin: Irritating to skin. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.

Inhalation: Irritating to respiratory system. Prolonged inhalation may be harmful.

Ingestion: Components of the product may be absorbed into the body by ingestion. Irritating to mouth, throat, and stomach.

Target organs: Blood. Cardiac. Eyes. Liver. Lungs. Respiratory system. Skin. Kidneys. Central nervous system. Gastro-intestinal tract.

Chronic effects: Unconsciousness. Shortness of breath. Conjunctiva. Edema. Jaundice. Cyanosis (blue tissue condition, nails, lips, and/or skin). Liver injury may occur. Kidney injury may occur. May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion and blurred vision) and/or damage. May cause delayed lung injury. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.

Signs and symptoms: Irritation of nose and throat. Irritation of eyes and mucous membranes. Shortness of breath. Coughing. Decrease in motor functions. Behavioral changes. Edema. Conjunctivitis. Rash.

Potential environmental effects: Components of this product are hazardous to aquatic life. May cause long-term adverse effects in the environment.

SECTION 3 — COMPOSITION / INFORMATION ON INGREDIENTS

Components	CAS #	Percent
Methyl ethyl ketone	78-93-3	15-40
Vinyl chloride - vinyl acetate copolymer	9003-22-9	10-30
Xylene	1330-20-7	10-30
Acetone	67-64-1	5-10
3,4-Epoxy cyclohexanecarboxylic acid (3,4-epoxycyclohexylmethyl) ester	2386-87-0	3-7
Diethylene glycol dibenzoate	120-55-8	3-7
2-Propenoic acid, 2-methyl-, 2methylpropyl ester, polymer with ethylbenzene and 2-ethylhexyl 2-propenoate	68240-06-2	1-5
Carbon black	1333-86-4	1-5
Talc	14807-96-6	1-5

Composition comments: All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

N/A — NOT APPLICABLE N/D — NOT DETERMINED N/E — NONE ESTABLISHED N/R — NOT REGULATED N/L — NOT LISTED

SECTION 4 — FIRST AID MEASURES

First aid procedures

Eye contact:	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Skin contact:	Remove and isolate contaminated clothing and shoes. For minor skin contact, avoid spreading material on unaffected skin. If skin irritation persists, call a physician.
Inhalation:	Move to fresh air. If breathing is difficult, give oxygen. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Get medical attention if symptoms persist.
Ingestion:	Rinse mouth. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content does not get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician or poison control center immediately.
Notes to physician:	Treat symptomatically. Symptoms may be delayed.
General advice:	Get medical attention if symptoms occur. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use. Discard any shoes or clothing items that cannot be decontaminated.

SECTION 5 — FIRE FIGHTING MEASURES

Flammable properties:	Flammable by OSHA criteria. Heat may cause the containers to explode. Vapors may travel considerable distance to a source of ignition and flash back.
Extinguishing media	
Suitable extinguishing media:	Water. Water spray. Foam. Dry powder. Carbon dioxide (CO ₂).
Unsuitable extinguishing media:	Do not use a solid water stream as it may scatter and spread fire.
Protection of firefighters	
Specific hazards arising from the chemical:	Fire may produce irritating, corrosive and/or toxic gases.
Protective equipment and precautions for firefighters:	Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.
Fire fighting equipment/instructions:	Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also consider initial evacuation for 800 meters (1/2 mile) in all directions. ALWAYS stay away from tanks engulfed in flame. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Withdraw immediately in case of rising sound from venting safety devices or any discoloration of tanks due to fire. In the event of fire, cool tanks with water spray. Move containers from fire area if you can do it without risk. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn. Use water spray to cool unopened containers. Cool containers exposed to flames with water until well after the fire is out.
Specific methods:	In the event of fire, cool tanks with water spray. Use water spray to cool unopened containers.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Personal precautions:	Local authorities should be advised if significant spillages cannot be contained. Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. See Section 8 of the MSDS for Personal Protective Equipment.
Environmental precautions:	Prevent further leakage or spillage if safe to do so. Do not contaminate water.
Methods for containment:	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if you can do so without risk. Dike the spilled material, where this is possible. Use water spray to reduce vapors or divert vapor cloud drift. Prevent entry into waterways, sewers, basements or confined areas.

SECTION 6 — ACCIDENTAL RELEASE MEASURES (CONT.)

Methods for cleaning up: Should not be released into the environment.
 Large Spills: Dike far ahead of spill for later disposal. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.
 Small Spills: Wipe up with absorbent material (e.g. cloth, fleece).
 Never return spills to original containers for re-use. This material and its container must be disposed of as hazardous waste. Following product recovery, flush area with water. Clean surface thoroughly to remove residual contamination.

Other information: Clean up in accordance with all applicable regulations.

SECTION 7 — HANDLING AND STORAGE

Handling: May be ignited by open flame. Keep away from sources of ignition - No smoking. Avoid inhalation and contact with skin and eyes. Avoid contact during pregnancy/while nursing. Use only in area provided with appropriate exhaust ventilation. Avoid prolonged exposure. Avoid release to the environment. Handle and open container with care. See Section 8 of the MSDS for Personal Protective Equipment.

Storage: Flammable liquid storage. Follow rules for flammable liquids. Do not handle or store near an open flame, heat or other sources of ignition. Store in a cool and well-ventilated place. Keep out of the reach of children. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Keep away from food, drink and animal feedingstuffs. Use care in handling/storage.

SECTION 8 — EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure limits:

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Acetone (67-64-1)	STEL	750 ppm	
	TWA	500 ppm	
Carbon black (1333-86-4)	TWA	3.5 mg/m3	
	STEL	300 ppm	
Methyl ethyl ketone (78-93-3)	TWA	200 ppm	
	TWA	2 mg/m3	Respirable fraction.
Talc (14807-96-6)	TWA	150 ppm	
Xylene (1330-20-7)	STEL	150 ppm	
	TWA	100 ppm	

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value	Form
Acetone (67-64-1)	PEL	1000 ppm	
		2400 mg/m3	
Carbon black (1333-86-4)	PEL	3.5 mg/m3	
		590 mg/m3	
Methyl ethyl ketone (78-93-3)	PEL	200 ppm	
		0.3 mg/m3	Total dust.
Talc (14807-96-6)	TWA	2.4 mppcf	Respirable.
		0.1 mg/m3	Respirable.
		20 mppcf	
		435 mg/m3	
Xylene (1330-20-7)	PEL	100 ppm	

Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

Components	Type	Value	Form
Acetone (67-64-1)	STEL	750 ppm	
	TWA	1800 mg/m3	
Carbon black (1333-86-4)	TWA	1200 mg/m3	
	STEL	500 ppm	
Methyl ethyl ketone (78-93-3)	TWA	3.5 mg/m3	
	STEL	300 ppm	
Talc (14807-96-6)	TWA	885 mg/m3	
		590 mg/m3	
		200 ppm	
		2 mg/m3	Respirable particles.

SECTION 8 — EXPOSURE CONTROLS / PERSONAL PROTECTION (CONT.)

Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Components	Type	Value	Form
Acetone (67-64-1)	STEL	500 ppm	
	TWA	250 ppm	
Carbon black (1333-86-4)	TWA	3.5 mg/m3	
Methyl ethyl ketone (78-93-3)	STEL	100 ppm	
	TWA	50 ppm	
Talc (14807-96-6)	TWA	2 mg/m3	Respirable.
Xylene (1330-20-7)	STEL	150 ppm	
	TWA	100 ppm	

Canada. Ontario OELs. (Ministry of Labor - Control of Exposure to Biological or Chemical Agents)

Components	Type	Value	Form
Acetone (67-64-1)	STEL	750 ppm	
	TWA	500 ppm	
Carbon black (1333-86-4)	TWA	3.5 mg/m3	
Methyl ethyl ketone (78-93-3)	STEL	885 mg/m3	
	TWA	300 ppm	
Talc (14807-96-6)	TWA	590 mg/m3	
	TWA	200 ppm	Respirable.
Xylene (1330-20-7)	STEL	2 mg/m3	
	TWA	2 fibers/ml	
Xylene (1330-20-7)	STEL	150 ppm	
	TWA	650 mg/m3	
	TWA	435 mg/m3	
		100 ppm	

Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)

Components	Type	Value	Form
Acetone (67-64-1)	STEL	1000 ppm	
	TWA	2380 mg/m3	
Carbon black (1333-86-4)	TWA	1190 mg/m3	
	TWA	500 ppm	
Methyl ethyl ketone (78-93-3)	STEL	3.5 mg/m3	
	TWA	300 mg/m3	
Talc (14807-96-6)	TWA	100 ppm	
	TWA	150 mg/m3	
Xylene (1330-20-7)	STEL	50 ppm	
	TWA	3 mg/m3	Respirable dust.
Xylene (1330-20-7)	STEL	150 ppm	
	TWA	651 mg/m3	
	TWA	434 mg/m3	
		100 ppm	

Mexico. Occupational Exposure Limit Values

Components	Type	Value	Form
Acetone (67-64-1)	STEL	3000 mg/m3	
	TWA	1260 ppm	
Carbon black (1333-86-4)	TWA	1000 ppm	
	STEL	2400 mg/m3	
Methyl ethyl ketone (78-93-3)	TWA	7 mg/m3	
	STEL	3.5 mg/m3	
Talc (14807-96-6)	STEL	885 mg/m3	
	TWA	300 ppm	
Xylene (1330-20-7)	TWA	590 mg/m3	
	STEL	200 ppm	
Xylene (1330-20-7)	TWA	2 fibers/cm3	
	STEL	150 ppm	
Xylene (1330-20-7)	TWA	655 mg/m3	
	TWA	435 mg/m3	
		100 ppm	

SECTION 8 — EXPOSURE CONTROLS / PERSONAL PROTECTION (CONT.)

Engineering controls: Ensure adequate ventilation, especially in confined areas. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Personal protective equipment

Eye / face protection: Wear safety glasses with side shields (or goggles).

Skin protection: Wear protective gloves. Wear appropriate chemical resistant clothing. Wear chemical protective equipment that is specifically recommended by the manufacturer.

Respiratory protection: Wear positive pressure self-contained breathing apparatus (SCBA). Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection.

General hygiene considerations: Avoid contact with eyes. Avoid contact with skin. Keep away from food and drink. Handle in accordance with good industrial hygiene and safety practices. Always observe national occupational health and hygiene requirements including requirements for medical surveillance.

SECTION 9 — PHYSICAL & CHEMICAL PROPERTIES

Appearance:	Black liquid.
Color:	Black.
Odor:	Solvent-like.
Odor threshold:	Not available.
Physical state:	Liquid.
Form:	Liquid.
pH:	Not available.
Melting point:	Not available.
Freezing point:	Not available.
Boiling point:	Not available.
Flash point:	60.8 °F (16 °C) Setaflash Closed Tester
Evaporation rate:	Not available.
Flammability limits in air, upper, % by volume:	< 11.5
Flammability limits in air, lower, % by volume:	> 0.3
Vapor pressure:	Not available.
Vapor density:	Not available.
Specific gravity:	Not available.
Solubility (water):	Not miscible.
Partition coefficient: (n-octanol/water)	Not available.
Auto-ignition temperature:	Not available.
Decomposition temperature:	Not available.
Viscosity:	1800 cP

SECTION 10 — CHEMICAL STABILITY & REACTIVITY INFORMATION

Chemical stability:	Material is stable under normal conditions.
Conditions to avoid:	Heat, flames and sparks. Contact with incompatible materials.
Incompatible materials:	Amines. Ammonia. Caustics. Isocyanates. Strong acids. Strong oxidizing agents.
Hazardous decomposition products:	No hazardous decomposition products are known.

SECTION 11 — TOXICOLOGICAL INFORMATION

Toxicological data

Components

Test Results

Xylene (1330-20-7)

Acute Oral LD50 Mouse: 1590 mg/kg
Acute Oral LD50 Rat: 6670 mg/kg

Carbon black (1333-86-4)

Acute Oral LD50 Rat: > 8000 mg/kg

Methyl ethyl ketone (78-93-3)

Acute Dermal LD50 Rabbit: > 8000 mg/kg
Acute Inhalation LC50 Rat: 11700 mg/l 4 Hours
Acute Oral LD50 Rat: 2300 - 3500 mg/kg

Acute effects:

Irritating to eyes and skin. May be harmful if inhaled and swallowed. Vapors may cause drowsiness and dizziness.

Local effects:

Components of the product may be absorbed into the body through the skin. Blood disorder may occur after ingestion. Liver toxicity. Irritating to skin. Irritating to respiratory system. Irritating to eyes and skin.

Sensitization:

May cause allergic skin reaction.

Chronic effects:

Prolonged exposure may cause chronic effects. Prolonged or repeated exposure may cause lung injury. Repeated absorption may cause disorder of central nervous system, liver, kidneys and blood. Repeated exposure may cause skin dryness or cracking.

Subchronic effects:

Kidney injury may occur.

Carcinogenicity:

Hazardous by OSHA criteria. Risk of cancer cannot be excluded with prolonged exposure.

ACGIH Carcinogens

Acetone (CAS 67-64-1)

A4 Not classifiable as a human carcinogen.

Carbon black (CAS 1333-86-4)

A4 Not classifiable as a human carcinogen.

Talc (CAS 14807-96-6)

A4 Not classifiable as a human carcinogen.

Xylene (CAS 1330-20-7)

A4 Not classifiable as a human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

Carbon black (CAS 1333-86-4)

2B Possibly carcinogenic to humans.

Talc (CAS 14807-96-6)

2B Possibly carcinogenic to humans.

Vinyl chloride - vinyl acetate copolymer (CAS 9003-22-9)

3 Not classifiable as to carcinogenicity to humans.

Xylene (CAS 1330-20-7)

3 Not classifiable as to carcinogenicity to humans.

3 Not classifiable as to carcinogenicity to humans.

Epidemiology:

Hazardous by OSHA criteria.

Mutagenicity:

Not available.

Neurological effects:

Hazardous by OSHA criteria.

Reproductive effects:

Components in this product have been shown to cause birth defects and reproductive disorders in laboratory animals.

Teratogenicity:

Components in this product have been shown to cause birth defects and reproductive disorders in laboratory animals.

Further information:

Symptoms may be delayed.

SECTION 12 — ECOLOGICAL INFORMATION

Ecotoxicological data

Components

Test Results

Acetone (67-64-1)

LC50 Fathead minnow (*Pimephales promelas*): > 100 mg/l 96 hours

Methyl ethyl ketone (78-93-3)

LC50 Sheepshead minnow (*Cyprinodon variegatus*): > 400 mg/l 96 hours

Ecotoxicity:

Components of this product are hazardous to aquatic life. Contains a substance which causes risk of hazardous effects to the environment.

Environmental effects:

Harmful to aquatic organisms. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Persistence and degradability:

Not available.

Bioaccumulation / Accumulation:

No data available.

Partition coefficient (n-octanol/water):

No data available.

Mobility in environmental media:

The product is insoluble in water.

SECTION 13 — DISPOSAL CONSIDERATIONS

Waste codes: D001: Waste Flammable material with a flash point <140 °F
 D035: Waste Methyl ethyl ketone

Disposal instructions: This material and its container must be disposed of as hazardous waste. Incinerate the material under controlled conditions in an approved incinerator. Do not incinerate sealed containers. Do not allow this material to drain into sewers/water supplies.

Waste from residues / unused products: Dispose in accordance with applicable federal, state, and local regulations.

SECTION 14 — TRANSPORT INFORMATION

Product Specific Note: This product meets the limited quantities exception as follows:
 DOT: Consumer Commodity ORM-D up to 1 liter.
 IMDG: Limited quantities up to 1 liter.
 Otherwise, the following descriptions apply:

DOT

Basic shipping requirements:
UN number: UN1993
Proper shipping name: Flammable liquids, n.o.s. (Acetone, Methyl ethyl ketone)
Hazard class: 3
Packing group: II
Labels required: 3

Additional information:
Special provisions: IB2, T7, TP1, TP8, TP28
Packaging exceptions: 150
Packaging non bulk: 202
Packaging bulk: 242
ERG number: 128

IATA

Basic shipping requirements:
UN number: 1993
Proper shipping name: Flammable liquid, n.o.s. (Acetone, Methyl ethyl ketone)
Hazard class: 3
Packing group: II

Additional information:
ERG code: 3L

IMDG

Basic shipping requirements:
UN number: 1993
Proper shipping name: Flammable liquid, N.O.S. (Acetone, Methyl ethyl ketone)
Hazard class: 3
Packing group: II
EmS No.: F-E, S-E*

TDG

Basic shipping requirements:
Proper shipping name: Flammable liquid, N.O.S. (Acetone, Methyl ethyl ketone)
Hazard class: 3
UN number: UN1993
Packing group: II
Marine pollutant: No

Additional information:
Special provisions: 16



SECTION 15 — REGULATORY INFORMATION

US federal regulations: This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
All components are on the U.S. EPA TSCA Inventory List.

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration

Xylene (CAS 1330-20-7) 1.0 %

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

Xylene (CAS 1330-20-7) Listed.

CERCLA (Superfund) reportable quantity (lbs)

Methyl ethyl ketone 5000
Xylene 1000
Acetone 5000

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories: Immediate Hazard - Yes
Delayed Hazard - Yes
Fire Hazard - Yes
Pressure Hazard - No
Reactivity Hazard - No

Section 302 extremely hazardous substance: No

Section 311 hazardous chemical: No

Drug Enforcement Agency (DEA): Not controlled

Canadian regulations: This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

WHMIS status: Controlled

WHMIS classification: B2 - Flammable/Combustible
D1B - Immediate/Serious-TOXIC
D2A - Other Toxic Effects-VERY TOXIC
D2B - Other Toxic Effects-TOXIC

WHMIS labeling:



Inventory status

Country(s) or region:	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

State regulations WARNING: This product contains a chemical known to the State of California to cause cancer.

US - California Hazardous Substances (Director's): Listed substance

Acetone (CAS 67-64-1) Listed.
Carbon black (CAS 1333-86-4) Listed.
Methyl ethyl ketone (CAS 78-93-3) Listed.
Talc (CAS 14807-96-6) Listed.
Xylene (CAS 1330-20-7) Listed.

SECTION 15 — REGULATORY INFORMATION (CONT.)

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Carbon black (CAS 1333-86-4) Listed.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Carbon black (CAS 1333-86-4) Listed: February 21, 2003 Carcinogenic.

US - Massachusetts RTK - Substance: Listed substance

Acetone (CAS 67-64-1) Listed.
 Carbon black (CAS 1333-86-4) Listed.
 Methyl ethyl ketone (CAS 78-93-3) Listed.
 Talc (CAS 14807-96-6) Listed.

US - New Jersey Community RTK (EHS Survey): Reportable threshold

Xylene (CAS 1330-20-7) 500 LBS

US - New Jersey RTK - Substances: Listed substance

Acetone (CAS 67-64-1) Listed.
 Carbon black (CAS 1333-86-4) Listed.
 Methyl ethyl ketone (CAS 78-93-3) Listed.
 Talc (CAS 14807-96-6) Listed.
 Xylene (CAS 1330-20-7) Listed.

US - Pennsylvania RTK - Hazardous Substances: Listed substance

Acetone (CAS 67-64-1) Listed.
 Carbon black (CAS 1333-86-4) Listed.
 Methyl ethyl ketone (CAS 78-93-3) Listed.
 Talc (CAS 14807-96-6) Listed.
 Xylene (CAS 1330-20-7) Listed.

SECTION 16 — OTHER INFORMATION

Further information:	HMIS® is a registered trade and service mark of the NPCA.
HMIS® ratings:	Health: 2* Flammability: 4 Physical hazard: 0
NFPA ratings:	Health: 2 Flammability: 4 Instability: 0
Disclaimer:	The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Chromate Industrial Corp. assumes no responsibility for injury to the vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, Chromate Industrial Corp. assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in his use of the material.

Product Name	Little Twig - Baby Oil		EU/EN
MSDS Number	10JA11-235	Issuing Date	April 22, 2015

Safety Data Sheet In Accordance with 2001/58/EC

1. Identification of the substance/preparation and the company/undertaking

Product Name

Little Twig - Baby Oil

Manufacturer

Kittrich Corp., dba Little twig
1585 W. Mission Blvd
Pomona, CA 91766
USA

Product information

See certificate of analysis

Emergency telephone number

(800) 424-9300

End use:

Personal Care

2. Composition / information on ingredients

Chemical characterization A blend of natural & essential oils

3. Hazards identification

Statement of hazard The product does not require a hazard warning label in accordance with EC Directives

No known hazards to skin, mild eye irritation may occur
Observe the usual precautions when handling chemicals

4. First aid measures

General Information Soiled material can be washed and removed in non-hazardous fashion

Inhalation No inhalation hazard

Skin Rinse with soap and water

Eyes Rinse for 10-15 minutes. If symptoms persist Call a Physician

Product Name	Little Twig - Baby Oil		EU/EN
MSDS Number	10JA11-235	Issuing Date	April 22, 2015

Safety Data Sheet In Accordance with 2001/58/EC

Ingestion May cause irritation, discomfort, nausea

Notes to physician

Main symptoms None known

Treatment Treat Symptomatically

5. Fire-fighting measures

Suitable extinguishing media

Foam. Dry powder. Carbon dioxide (CO₂). Water spray

Extinguishing media which must not be used for safety reasons

Do not use a solid water stream as it may scatter and spread fire

Special exposure hazards arising from the substance or preparation itself, its combustion, or released gases

None known

Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

Environmental precautions

Dike and collect water used to fight fire.

Other Information

This is a water based product and presents no particular fire or explosion hazard.

6. Accidental release measures

Personal precautions

None known

Environmental precautions

Do not allow material to contaminate ground water system. Product is safe for general sewer system

Methods for cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal. Contaminated equipment (brush, rags) must be cleaned immediately with water. Dispose of in accordance with local regulations.

7. Handling and storage

Handling

Product Name	Little Twig - Baby Oil		EU/EN
MSDS Number	10JA11-235	Issuing Date	April 22, 2015

Safety Data Sheet In Accordance with 2001/58/EC

Advice on safe handling

No special measures required

Protection - fire and explosion

No special measures required

Storage

Material Storage - IMPORTANT: must be stored below 25°C

To maintain product quality, do not store in heat or direct sunlight. Keep at temperatures between 5 and 25°C

Technical measures/Storage conditions

Keep tightly closed in a dry and cool place. No special technical protective measures required.

Incompatible products

No special restrictions on storage with other products

German storage class

12: Non-combustible liquids

8. Exposure controls / personal protection

National occupational exposure limits (Germany)

No exposure limits established

ACGIH Exposure Limits

Exposure controls

Engineering measures No special measures required

Personal protective equipment

General advice Avoid contact with eyes

Hygiene measures Wash hands before breaks and at the end of the workday. When using, do not eat, drink or smoke. Take off all contaminated clothing immediately. Wash contaminated clothing before re-use.

Eye protection Safety Glasses

Product Name	Little Twig - Baby Oil	Issuing Date	EU/EN April 22, 2015
MSDS Number	10JA11-235		

Safety Data Sheet In Accordance with 2001/58/EC

Hand protection

Chemicals resistant gloves

Suitable material Rubber gloves recommended, but not required
Type

9. Physical and chemical properties

Appearance

Form Liquid Oil
Colour Yellow
Odor Lavender

Flash point Not Applicable

Melting point/range Not Applicable

Boiling point/range Not Applicable

pH Not Applicable

Viscosity Not Applicable

vapor pressure Not Applicable

Water solubility 0%

10. Stability and reactivity

Stability Stable under recommended storage conditions

Conditions to avoid Do not freeze

Materials to avoid None known

Thermal decomposition No known hazardous decomposition

Hazardous reactions No hazards to be especially mentioned

11. Toxicological information

Toxicological data are not available. Observe the usual hygienic measures for handling chemicals.

12. Ecological information

Ecotoxicological data are not available. According to experience, the material has no harmful effect on the environment.

Product Name	Little Twig - Baby Oil		EU/EN
MSDS Number	10JA11-235	Issuing Date	April 22, 2015

Safety Data Sheet In Accordance with 2001/58/EC

13. Disposal Considerations

Product information	Disposal required in the compliance with all waste management related state and local regulations. The choice of the appropriate method of disposal depends on the product composition by the time of disposal as well as the local statutes and possibilities for disposal. Diluted solution may be introduced into a biological purification plant, with permission of the responsible authorities.
Uncleaned empty packaging	Contaminate packaging should be emptied as far as possible and after appropriate cleansing may be taken for re-use. Regulation concerning re-use or disposal of used packaging materials must be observed.
European Waste Catalogue	Allocation of a waste code number, according to the European Waste Catalogue (EWC) should be carried out in agreement with the regional waste disposal company.

14. Transport information

ADR/RID	Not regulated
ADNR	Not regulated
ICAO/IATA	Not regulated
IMDG	Not regulated

15. Regulatory information

Labeling in accordance with EC directives

The product does not require a hazard warning label in accordance with EC directives / the relevant national laws.

Water Hazard Class (WGK):

WGK Class	1
WGK Reg-Nr.	NA
WGK Source	Classification according to VmVmS, Annex 1 or 2

16. Other information

For further information, see:

For more information please see certificate of analysis

Product Name	Little Twig - Baby Oil		EU/EN
MSDS Number	10JA11-235	Issuing Date	April 22, 2015

Safety Data Sheet In Accordance with 2001/58/EC

Other Information

Product is safe to use on skin. Use as directed.

Changes against the previous version are marked by ***

Sources of key data used to compile the datasheet

Information contained in this safety data sheet is based on public sources deemed valid or acceptable. The absence of data elements required by ANSI or 2001/58/EC indicates, that no data meeting these requirements is available.

Further information

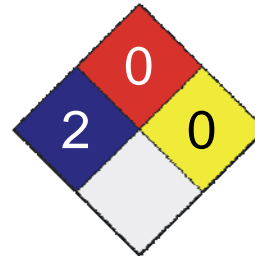
This information is based on our present state of knowledge. It shall describe our products regarding safety requirements and shall not be construed as a guarantee or statement of condition and/or quality.

1. Product and Company Identification

Product Name LYSOL® Brand III All Purpose Cleaner 4 in 1 - Trigger - (All Scents, All Sizes)
CAS # Mixture
Product Use Disinfectant
Distributed by Reckitt Benckiser (Canada) Inc.
 1680 Tech Avenue Unit #2
 Mississauga, ON L4W 5S9
 In Case of Emergency: 1-800-338-6167
 Transportation Emergencies: 24 Hour Number:
 North America: CHEMTREC: 1-800-424-9300
 Outside North America: 1-703-527-3887

LEGEND HMIS/NFPA	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

Health	/ 2
Flammability	0
Physical Hazard	0
Personal Protection	B



2. Hazards Identification

Emergency Overview

This product is regulated by Health Canada as a disinfectant. Extensive testing has been completed to show that it is safe and effective when used as directed.

CAUTION
CAUSES EYE IRRITATION.
 Avoid contact with eyes, skin or clothing.
 Wash thoroughly with soap and water after handling.
 Do not ingest.

Keep out of reach of children.

Potential short term health effects

Routes of exposure

Eye, Skin contact, Inhalation, Ingestion.

Eyes

Moderate eye irritation.

Skin

None expected under normal use.
Not expected to be a skin sensitizer.

Inhalation

None expected during normal conditions of use.

Ingestion

Health injuries are not known or expected under normal use.
Do not ingest.

Target organs

Skin. Eyes.

Chronic effects

The finished product is not expected to have chronic health effects.

Signs and symptoms

Symptoms may include redness, oedema, drying, defatting and cracking of the skin.
Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Potential environmental effects

See section 12.

3. Composition/Information on Ingredients

Ingredient(s)	CAS #	Percent
Sulfonic acids, petroleum, sodium salts	68608-26-4	0.5 - 1.5
Alcohols, C9-11, ethoxylated	68439-46-3	0.5 - 1.5
Lactic Acid	79-33-4	1 - 5
Dipropylene glycol monobutyl ether	29911-28-2	1 - 5

4. First Aid Measures

First aid procedures

Eye contact	If in eyes, hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
Skin contact	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Get medical attention if irritation develops and persists.
Inhalation	Move to fresh air. If symptoms persist, call a physician.
Ingestion	If swallowed, rinse mouth with water (only if the person is conscious). DO NOT INDUCE VOMITING. Call a physician or Poison Control Center IMMEDIATELY.

Notes to physician

Treat patient symptomatically.

General advice

If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.

5. Fire-fighting Measures

Flammable properties

Not flammable by WHMIS criteria.

Extinguishing media

Suitable extinguishing media Treat for surrounding material.

Unsuitable extinguishing media Not available

Protection of firefighters

Specific hazards arising from the chemical Not available

Protective equipment for firefighters Firefighters should wear full protective clothing including self contained breathing apparatus.

Hazardous combustion products

May include and are not limited to: Oxides of carbon.

Explosion data

Sensitivity to mechanical impact Not available

Sensitivity to static discharge Not available

6. Accidental Release Measures

Personal precautions

Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.

Environmental precautions

Do not discharge into lakes, streams, ponds or public waters.

Methods for containment

Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas.

Methods for cleaning up

Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. Never return spills in original containers for re-use.

7. Handling and Storage

Handling

Ensure adequate ventilation.
Avoid contact with eyes, skin and clothing.
Use good industrial hygiene practices in handling this material.
Wash hands before breaks and immediately after handling the product.
Do not reuse the empty container.
Remove and wash contaminated clothing before re-use.

Storage

Store in a closed container away from incompatible materials.
Store in original container in areas inaccessible to small children.
Keep out of reach of children.

8. Exposure Controls / Personal Protection

Exposure limit values

Ingredient(s)	Exposure limit values
Alcohols, C9-11, ethoxylated	ACGIH-TLV Not established
Dipropylene glycol monobutyl ether	ACGIH-TLV Mist: 10 mg/m3
Lactic Acid	ACGIH-TLV Not established
Sulfonic acids, petroleum, sodium salts	ACGIH-TLV Not established

Engineering controls

General ventilation normally adequate.

Personal protective equipment

Eye/Face protection

Wear safety glasses with side shields.
Emergency responders should wear full eye and face protection.

Hand protection

No special requirements under normal use conditions.
For sensitive skin or prolonged use, wear rubber gloves.
Emergency responders should wear impermeable gloves.

Skin and body protection

As required by employer code.
Usual safety precautions while handling the product will provide adequate protection against injury or irritation.
Follow label directions carefully.

Respiratory protection

Not normally required under normal use conditions.
Emergency responders should wear self-contained breathing apparatus (SCBA) to avoid inhalation of vapours generated by this product during a spill or other clean-up operations.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.
When using do not eat or drink.
Washing with soap and water after use is recommended as good hygienic practice to prevent possible eye irritation from hand contact.

9. Physical and Chemical Properties

Appearance	Clear
Colour	Yellow Green Orange
Form	aqueous solution
Odour	Floral Fruity Fresh
Odour threshold	Not available
Physical state	Liquid
pH	2.9 - 3.3
Freezing point	Not available
Boiling point	Not available
Pour point	Not available
Evaporation Rate	Not available
Flash point	> 93.33 °C (> 200 °F) Tagliabue
Auto-ignition temperature	Not available
Flammability limits in air, lower, % by volume	Not available
Flammability Limits in Air, Upper, % by Volume	Not available
Vapour pressure	Not available
Vapour density	Not available

Specific gravity	1.005 - 1.015
Octanol/water coefficient	Not available
Solubility (H2O)	Complete

10. Stability and Reactivity

Reactivity	This product may react with strong oxidizing agents.
Possibility of hazardous reactions	Hazardous polymerisation does not occur.
Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	DO NOT MIX WITH BLEACH or use in conjunction with other household products.
Incompatible materials	Caustics. Acids. Oxidizers.
Hazardous decomposition products	May include and are not limited to: Oxides of carbon.

11. Toxicological Information

Component analysis - LC50

Ingredient(s)	LC50
Alcohols, C9-11, ethoxylated	5 mg/l/4h rat
Dipropylene glycol monobutyl ether	Not available
Lactic Acid	Not available
Sulfonic acids, petroleum, sodium salts	Not available

Component analysis - Oral LD50

Ingredient(s)	LD50
Alcohols, C9-11, ethoxylated	1200 mg/kg rat
Dipropylene glycol monobutyl ether	3700 mg/kg rat
Lactic Acid	1810 mg/kg guinea pig; 3543 mg/kg rat; 4875 mg/kg mouse
Sulfonic acids, petroleum, sodium salts	2000 mg/kg rat

Effects of acute exposure

Eye	Moderate eye irritation.
Skin	None expected under normal use. Not expected to be a skin sensitizer.
Inhalation	None expected during normal conditions of use.
Ingestion	Health injuries are not known or expected under normal use. Do not ingest.

Sensitisation The finished product is not expected to have chronic health effects.

Chronic effects The finished product is not expected to have chronic health effects.

Carcinogenicity The finished product is not expected to have chronic health effects.

Mutagenicity The finished product is not expected to have chronic health effects.

Reproductive effects The finished product is not expected to have chronic health effects.

Teratogenicity The finished product is not expected to have chronic health effects.

Name of Toxicologically Synergistic Products Not available

12. Ecological Information

Ecotoxicity See below

Ecotoxicity - Freshwater Algae - Acute Toxicity Data

Lactic Acid 79-33-4 70 Hr EC50 Pseudokirchneriella subcapitata: 3.5 mg/L

Ecotoxicity - Freshwater Fish - Acute Toxicity Data

Dipropylene glycol monobutyl ether 29911-28-2 96 Hr LC50 Poecilia reticulata: 841 mg/L [static]

Lactic Acid 79-33-4 96 Hr LC50 Brachydanio rerio: 320 mg/L [semi-static]; 96 Hr LC50 Lepomis macrochirus: 100-180 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 100-180 mg/L [static]

Ecotoxicity - Water Flea - Acute Toxicity Data

Lactic Acid 79-33-4 48 Hr EC50 Daphnia magna: 240 mg/L; 48 Hr EC50 Daphnia magna: 180 - 320 mg/L [Static]

Persistence and degradability	Not available
Bioaccumulation/accumulation	Not available
Mobility in environmental media	Not available
Environmental effects	Not available
Aquatic toxicity	Not available
Partition coefficient	Not available
Chemical fate information	Not available
Other adverse effects	Not available

13. Disposal Considerations

Disposal instructions	Dispose in accordance with all applicable regulations. Small quantities of waste liquid may be discharged into a sanitary sewer. Discard any absorbed material in trash collection. Rinse empty container thoroughly and discard in trash or recycle.
Waste from residues / unused products	Not available
Contaminated packaging	Not available

14. Transport Information

UN/ID N.o. Not applicable

U.S. Department of Transportation (DOT): Classification: Not regulated

Proper shipping name Not applicable

U.S. DOT Hazard Class Not applicable

Subsidiary Risk Not applicable

Packing group Not applicable

DOT RQ (lbs) Not applicable
ERG NO Not applicable

Transportation of Dangerous Goods (TDG - Canada): Classification: Not regulated

Proper shipping name Not applicable

Status Not applicable

Packing group Not applicable

IMDG (Marine Transport): Classification: Not regulated

Proper shipping name	Not applicable
Class	Not applicable
Subsidiary Risk	Not applicable
Packing group	Not applicable
IMDG Page	Not applicable
Marine pollutant	Not applicable
EMS	Not applicable
MFAG	Not applicable
Maximum Quantity	Not applicable

IATA/ICAO (Air): Classification: Not regulated

Proper shipping name	Not applicable
Class	Not applicable
Subsidiary Risk:	Not applicable
Packing group	Not applicable
Maximum Quantity	Not applicable

15. Regulatory Information

Canadian federal regulations This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Product Registration: Registered with TPD, DIN 02324105

WHMIS classification Exempt - Registered product - (DIN 02324105)

Inventory Status

Country(s) or region	Inventory Name	On Inventory (Yes/No)*
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information

Disclaimer This product should only be used as directed on the label and for the purpose intended. To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Further information LYSOL® Brand III All Purpose Cleaner 4 in 1 - Trigger - Lemon Breeze - 0305132 v1.0
 LYSOL® Brand III All Purpose Cleaner 4 in 1 - Trigger - Orange Fresh - 0320084 v2.0
 LYSOL® Brand III All Purpose Cleaner 4 in 1 - Trigger - Green Apple - 0305133 v1.0

Issue date	25-Apr-2012
Effective Date	15-Apr-2012
Expiry Date	15-Apr-2015
Prepared by	Reckitt Benckiser Regulatory Department 800-333-3899
Other Information	For an updated MSDS, please contact the supplier/matrix manufacturer listed on the first page of the document.

SAFETY DATA SHEET

Lysol Disinfecting Wipes - All Scents



HEALTH • HYGIENE • HOME

1. Product and company identification

Product name : Lysol Disinfecting Wipes - All Scents

Distributed by : Reckitt Benckiser LLC.
Morris Corporate Center IV
399 Interpace Parkway (P.O. Box 225)
Parsippany, New Jersey 07054-0225
+1 973 404 2600

Emergency telephone number (Medical) : 1-800-338-6167

Emergency telephone number (Transport) : 1-800-424-9300 (U.S. & Canada) CHEMTREC
Outside U.S. and Canada (North America), call Chemtrec:703-527-3887

Website: : <http://www.rbnainfo.com>

Product use : Surface Disinfectant.

This SDS is designed for workplace employees, emergency personnel and for other conditions and situations where there is greater potential for large-scale or prolonged exposure, in accordance with the requirements of USDOL Occupational Safety and Health Administration.

This SDS is not applicable for consumer use of our products. For consumer use, all precautionary and first aid language is provided on the product label in accordance with the applicable government regulations, and shown in Section 15 of this SDS.

SDS # : D8169502 v6.0

Formulation #: : Lysol Brand II Kills 99.9% of Viruses & Bacteria** Disinfecting Wipes
- Crisp Linen Scent
- Citrus Meadows Scent
- Lemon & Lime Blossom Scent
- Lemon Scent
- Ocean Fresh Scent
- Fresh Scent

EPA ID No. : 777-114

UPC Code / Sizes : Wipe impregnated with liquid (Loading ratio 4:1 (premix:wipe) / 35, 80 and 110 count wipe in HDPE canister)

D8169502 v6.0

2. Hazards identification

Classification of the substance or mixture : Not classified

GHS label elements

Hazard pictograms : Not applicable.

Signal word : No signal word.

Hazard statements : No known significant effects or critical hazards.

Precautionary statements

General : Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.

Prevention : Not applicable.

Response : Not applicable.

Storage : Not applicable.

Disposal : Not applicable.

Supplemental label elements : None known.

Hazards not otherwise classified : None known.

3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	%	CAS number
Ethyl alcohol	1 - 2.5	64-17-5

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4. First aid measures

Description of necessary first aid measures

Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Skin contact : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Ingestion : Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : May cause eye irritation upon direct contact with eyes.

Inhalation : No known significant effects or critical hazards.

D8169502 v6.0

4. First aid measures

Skin contact : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact : No specific data.

Ingestion : No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments : No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media : None known.

Specific hazards arising from the chemical : No specific fire or explosion hazard.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

For emergency responders : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

D8169502 v6.0

6. Accidental release measures

Methods and materials for containment and cleaning up

- Small spill** : Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

7. Handling and storage

Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8).

- Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

8. Exposure controls/personal protection

Control

Occupational exposure limits

Ingredient name	Exposure limits
Ethyl alcohol	<p>ACGIH TLV (United States, 4/2014). STEL: 1000 ppm 15 minutes.</p> <p>OSHA PEL 1989 (United States, 3/1989). TWA: 1000 ppm 8 hours. TWA: 1900 mg/m³ 8 hours.</p> <p>NIOSH REL (United States, 10/2013). TWA: 1000 ppm 10 hours. TWA: 1900 mg/m³ 10 hours.</p> <p>OSHA PEL (United States, 2/2013). TWA: 1000 ppm 8 hours. TWA: 1900 mg/m³ 8 hours.</p>

- Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

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8. Exposure controls/personal protection

- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

9. Physical and chemical properties

Appearance

- Physical state** : Solid. [Presaturated Wipes]
- Color** : Clear.
- Odor** : Characteristic.
- Odor threshold** : Not available.
- pH** : 10.5 [liquid preparations]
- Melting point** : Not available.
- Boiling point** : Not available.
- Flash point** : Closed cup: >93.3°C (>199.9°F) liquid preparations
- Evaporation rate** : Not available.
- Flammability (solid, gas)** : Not available.
- Lower and upper explosive (flammable) limits** : Not available.
- Vapor pressure** : Not available.
- Vapor density** : Not available.
- Relative density** : 0.999 [liquid preparations]
- Solubility** : Easily soluble in the following materials: cold water and hot water.
- Partition coefficient: n-octanol/water** : Not available.
- Auto-ignition temperature** : Not available.
- Decomposition temperature** : Not available.
- Viscosity** : Not available.

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10. Stability and reactivity

- Reactivity** : No specific test data related to reactivity available for this product or its ingredients.
- Chemical stability** : The product is stable.
- Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- Conditions to avoid** : No specific data.
- Incompatible materials** : No specific data.
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Ethyl alcohol	LC50 Inhalation Vapor	Rat	124700 mg/m ³	4 hours
	LD50 Oral	Rat	7 g/kg	-
*Lysol Disinfecting Wipes	LC50 Inhalation Vapor	Rat	>2.04 mg/l	24 hours
	LD50 Dermal	Rat	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-

Conclusion/Summary : Not classified Harmful. *Information is based on toxicity test result of the concentrate of a similar product.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Ethyl alcohol	Eyes - Moderate irritant	Rabbit	-	0.066666667 minutes	-
	Eyes - Mild irritant	Rabbit	-	100 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 500 milligrams	-
	Eyes - Severe irritant	Rabbit	-	100 microliters	-
	Skin - Mild irritant	Rabbit	-	500 milligrams	-
	Skin - Moderate irritant	Rabbit	-	400 milligrams	-
				24 hours 20 milligrams	-
*Lysol Disinfecting Wipes	Skin - Slight irritant	Rabbit	1.2	-	-
	Eyes - Cornea opacity	Rabbit	0	-	-

Conclusion/Summary

- Skin** : Slightly irritating to the skin. *Information is based on toxicity test result of the concentrate of a similar product.
- Eyes** : Moderately irritating to eyes. *Information is based on toxicity test result of the concentrate of a similar product.

Sensitization

Product/ingredient name	Route of exposure	Species	Result
*Lysol Disinfecting Wipes	skin	Guinea pig	Not sensitizing

Conclusion/Summary

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11. Toxicological information

Skin : Non-sensitizer to skin. *Information is based on toxicity test result of the concentrate of a similar product.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
Ethyl alcohol	-	1	-

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure : Not available.

Potential acute health effects

Eye contact : May cause eye irritation upon direct contact with eyes.
Inhalation : No known significant effects or critical hazards.
Skin contact : No known significant effects or critical hazards.
Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.
Inhalation : No specific data.
Skin contact : No specific data.
Ingestion : No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.
Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

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11. Toxicological information

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

General : No known significant effects or critical hazards.
Carcinogenicity : No known significant effects or critical hazards.
Mutagenicity : No known significant effects or critical hazards.
Teratogenicity : No known significant effects or critical hazards.
Developmental effects : No known significant effects or critical hazards.
Fertility effects : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Ethyl alcohol	Acute EC50 17.921 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Acute EC50 2000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 25500 µg/l Marine water	Crustaceans - Artemia franciscana - Larvae	48 hours
	Acute LC50 42000 µg/l Fresh water	Fish - Oncorhynchus mykiss	4 days
	Chronic NOEC 4.995 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Chronic NOEC 0.375 ul/L Fresh water	Fish - Gambusia holbrooki - Larvae	12 weeks

Persistence and degradability

Not available.

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Ethyl alcohol	-0.35	-	low

Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Other adverse effects : No known significant effects or critical hazards.

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13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

14. Transport information

Not a DOT controlled material (United States). Not a TDG-controlled material. This preparation is not classified as dangerous according to international transport regulations (ADR/RID, IMDG or ICAO/IATA).

15. Regulatory information

U.S. Federal regulations : **TSCA 4(a) proposed test rules:** Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides
TSCA 8(a) PAIR: 2-methylpropan-2-ol; nonanal; decanal; 3-p-cumenyl-2-methylpropionaldehyde; octanal; dodecanal; 2-(4-tert-butylbenzyl)propionaldehyde; α -hexylcinnamaldehyde
TSCA 8(a) CDR Exempt/Partial exemption: Not determined
United States inventory (TSCA 8b): All components are listed or exempted.

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Not listed

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : Not applicable.

Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Ethyl alcohol	1 - 2.5	Yes.	No.	No.	Yes.	No.

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15. Regulatory information

State regulations

- Massachusetts** : The following components are listed: ETHYL ALCOHOL
- New York** : None of the components are listed.
- New Jersey** : The following components are listed: ETHYL ALCOHOL; ALCOHOL
- Pennsylvania** : The following components are listed: DENATURED ALCOHOL

Canada

- WHMIS (Canada)** : Not controlled under WHMIS (Canada).

Canadian lists

- Canadian NPRI** : The following components are listed: Ethanol
- CEPA Toxic substances** : None of the components are listed.
- Canada inventory** : All components are listed or exempted.

Label elements

- Signal word:** : CAUTION
- Hazard statements** : May cause eye irritation.
- Precautionary measures** : Avoid contact with eyes. Wash hands after use.
Keep out of reach of children.

16. Other information

Hazardous Material Information System (U.S.A.) :

Health	1
Flammability	1
Physical hazards	0
Personal protection	B

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.) :



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16. Other information

Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

Key to abbreviations :

- ATE = Acute Toxicity Estimate
- BCF = Bioconcentration Factor
- GHS = Globally Harmonized System of Classification and Labelling of Chemicals
- IATA = International Air Transport Association
- IBC = Intermediate Bulk Container
- IMDG = International Maritime Dangerous Goods
- LogPow = logarithm of the octanol/water partition coefficient
- MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
- UN = United Nations

Date of issue : 5/26/2016

Date of previous issue : 03/07/2014.

Version : 6

Prepared by : Reckitt Benckiser LLC.
Product Safety Department
1 Philips Parkway
Montvale, New Jersey 07646-1810 USA.
FAX: 201-476-7770

Revision comments : Update as per US GHS.

☑ Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.



RB is a member of the CSPA Product Care Product Stewardship Program.



SAFETY DATA SHEET

Issue Date No data available

Revision Date 18-May-2015

Version 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Liquid Dish Soap

Product Code MSDS-Q

Recommended Use Consumer use
Cleaning agent

Supplier Address

Method Products Inc.
637 Commercial St
Suite 300
San Francisco, CA 94111
866-963-8463

Emergency Telephone Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

Emergency Overview

The product contains no substances which at their given concentration, are considered to be hazardous to health

Appearance translucent, colorless **Physical state** Liquid. **Odor** Pleasant

Potential health effects

Principle Routes of Exposure Skin Contact

Acute toxicity

Eyes Not an expected route of exposure. Direct contact with eyes poses risk of serious damage
Skin Irritating to skin . May cause inflammation . Avoid prolonged or repeated contact with skin
Inhalation Not an expected route of exposure.
Ingestion Not an expected route of exposure. Intentional ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea

CHRONIC EFFECTS No known effect based on information supplied

Aggravated Medical Conditions Skin disorders

Environmental hazard See Section 12: Ecological Information

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Sodium Lauryl Sulfate	151-21-3, 68585-47-7	10-30
D-Glucopyranose, oligomeric, C10-16-alkyl glycosides	110615-47-9	7-13

4. FIRST AID MEASURES

General advice If symptoms persist, call a physician.

Eye Contact In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice

Skin Contact Wash off immediately with plenty of water.

Inhalation Remove to fresh air.

Ingestion Do NOT induce vomiting. Clean mouth with water and drink plenty of water. Get medical attention

Note to physicians Treat symptomatically

Self-protection of the first aider Use personal protective equipment as required

5. FIRE-FIGHTING MEASURES

Flammable properties Not flammable

Flash Point Method Not determined

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

Explosion data

Sensitivity to Mechanical Impact None

Sensitivity to Static Discharge None

Protective equipment and precautions for firefighters Wear self contained breathing apparatus for fire fighting if necessary

NFPA	Health hazards 1	Flammability 0	Stability 0	Physical and Chemical Properties -
HMIS	Health hazards 1	Flammability 0	Physical hazards 0	Personal protection -

6. ACCIDENTAL RELEASE MEASURES

Personal precautions Avoid contact with eyes.

Environmental precautions Avoid release to the environment

Methods for containment Prevent further leakage or spillage if safe to do so

Methods for cleaning up Take up mechanically, placing in appropriate containers for disposal.

7. HANDLING AND STORAGE

Advice on safe handling Avoid contact with eyes. Keep container closed when not in use.

Storage Conditions Keep out of the reach of children. Keep in a dry, cool and well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

For Household Settings This product is safe for consumers and other users under normal and reasonably foreseen use.

For Occupational Settings Use safety goggles if splash hazards exist. Avoid prolonged contact with skin and clothing. Always follow good hygienic work practices.

Skin protection Rubber gloves

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state Liquid
Odor Pleasant **Color** colorless and translucent

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	7.0 - 8.0	
Melting point / freezing point	< 0 °C	
Boiling point / boiling range	> 100 °C	
Flash Point		
Evaporation rate	> 1.0 (water = 1)	
Flammability (solid, gas)		
Flammability Limit in Air		
Upper Flammability Limit	Not flammable	
Lower flammability limit	Not flammable	
Vapor pressure	Not established	
Vapor density	Not established	
Specific Gravity	1.03	
Water solubility	completely soluble	
Autoignition temperature	Not Applicable	
Decomposition temperature	Not established	
Kinematic viscosity	Not Determined	
Dynamic viscosity	400 - 600 cP @ 20°C	
Explosive properties	Not an explosive	
Oxidizing properties	Not Applicable	
VOC Content (%)	5.4	
Bulk density	No information available	

10. STABILITY AND REACTIVITY

Stability Stable under recommended storage conditions

Incompatible materials None known based on information supplied

Conditions to Avoid None known based on information supplied

Hazardous Decomposition Products None known based on information supplied

Hazardous polymerization Hazardous polymerization does not occur

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product Information Product does not present an acute toxicity hazard based on known or supplied information

Eye Contact Direct contact with eyes poses risk of serious damage

Skin Contact Prolonged contact may cause redness and irritation.

Ingestion Intentional ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium Lauryl Sulfate	= 977 mg/kg (Rat)	= 580 mg/kg (Rat)	

Chronic toxicity

Target Organ Effects Not expected

12. ECOLOGICAL INFORMATION

Ecotoxicity

Considering the limited amount applied during normal use and the size of the container, the risk of adverse environmental effects is considered small.

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Sodium Lauryl Sulfate	117: 96 h Pseudokirchneriella subcapitata mg/L EC50	10.2 - 22.5: 96 h Pimephales promelas mg/L LC50 semi-static 4.3 - 8.5: 96 h Oncorhynchus mykiss mg/L LC50 static	1.8: 48 h Daphnia magna mg/L EC50
Citric Acid Solution			120: 72 h Daphnia magna mg/L EC50

Persistence and degradability The surface active components used in this product fulfill all of the biodegradability requirements of EC regulation 648/2004 (Detergents Regulation).

Chemical Name	Partition coefficient
Sodium Lauryl Sulfate	1.6

13. DISPOSAL CONSIDERATIONS

Contaminated packaging Dispose of in accordance with federal, state and local regulations. Recover or recycle if possible.

14. TRANSPORT INFORMATION

DOT Not regulated

TDG Not regulated

<u>MEX</u>	Not regulated
<u>ICAO (air)</u>	Not regulated
<u>IATA</u>	Not regulated
<u>IMDG</u>	Not regulated
<u>RID</u>	Not regulated
<u>ADR</u>	Not regulated
<u>ADN</u>	Not regulated

15. REGULATORY INFORMATION

International Inventories

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Sulfuric acid, mono-C10-16-alkyl esters, sodium salts	Present	X		Present		Present	X	Present	X	X
Sodium Lauryl Sulfate	Present	X		Present		Present	X	Present	X	X
D-Glucopyranose, oligomeric, C10-16-alkyl glycosides	Present	X				Present	X	Present	X	X

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

US State Regulations

California Proposition 65

Complies

U.S. State Right-to-Know Regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania
Ethanol	X	X	X
Glycerin	X	X	X

International Regulations**Canada**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class

Non-controlled

16. OTHER INFORMATION**Revision Date**

18-May-2015

Revision Note

No information available

End of Safety Data Sheet



Nilotron, Metered, Vanilla

SECTION I: GENERAL INFORMATION

Product Name: Nilotron, Metered, Vanilla
Product Type: Air freshener

WHMIS Classification: B 5. RMTG: Ltd Qty/Consumer Commodity

SECTION II: HAZARDOUS INGREDIENTS

Ingredients	%weight	CAS #	Toxicity
2-Propanone	15-40	67-64-1	LD-50 > 5800 mg/kg, oral, rat. On Ingredients Disclosure List.
Propane	15-40	74-98-6	Simple Asphyxiant. Flammable gas.
Diethylene Glycol Monoethyl Ether	15-40	111-90-0	LD-50 6500 mg/kg, oral, rat. On Ingredients Disclosure List.
Butane	5-10	106-97-8	LC-50 0.658 mg/L. On Ingredients Disclosure List.
Cinnamaldehyde	0.1-1.0	104-55-2	LD-50 2220 mg/kg, oral, rat. On Ingredients Disclosure List.

SECTION III: PHYSICAL DATA

Appearance & Odor: Aerosol contains colorless liquid with characteris pH Range: Non-Aqueous
 Vapor Pressure: Undetermined mm Hg @20°C Sp. Gravity (Water=1): 0.9
 Vapor Density (Air=1): Undetermined Water Solubility: Soluble
 Evaporation Rate (____=1): Undetermined Percent Volatiles by Weight: 95 %

SECTION IV: FIRE OR EXPLOSION HAZARD DATA

Flammability Conditions: Contents flammable Explosion Data: No sensitivity to impact
 **** Sensitivity to static: Spray can ignite
 Extinguishing Media: Carbon dioxide or dry chemical.
 Flammability Limits: Contents flammable Hazardous Combustions Products:
 Autoignition Temperature: Undetermined Oxides of carbon and nitrogen

SECTION V: REACTIVITY DATA

Stability: Stable Materials to Avoid: Strong oxidizing agents
 Incompatability: Strong oxidizing agents & acids Material Conditions to Avoid: None known
 Hazardous Decomposition: Oxides of carbon and nitrogen Decomposition Conditions to Avoid: Open flames, temperatures > 50°C

SECTION VI: TOXICOLOGICAL PROPERTIES

Routes of Entry: Mouth, skin, respiratory system	Hazard Rating	Rating Method
Symptoms of Heavy Acute and/or Chronic Exposure: Eye, skin, and respiratory irritant. Large amounts can cause dizziness or narcosis. Can cause drying of skin.	Health-1	0=Insignificant
	Flammability-3	1=slight
	Reactivity-1	2=Moderate
		3=High
		4=Extreme

SECTION VII: PREVENTIVE MEASURES

Eye Protection: Not normally needed Practices in Handling and Storage:
 Respiratory Protection: No special requirement Original container, temperature below 45°C
 Ventilation Recommendation: Normal Precautions for Repair and Maintenance of Contaminated Equipment:
 Skin Protection: Not normally needed Wash with soap and water.
 Spill Response: Recover for use or absorb for disposal Waste Disposal Method: Dispose in accordance with local regulations
 Special Precautions: Keep out of reach of children. Use only as directed.

SECTION VIII: First Aid Measures

Emergency First Aid: Remove to fresh air. Give oxygen if needed.
 If on skin, wash with soap and water; consult a physician if a problem occurs.

SECTION IX: PREPARATION INFORMATION

Prepared by: Robert Bemis Nilodor Inc, 10966 Industrial Pkwy NW, Bolivar, OH, 44612, USA
 Date: 24 January 2005 Office Phone: 330-874-1017
 Emergency Spill 24/7 Phone: 800-255-3924 - Chem-Tel Inc

While we believe that the data contained herein are factual and the opinions expressed are those of qualified experts regarding the results of tests conducted, the data are not to be taken as warranty or representation for which we assume legal responsibility. The information is offered solely for your consideration, investigation and verification. Any use of these data and information must be determined by the user to be in accordance with federal, state and local laws.

Product Name: PENETROX™ A-13 OXIDE INHIBITING COMPOUND
Revision Date: 30 August 2018 (rev D)
Page 1 of 8

SAFETY DATA SHEET

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

PRODUCT

Product Name: PENETROX™ A-13 OXIDE INHIBITING COMPOUND

Product Description: Oxide inhibiting compound with evenly distributed zinc particles.

Intended Use: Aluminum to aluminum connections, aluminum to copper connections, and aluminum conduit threads.

COMPANY IDENTIFICATION

Supplier: BURNDY LLC
47 East Industrial Park Drive
Manchester, NH 03109USA

24 Hour Emergency (INFOTRAC) (800) 535-5053 (*US and Canada*)
(352) 323-3500 (*International*)
Burndy Informational Number (603) 647-5000

SECTION 2 HAZARDS IDENTIFICATION

CLASSIFICATION

Health	Environmental	Physical
•No Classifiable hazards	•No Classifiable hazards	•No Classifiable hazards

LABELLING

Symbols: Not Applicable	
Signal Word: Not Applicable	
Hazard Statements Not Applicable	Precautionary Statements Not Applicable

ADDITIONAL INFORMATION

Hazard not otherwise classified: Not applicable

97 % of the mixture consists of ingredient(s) of unknown acute toxicity.

WHMIS Classification(s): Not controlled

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

MIXTURES

Name	CAS #	Wt. Percentage*
Zinc Oxide	1314-13-2	1 - 5

* 95-99% material composition inclusive of inert and non-hazardous filler withheld as trade secret in accordance with paragraph 1910.1200(i)(1).

SECTION 4 FIRST AID MEASURES

DESCRIPTION OF THE FIRST AID MEASURE

Eye: In case of contact, immediately flush eyes with plenty of water. Remove contact lenses, if worn. This compound contains abrasive particles. If irritation persists, get medical attention.

Skin: In case of contact, immediately flush skin with plenty of water. Call a physician if irritation develops and persists.

Inhalation: Not a normal route of exposure. If symptoms develop, remove to fresh air. Get medical attention if condition worsens.

Ingestion: If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical advice/attention.

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Eye: May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.

Skin: May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin.

Inhalation: Not a normal route of exposure.

Ingestion: May be harmful if swallowed. May cause stomach distress, nausea or vomiting.

INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENTS NEEDED

Note to Physicians: Symptoms may not appear immediately.

Specific Treatments: In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

SECTION 5 FIRE FIGHTING MEASURES

FLAMMABILITY

Flammability: Not flammable by WHMIS/OSHA criteria.

EXTINGUISHING MEDIA

Suitable Extinguishing Media: Dry chemical, foam, carbon dioxide.

Unsuitable Extinguishing Media: Not available.

SPECIAL HAZARDS ARISING FROM THE CHEMICAL

Products of Combustion: May include, and are not limited to: oxides of carbon.

Explosion Data:

Sensitivity to Mechanical Impact: Not available.

Sensitivity to Static Discharge: Not available.

SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE FIGHTERS

Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA)

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SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING - UP

Methods for Containment: Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).

Methods for Cleaning-Up: Scoop up material and place in a disposal container.

SECTION 7 HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

Handling: Avoid contact with skin and eyes. Do not swallow. Do not breathe gas/fumes/vapor/spray. Handle and open container with care. When using do not eat or drink. (See section 8).

General Hygiene Advice: Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Storage: Keep out of the reach of children. Keep container tightly closed. (See section 10)

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

CONTROL PARAMETERS:

Exposure Guidelines

Occupational Exposure Limits				
Ingredient	OSHA-PEL	ACGIH-TLV	UK-WEL	EU-IOELV
Zinc oxide	5 mg/m ³ (fume); 15 mg/m ³ (total dust); 5 mg/m ³ (resp)	2 mg/m ³ (resp)	Not applicable	Not applicable

EXPOSURE CONTROLS

Engineering Controls: Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.

INDIVIDUAL PROTECTIVE MEASURES

Personal Protective Equipment:

Eye/Face Protection: Safety glasses or goggles are recommended when using product.

Skin Protection:

Hand Protection: None required.

Body Protection: Wear suitable protective clothing.

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Respiratory Protection: None required

General Health and Safety Measures: Handle according to established industrial hygiene and safety practices. Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking.

SECTION 9	PHYSICAL/CHEMICAL PROPERTIES
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INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Paste / Thick grease.

Color: Gray.

Odor: Not available.

Odor Threshold: Not available.

Physical State: Solid.

pH: Not available.

Melting Point/Freezing Point: Not available.

Initial Boiling Point and Boiling Range: Not available.

Flash Point: >250 °C (>500 °F)

Evaporation Rate: Not available.

Flammability: Not flammable.

Lower Flammability/Explosive Limit: Not available.

Upper Flammability/Explosive Limit: Not available.

Vapor Pressure: Not available.

Vapor Density: Not available.

Relative Density/Specific Gravity: Not available.

Solubility: Not available.

Partition coefficient: n-octanol/water: Not available.

Auto-ignition Temperature: Not available.

Decomposition Temperature: Not available.

Viscosity: Not available.

Oxidizing Properties: Not available.

Explosive Properties: Not available.

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SECTION 10	STABILITY AND REACTIVITY
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REACTIVITY

No dangerous reaction known under conditions of normal use.

CHEMICAL STABILITY

Stable under normal storage conditions.

POSSIBILITY OF HAZARDOUS REACTIONS

No dangerous reaction known under conditions of normal use.

CONDITIONS TO AVOID

Heat.

INCOMPATIBLE MATERIALS

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

May include, and are not limited to: oxides of carbon.

SECTION 11	TOXICOLOGICAL INFORMATION
-------------------	----------------------------------

INFORMATION ON TOXICOLOGICAL EFFECTS

Likely Routes of Exposure: Skin contact, eye contact, and ingestion.

Symptoms related to physical/chemical/toxicological characteristics:

Eye: May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.

Skin: May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin.

Ingestion: May be harmful if swallowed. May cause stomach distress, nausea or vomiting.

Inhalation: Not a normal route of exposure.

ACUTE TOXICITY:

Ingredient	LC50	LD50
Zinc oxide	Not available.	Oral >5000 mg/kg, rat;

Calculated overall Chemical Acute Toxicity Values		
LC50 (inhalation)	LD50 (oral)	LD50 (dermal)
Not available.	Not available.	Not available.

Ingredient	Chemical Listed as Carcinogen or Potential Carcinogen (NTP, IARC, OSHA, ACGIH, CP65)*
Zinc oxide	Not listed.

* See Section 15 for more information.

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DELAYED, IMMEDIATE, AND CHRONIC EFFECTS OF SHORT- AND LONG-TERM EXPOSURE

Skin Corrosion/Irritation: Based on available data, the classification criteria are not met.

Serious Eye Damage/Irritation: Based on available data, the classification criteria are not met.

Respiratory Sensitization: Based on available data, the classification criteria are not met.

Skin Sensitization: Based on available data, the classification criteria are not met.

STOT-Single Exposure: Based on available data, the classification criteria are not met.

Chronic Health Effects:

Carcinogenicity: Based on available data, the classification criteria are not met.

Germ Cell Mutagenicity: Based on available data, the classification criteria are not met.

Reproductive Toxicity:

Developmental: Based on available data, the classification criteria are not met.

Teratogenicity: Based on available data, the classification criteria are not met.

Embryotoxicity: Based on available data, the classification criteria are not met.

Fertility: Based on available data, the classification criteria are not met.

STOT-Repeated Exposure: Based on available data, the classification criteria are not met.

Aspiration Hazard: Based on available data, the classification criteria are not met.

Toxicologically Synergistic Materials: Not available.

Other Information: Not available.

SECTION 12	ECOLOGICAL INFORMATION
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ECOTOXICITY

Acute/Chronic Toxicity: May cause long-term adverse effects in the aquatic environment.

PERSISTENCE AND DEGRADABILITY

Not available.

BIOACCUMULATIVE POTENTIAL

Bioaccumulation: Not available.

MOBILITY IN SOIL

Not available.

OTHER ADVERSE EFFECTS

Not available.

SECTION 13	DISPOSAL CONSIDERATIONS
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WASTE TREATMENT METHODS

Disposal Method: This material must be disposed of in accordance with all local, state, provincial, and federal regulations.

Other disposal recommendations: Not available.

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SECTION 14 TRANSPORTATION

Regulatory Information	UN Number	Proper Shipping Name	Hazard Class	Packing Group	Label(s)	RQ	Additional Information
US DOT	Not regulated by DoT						
TDG	Not regulated by TDG						
ADR	Not regulated by ADR						
IATA	Not regulated by IATA						
IMDG	Not regulated by IMDG						

SECTION 15 REGULATORY INFORMATION

SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/ LEGISLATIONS SPECIFIC FOR THE CHEMICAL

Canada: This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

US: SDS prepared pursuant to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

SARA Title III				
Ingredient	Section 302 (EHS) TPQ (lbs.)	Section 304 EHS RQ (lbs.)	CERCLA RQ (lbs.)	Section 313
Zinc oxide	Not listed.	Not listed.	Not listed.	Not listed.

State Regulations

California Proposition 65:

This product does not contain chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

Global Inventories:

Ingredient	Canada DSL/NDL	USA TSCA
Zinc oxide	DSL	Yes.

NFPA National Fire Protection Association:	
Health:	1
Fire:	1
Reactivity:	0

HMIS-Hazardous Materials Identification System	
Health:	1
Fire:	1
Physical Hazard:	0

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Hazard Rating: 0 = minimal, 1 = slight, 2 = moderate, 3 = severe, 4 = extreme

SOURCE AGENCY CARCINOGEN CLASSIFICATIONS:

CP65 California Proposition 65

OSHA (O) Occupational Safety and Health Administration.

ACGIH (G) American Conference of Governmental Industrial Hygienists.

- A1 - Confirmed human carcinogen.
- A2 - Suspected human carcinogen.
- A3 - Animal carcinogen.
- A4 - Not classifiable as a human carcinogen.
- A5 - Not suspected as a human carcinogen.

IARC (I) International Agency for Research on Cancer.

- 1 - The agent (mixture) is carcinogenic to humans.
- 2A - The agent (mixture) is probably carcinogenic to humans; there is limited evidence of carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals.
- 2B - The agent (mixture) is possibly carcinogenic to humans; there is limited evidence of carcinogenicity in humans in the absence of sufficient evidence of carcinogenicity in experimental animals.
- 3 - The agent (mixture, exposure circumstance) is not classifiable as to its carcinogenicity to humans.
- 4 - The agent (mixture, exposure circumstance) is probably not carcinogenic to humans.

NTP (N) National Toxicology Program.

- 1 - Known to be carcinogens.
- 2 - Reasonably anticipated to be carcinogens.

SECTION 16	OTHER INFORMATION
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THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS:

Revision Date	Description	Sections Affected
6/2/11	MSDS Version written	1-11
7/21/11	Updated to GHS criteria, additional sections added.	1-16
8/1/11	Updated	15
11/08/12	Updated	1, 3, 8, 9, 11, 12, 15
4/2/13	Updated	11
7/5/13	Version number update	-
7/25/14	Updates	3,15
9/16/15	Updates	1-16
10/28/15	Updates	1-16
11/21/16	Updates	8
10/20/2017	Updates	1-16
8/30/2018	Updates	15

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HAZARDOUS MATERIALS SYSTEM
MATERIAL SAFETY DATA SHEET 2201

RCHP4401
PAGE: 1

REVISION DATE: 04/13/99 REVISION: 0

NAME OF MATERIAL: MARLITE C-375 CONSTRUCTION ADHESIVE
MANUFACTURER : M232 MARLITE
MFR REVISION : MFR REVISION DATE: 06/10/92

MATERIAL SAFETY DATA SHEET

MARLITE
P.O. BOX 250
DOVER, OH 44622

EMERGENCY PHONE NUMBER: (216) 343-6621

H.M.I.S.

HEALTH: 2
FLAMMABILITY: 3
REACTIVITY: 0

These ratings should be used only as part of fully implemented
H.M.I.S. program.

SECTION I

TRADE NAME: MARLITE C-375 CONSTRUCTION ADHESIVE
DATE OF PREPARATION: 6/10/92
MANUFACTURER CODE I.D. 1831 369

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENT	% BY WGT	CAS NO.	ALLOWABLE EXPOSURE LEVEL	SARA 313	VP Hg @ 20 DEG,C
Silicia Crystalline- Quartz		14808-60-7	TLV-TWA 0.1000 OSHA-PEL 0.1000	MPPCF SKIN	
Hexine		110-54-3	TLV-TWA 50 180 OSHA-PEL 50 180		120
Cyclohexane	5	110-82-7	TLV-TWA 300 1050 OSHA-PEL 300 1050		x
N-Heptane		142-82-5	TLV-TWA 400 1600 TLV-STEL 500 2000 OSHA-PEL 400 1600 OSHA-STEL 500 2000		

LFL = LOWER FLAMMABILITY LIMIT PERCENT
UFL = UPPER FLAMMABILITY LIMIT PERCENT
SKIN = SKIN ABSORPTION MUST BE CONSIDERED AS A ROUTE OF EXPOSURE

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HAZARDOUS MATERIALS SYSTEM
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C-C EILING - ALLOW. EXPOSURE LEVEL SHOULD NOT BE EXCEEDED FOR ANY TIME PERIOD
MFR - MANUFACTURER RECOMMENDED EXPOSURE LIMIT
STEL - SHORT TERM EXPOSURE LIMIT
X-SARA 313 - CHEMICAL IS SUBJECT TO REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF S.A.R.A. 40 CFR PART 372

SECTION III - HEALTH INFORMATION

EFFECTS OF SHORT TERM EXPOSURE

SWALLOWING

Can cause gastrointestinal irritation, nausea, and vomiting.
Aspiration of material into lung may cause chemical pneumonitis which can be fatal.

INHALATION

May cause nose or throat irritation. High concentrations may cause acute central nervous system depression characterized by headaches, dizziness, nausea and confusion.

EYE

May cause eye irritation.

SKIN

Primary skin irritant. May cause defatting and irritation of the skin.

EFFECTS OF REPEATED OVEREXPOSURE

Repeated and prolonged occupational overexposure to crystalline silica may cause silicosis, a progressively disabling lung disease.

Repeated exposure to n-hexane may cause damage to the peripheral nervous system.

Pre-existing respiratory conditions may be aggravated by exposure to crystalline silica.

Exposure to methyl Ethyl Ketone may enhance the neurotoxicity of n-hexane and methyl-n-Butyl Ketone. This synergistic effect has resulted in peripheral neuropathy in humans.

Reports have associated prolonged and repeated occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

SIGNIFICANT LABORATORY DATA WITH POSSIBLE RELEVANCE TO HUMAN HEALTH

The International Agency for Research on Cancer considers crystalline silica to have limited evidence of carcinogenicity in humans and sufficient evidence in experimental animals (IARC Group 2A)

SECTION IV - FIRST AID AND EMERGENCY PROCEDURES

SWALLOWING

If swallowed do not induce vomiting. Call poison control center, hospital emergency room or physician immediately.

INHALATION

Remove to fresh air immediately. If breathing has stopped, give artificial respiration. Keep warm and quiet. Get medical attention, immediately.

EYE

Flush with large amounts of water, lifting upper and lower lids

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occasionally. Continue for at least 15 minutes. Get medical attention.
SKIN

Immediately flush the contaminated area with large amounts of water.
Remove contaminated clothing as water is applied. Consult a physician.

NOTES TO PHYSICIAN

Any treatment that might be required for overexposure should be directed at the control of symptoms and the clinical conditions.

SECTION V - PHYSICAL DATA

BOILING RANGE 146 Deg. F (64 DEG. C.) TO 254 Deg. F. (98 DEG.C.)
VAPOR DENSITY Heavier than air
% VOLATILE BY VOLUME 50
EVAPORATION RATE Slower than diethyl ether
VOC 2.88 lb/gal less wate & NPRS*
346 g/l less water CALCULATED
WEIGHT LB./GAL. 9.2
VOC 5.79 lb/gal solids
695 g/l solids CALCULATED

All physical data determined at 68 DEG. F. (20 DEG.C.) 760 mm Hg
* Negligibly Photochemically Reactive Materials

SECTION VI - FIRE AND EXPLOSION DATA

NFPA FLAMMABILITY CLASSIFICATION FLAMMABLE LIQUID - 1B

FLASHPOINT -9 DEG. F. (-23 DEG.C.) CALCULATED

EXTINGUISHING MEDIA

Use NFPA Class B Fire extinguishers (carbon dioxide, all purpose dry chemical or alcohol foam) designed to extinguish flammable liquid fires. Polymer foam is preferred for large fires.

UNUSUAL FIRE AND EXPLOSION HAZARDS

During emergency conditions, overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

DANGER! EXTREMELY FLAMMABLE. VAPORS MAY CAUSE FLASH FIRE.

SPECIAL FIRE FIGHTING PROCEDURES

Firefighters should wear self-contained breathing apparatus. Water may be ineffective, but may be used to cool exposed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat. If water is used, fog nozzles are preferable.

SECTION VII - REACTIVITY DATA

STABILITY

Normally stable

CONDITIONS TO AVOID

Avoid excessive heat (>115F (46 C) and sources of ignition

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INCOMPATIBILITY (MATERIALS TO AVOID)

Oxidizing materials.

HAZARDOUS DECOMPOSITION PRODUCTS

Burning, including when heated by welding or cutting, will produce smoke, carbon monoxide and carbon dioxide.

HAZARDOUS POLYMERIZATION

Will not occur.

CONDITIONS TO AVOID

Keep away from heat, sparks, and flame.

SECTION VIII - ENVIRONMENTAL INFORMATION

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED

Wear respirators, eye, hand, and body protection appropriate for the size of the spill and the exposures encountered.
Keep spectators away. Eliminate all ignition sources (flames, hot surfaces, and sources of electrical, static or frictional sparks).
Dike and contain spill with inert material (e.g. sand, earth).
Transfer liquids to covered metal containers for recovery or disposal, or remove with inert absorbant. Use only non-sparking tools. Place absorbant diking materials in covered metal containers for disposal.
Prevent contamination of sewers, streams, and ground water with spilled material or used absorbant.

WATER DISPOSAL

Incinerate only in EPA permitted facility. Do not incinerate closed containers. Observe precautions for disposal of flammable materials. Contaminated absorbant may be disposed in a hazardous waste landfill. Dispose only in accordance with federal, state and local regulations.

RCRA CLASSIFICATION

This Product, if discarded directly, would be classified a hazardous waste based on its ignitability characteristic, i.e. has a flashpoint of 140 deg. F. (60 deg. C.) or less. The proper RCRA classification would be D001.

ENVIRONMENTAL HAZARDS

None know

SECTION IX - PERSONAL PROTECTION INFORMATION

RESPIRATORY PROTECTION

Proper selection of respiratory protection depends upon many factors including duration and level of exposure and conditions of use. In general exposure to organic chemicals such as those contained in this product may not require the use of respiratory protection if used in well ventilated areas. In areas of restricted ventilation a NIOSH approved organic vapor respirator may be required. Under certain conditions, such as spraying, a mechanical prefilter may also be required. In confined areas or in high exposure situations a NIOSH/MSHA approved air supplied respirator may be required. If the TLV's or PEL's listed in Section II are exceeded use a properly fitted

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NIOSH/MSHA approved respirator with an appropriate protection factor. Refer to OSHA 29 CFR 1910.134 "Respiratory Protection", and "Respiratory Protection a Manual and Guideline, American Industrial Hygiene Association".

VENTILATION

Provide local exhaust ventilation in sufficient volume and pattern so as to maintain exposures below nuisance dust limits and permissible exposure limits which may be listed in Section II. Refer to Industrial Ventilation - A Manual for Recommended Practice - American Conference of Governmental Industrial Hygienists.

HAND PROTECTION

Solvent impermeable gloves are required for repeated or prolonged contact.

EYE PROTECTION

Wear safety glasses meeting the specifications of ANSI Z87.1 where no contact with the eye is anticipated. Chemical safety goggles meeting the specifications of ANSI Z87.1 should be worn whenever there is a possibility of splashing or other contact with the eyes.

OTHER PROTECTIVE EQUIPMENT

Eyewash facility, safety shower.

SECTION X - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Do not store above 1115 deg. F. (46 deg. C.) Store large quantities in compliance with OSHA 29CFR1910.106.

OTHER PRECAUTIONS

Do not take internally. Close container after each use. Do not breathe sanding dust.
Containers should be grounded and bonded to the receiving container.
Do not weld, braze or cut on empty container.

SECTION XI - OTHER INFORMATION

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED TO BE ACCURATE.. WHILE THE INFORMATION IS BELIEVED TO BE RELIABLE, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THIS DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF. SINCE THE USE OF THIS INFORMATION AND THE CONDITIONS AND USE OF THIS PRODUCT ARE CONTROLLED BY THE USER, IT IS THE USER'S OBLIGATION TO DETERMINE THE CONDITIONS OF SAFE USE OF THE PRODUCT.

The Corporate Safety and Environmental Affairs Department is responsible for the preparation of this Material Safety Data Shee.

RANDY BREYER
MARLITE
HARGER ST. BOX 250

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14:31:29

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DOVER, OH 44622

INPUT/VERIFIED BY LLV 4/14/99

** END OF MATERIAL SAFETY DATA SHEET **

SAFETY DATA SHEET

Issuing Date 05-June-2015

Revision Date 12-Dec-2018

Revision Number 1



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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

PHYSICIANS CARE EYEWASH

Other means of identification

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Medicinal products

Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier Name NIAGARA PHARMACEUTICALS INC.

Supplier Address 60 INNOVATION DRIVE
FLAMBOROUGH
ON
L9H7P3
CA

Supplier Phone Number Phone:905-690-6277
Fax:905-690-6281

Supplier Email rjames@niagarapharmaceuticals.com

Emergency telephone number

Company Emergency Phone Number 905-708-7962

2. HAZARDS IDENTIFICATION

Classification

The Eyewash is an approved drug by the FDA used for cleansing the eye to help irritation or burning by removing loose foreign material. This drug product is considered exempt from SDS as it does not fall under the definition of "Hazardous product" as per regulations - 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).



PHYSICIANS CARE EYEWASH

GHS Label elements, including precautionary statements**Precautionary Statements - Prevention**

For single use only

Precautionary Statements - Response

If concerned: Get medical advice/attention

Precautionary Statements - Storage

Store as per product label between 20°C to 25°C(68°F to 77°F)

Precautionary Statements - Disposal

Dispose of contents/container in accordance with local regulations

Hazards not otherwise classified (HNOC)

Not applicable

Unknown Toxicity

0% of the mixture consists of ingredient(s) of unknown toxicity

Other information

No information available

Interactions with Other Chemicals

No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%	Trade Secret
Boric acid (H3BO3)	10043-35-3	1 - 5	*
Sodium borate	1330-43-4	0.1 - 1	*

*The exact percentage (concentration) of composition has been withheld as a trade secret

4. FIRST AID MEASURESFirst aid measures**Eye contact**

This product is a first aid measure for cleansing the eye to help relieve irritation or burning by removing loose foreign material.

Skin contact

None



PHYSICIANS CARE EYEWASH

Inhalation	None
Ingestion	Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

Most Important Symptoms and Effects No information available.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES**Suitable Extinguishing Media**

None.

Unsuitable extinguishing media

No information available

Specific hazards arising from the chemical

None

Hazardous Combustion Products

None

Explosion Data**Sensitivity to Mechanical Impact** No.**Sensitivity to Static Discharge** No.**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

PHYSICIANS CARE EYEWASH

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions None

Environmental precautions

Environmental precautions Refer to protective measures listed in Sections 7 and 8.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Soak up with inert absorbent material.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Store as sealed bottle. Do not use if seal is missing or broken. For single use only. Store as per product label between 20°C to 25°C(68°F to 77°F)

Incompatible Products None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Boric acid (H3BO3) 10043-35-3	TWA: 2 mg/m ³ inhalable fraction STEL: 6 mg/m ³ inhalable fraction	-	
Sodium borate 1330-43-4	STEL: 6 mg/m ³ inhalable fraction TWA: 2 mg/m ³ inhalable fraction	(vacated) TWA: 10 mg/m ³	TWA: 1 mg/m ³

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits Immediately Dangerous to Life or Health

Other Exposure Guidelines Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d



PHYSICIANS CARE EYEWASH

962 (11th Cir., 1992)

Appropriate engineering controls

Engineering Measures Showers
 Eyewash stations
 Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/face protection No special protective equipment required.
 Skin and body protection No special protective equipment required
 Respiratory protection No protective equipment is needed under normal use conditions.
 Hygiene Measures Handle in accordance with good industrial hygiene and safety practice. .

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Physical state	Liquid		
Appearance	Clear, colorless. No visual impurities	Odor	Odorless
Color	No information available	Odor Threshold	No information available
<u>Property</u>	<u>Values</u>	<u>Remarks</u>	<u>Method</u>
pH	7.4	None known	
Melting / freezing point	No data available	None known	
Boiling point / boiling range	No data available	None known	
Flash Point	No data available	None known	
Evaporation Rate	No data available	None known	
Flammability (solid, gas)	No data available	None known	
Flammability Limit in Air			
Upper flammability limit	No data available		
Lower flammability limit	No data available		
Vapor pressure	No data available	None known	
Vapor density	No data available	None known	
Specific Gravity	1	None known	
Water Solubility	Completely soluble	None known	
Solubility in other solvents	No data available	None known	
Partition coefficient: n-octanol/water	No data available	None known	
Autoignition temperature	No data available	None known	
Decomposition temperature	No data available	None known	



PHYSICIANS CARE EYEWASH

Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Explosive properties	No data available	
Oxidizing properties	No data available	

Other Information

Softening Point	No data available
VOC Content (%)	No data available
Particle Size	No data available
Particle Size Distribution	

10. STABILITY AND REACTIVITY

Reactivity

No data available.

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization

Hazardous polymerization does not occur.

Conditions to avoid

None known based on information supplied.

Incompatible materials

None known based on information supplied.

Hazardous Decomposition Products

None known

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposureProduct Information

Inhalation	Specific test data for the substance or mixture is not available.
Eye contact	Specific test data for the substance or mixture is not available.
Skin contact	Specific test data for the substance or mixture is not available.
Ingestion	Specific test data for the substance or mixture is not available.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Boric acid (H3BO3) 10043-35-3	= 2660 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 2.03 mg/L (Rat) 4 h



PHYSICIANS CARE EYEWASH

Sodium borate 1330-43-4	= 2403 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	-
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Information on toxicological effects

Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization No information available.

Mutagenic Effects No information available.

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Reproductive toxicity No information available

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Chronic Toxicity No known effect based on information supplied.

Target Organ Effects No information available

Aspiration Hazard No information available.

Numerical measures of toxicity Product Information

The following values are calculated based on chapter 3.1 of the GHS document
Not applicable

PHYSICIANS CARE EYEWASH

12. ECOLOGICAL INFORMATION

Ecotoxicity

The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Boric acid (H3BO3) 10043-35-3		72h LC50: = 1020 mg/L (Carassius auratus)		48h EC50: 115 - 153 mg/L
Sodium borate 1330-43-4	96h EC50: = 158 mg/L (Desmodesmus subspicatus) 96h EC50: 2.6 - 21.8 mg/L (Pseudokirchneriella subcapitata)	96h LC50: = 340 mg/L (Limanda limanda)		48h LC50: 1085 - 1402 mg/L

Persistence and Degradability

No information available.

Bioaccumulation

Chemical Name	Log Pow
Boric acid (H3BO3) 10043-35-3	-0.757

Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal methods

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

Contaminated Packaging

Dispose of contents/containers in accordance with local regulations.

California Hazardous Waste Codes 561

This product contains one substance that is listed with the State of California as a hazardous waste. However the amounts used in this product is negligible and is of below the prescribed limits for toxicity.

Chemical Name	California Hazardous Waste
Boric acid (H3BO3) 10043-35-3	Toxic



PHYSICIANS CARE EYEWASH

14. TRANSPORT INFORMATION

<u>DOT</u> Proper Shipping Name	NOT REGULATED
Hazard Class	NON REGULATED N/A
<u>TDG</u>	Not regulated
<u>MEX</u>	Not regulated
<u>ICAO</u>	Not regulated
<u>IATA</u> Proper Shipping Name	Not regulated
Hazard Class	NON REGULATED N/A
<u>IMDG/IMO</u> Hazard Class	Not regulated N/A
<u>RID</u>	Not regulated
<u>ADR</u>	Not regulated
<u>ADN</u>	Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA	Complies
DSL	All components are listed either on the DSL or NDSL.

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
 DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute Health Hazard	No
Chronic Health Hazard	No



PHYSICIANS CARE EYEWASH

Fire Hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

US State Regulations**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Sodium borate 1330-43-4		X	X		

International Regulations

Component	Carcinogen Status	Exposure Limits
Sodium borate 1330-43-4 (0.1 - 1)		Mexico: TWA 1 mg/m ³

Canada**WHMIS Hazard Class**

Not applicable

16. OTHER INFORMATION

NFPA	Health Hazards 0	Flammability 0	Instability 0	Physical and Chemical Hazards - Personal Protection X
HMIS	Health Hazards 0	Flammability 0	Physical Hazard 0	

Prepared By
Niagara Pharmaceuticals Inc.
60 Innovation Drive
Flamborough, ON, L9H7P3



PHYSICIANS CARE EYEWASH

Revision Date
Revision Note905-690-6277
12-Dec-2018
No information available**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of Safety Data Sheet



SAFETY DATA SHEET

SDS Number:	25, REV M PITNEY BOWES INC.	Effective Date:	September 6, 1990
		Revised Date:	October 24, 2017
Product Name:	EZ Seal Solution	Page:	1 of 7

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

1.1 Product Identifier

Trade Name: EZ Seal Solution

Reorder Number: 600-0, 601-0, 601-2, 601-5, 601-7, 601-9, 602-0, 602-7, 603-1, 603-2, 604-0, 604-1, 604-2, 605-0, 606-0, 607-0, 607-5, 608-0, 608-5, SV92276, SV92278

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Product Use: Sealing Solution for Mail Machines

1.3 Details of the Supplier of the Safety Data Sheet

Manufacturer:

US Facility: Pitney Bowes Inc. 27 Waterview Drive Shelton, CT 006484 United States	UK Facility: Building 5 Trident Place Hatfield Business Park Mosquito Way Hatfield Hertfordshire, AL10 9UJ United Kingdom	Canada Distributer: Pitney Bowes Ltd. 5500 Explorer Drive Mississauga, Ontario L4W 5C7 Canada
---	--	---

Information Phone Number:
800-243-7824 +44(0) 8705 252 525 905-619-7861

E-mail: ehs@pb.com

SDS Website: www.pitneybowes.msds.com

1.4 Emergency Telephone Number

Emergency Spill Information 800-424-9300 00-1-703-527-3887
North America *International (collect call)*

SDS Date of Preparation: October 24, 2017

SECTION 2: HAZARDS IDENTIFICATION
--

2.1 Classification of the Substance or Mixture

CLP/GHS Classification (1272/2008): Not classified as hazardous.

2.2 Label Elements: None required.

2.3 Other Hazards: None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS
--

3.1 Substances:

SAFETY DATA SHEET

SDS Number:	25, REV M PITNEY BOWES INC.	Effective Date: Revised Date:	September 6, 1990 October 24, 2017
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Chemical Name	CAS#	EINECS#	GHS Classification Regulation (EC) No 1272/2008	%
Non-Hazardous Ingredients	Mixture	Mixture	Not Applicable	100

See Section 16 for further information on GHS Classification.

SECTION 4: FIRST AID MEASURES

4.1 Description of First Aid Measures

Eyes: Flush with plenty of running cold water for several minutes, holding eyelids open to assure thorough rinsing. Get medical attention if irritation develops or persists.

Skin: Wash with soap and water. Remove contaminated clothing and launder before reuse. Get medical attention if irritation develops or persists.

Inhalation: Not an expected route of entry. If symptoms occur, remove person to fresh air. If irritation or pulmonary symptoms develop, consult a physician.

Ingestion: If swallowed, do not induce vomiting unless directed to do so by a medical professional. Never give fluids or induce vomiting if the victim is unconscious or having convulsions. Get medical attention if symptoms occur.

Notes to Physicians: Treat symptomatically.

4.2 Most Important symptoms and effects, both acute and delayed:

Direct eye contact may cause mild discomfort.

4.3 Indication of any immediate medical attention and special treatment needed:

Immediate medical treatment should not be required.

SECTION 5: FIRE FIGHTING MEASURES

5.1 Extinguishing Media:

Use any media that is appropriate to the surrounding fire.

5.2 Special Hazards Arising from the Substance or Mixture

Unusual Fire and Explosion Hazards: None known.

Hazardous Decomposition Products: None known.

5.3 Advice for Fire-Fighters:

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

Avoid contact with eyes.

6.2 Environmental Precautions:

No special precautions are needed.

SAFETY DATA SHEET

SDS Number:	25, REV M PITNEY BOWES INC.	Effective Date: Revised Date:	September 6, 1990 October 24, 2017
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6.3 Methods and Material for Containment and Cleaning Up:

Large Spill: Collect with absorbent material and place into a suitable container for disposal.
Small Spill: Wipe up and place into a container for disposal.

6.4 Reference to Other Sections:

Refer to Section 8 for protective equipment and Section 13 for disposal considerations.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for Safe Handling:

Avoid contact with eyes. Wash hands after use.

7.2 Conditions for Safe Storage, Including any Incompatibilities:

Keep out of the reach of children.

7.3 Specific end use(s):

Sealing Solution for Mail Machines

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters:

Chemical Name	Exposure Limits
Non-Hazardous Ingredients	None Established

8.2 Exposure Controls:

Engineering Controls: None required.

Respiratory Protection: Not required.

Skin Protection: None normally required.

Eye Protection: None normally required. Avoid contact with eyes.

Other: Not required for normal use conditions.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic Physical and Chemical Properties:

Appearance: Transparent blue liquid.	Vapor Density: 1.0
Odor: No odor	Specific Gravity: 1.002
Odor Threshold: Not applicable	Water Solubility: Soluble
pH: Not determined	Octanol/Water Partition Coefficient: Not determined
Melting Point/Freezing Point: Not determined	Autoignition Temperature: Not applicable
Boiling Point: >93.33°C (>200°F)	Decomposition Temperature: Not determined
Flash Point: Not applicable	Viscosity: Not determined
Evaporation Rate: Not determined	Explosion Properties: Not determined
Flammable Limits: LEL: Not applicable UEL: Not applicable	Oxidizing Properties: Not determined

SAFETY DATA SHEET

SDS Number:	25, REV M PITNEY BOWES INC.	Effective Date: Revised Date:	September 6, 1990 October 24, 2017
Product Name:	EZ Seal Solution	Page:	4 of 7

Vapor Pressure: Not determined	VOC: Not determined
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9.2 Other Information:

None

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

Not reactive under normal conditions of use.

10.2 Chemical Stability:

Stable.

10.3 Possibility of Hazardous Reactions:

None known

10.4 Conditions to Avoid:

None known

10.5 Incompatible Materials:

None known

10.6 Hazardous Decomposition Products:

None known

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects:

Eyes: May cause mild discomfort.

Skin: None adverse effects expected.

Ingestion: No adverse effects expected. This product is not acutely toxic by ingestion.

Inhalation: No adverse effects expected. This product is not acutely toxic by inhalation.

Acute Toxicity Values:

Product	LD50: >5000 mg/kg	Rat	Oral
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Skin corrosion/ irritation: Not a skin corrosive or irritant.

Eye damage/irritation: Non-irritating

Respiratory Irritation: Non-irritating

Respiratory Sensitization: Not a respiratory sensitizer.

Skin Sensitization: Not a skin sensitizer.

Aspiration Hazard: Product is not an aspiration Hazard.

Specific Target Organ Toxicity:

Single Exposure: No data available.

SAFETY DATA SHEET

SDS Number:	25, REV M PITNEY BOWES INC.	Effective Date: Revised Date:	September 6, 1990 October 24, 2017
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Repeat Exposure: No data available.

Carcinogen Status: None of the components of this product are classified as carcinogens by IARC, OSHA, NTP, ACGIH, or the CLP.

Germ Cell Mutagenicity: No data available for product.

Toxicity for Reproduction: No data available for product.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity:

No data available for product.

12.2 Persistence and Degradability:

No data available for product.

12.3 Bioaccumulative Potential:

No data available for product.

12.4 Mobility in Soil:

No data available for product.

12.5 Results of PBT and vPvB Assessment:

Not required. Components do not meet the criteria of PBT or vPvB.

12.6 Other Adverse Effects:

None.

SECTION 13: DISPOSAL INFORMATION

13.1 Waste Treatment Methods

Dispose in accordance with local, state or provincial and federal or national regulations.

SECTION 14: TRANSPORT INFORMATION

	14.1 UN Number	14.2 UN Proper Shipping Name	14.3 Transport Hazard Class(s)	14.4 Packing Group	14.5 Environmental Hazards
US DOT	None	Not regulated for transport	None	None	No
EU ADR/RID	None	Not regulated for transport	None	None	No
IATA:	None	Not regulated for transport	None	None	No
IMDG	None	Not regulated for transport	None	None	No

14.6 Special Precautions for User:

None

SAFETY DATA SHEET

SDS Number:	25, REV M PITNEY BOWES INC.	Effective Date: Revised Date:	September 6, 1990 October 24, 2017
Product Name:	EZ Seal Solution	Page:	6 of 7

- 14.7 **Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code:**
Not applicable

SECTION 15: REGULATORY INFORMATION

- 15.1 **Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture:**

International Inventories:

US EPA TSCA Inventory: All the components of this product are listed in the EPA TSCA Inventory.

Canadian Environmental Protection Act: All of the components are listed in the Canadian DSL.

Australian Regulations: All of the components are listed in the AICS inventory.

Japanese Regulations: All of the components are listed on the METI inventory.

U.S. REGULATIONS

CERCLA: Spills of this product are not required to be reported to the National Response Center. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

EPA SARA 302: This product does not contain chemicals regulated under SARA Section 302.

EPA SARA 311 Hazard Classification: None

EPA SARA 313: This product contains the following chemicals that are regulated under SARA Title III, section 313: As per OSHA GHS classification in Section 2 of this SDS.

California Proposition 65: This product contains the following chemicals which are known to the State of California to cause cancer, reproductive toxicity or birth defects: None.

INTERNATIONAL REGULATIONS

German WGK: Not determined.

Other EU Regulations: This product is classified and labeled in accordance with EC CLP. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006 (REACH). Classification is based on either test data or the calculation method.

- 15.2 **Chemical Safety Assessment:**
Not required

SECTION 16: OTHER INFORMATION

NFPA Codes: **Health: 0** **Fire: 0** **Instability: 0**
HIMS Codes: **Health: 0** **Fire: 0** **Physical Hazard: 0**

GHS Phrases for Reference (See Section 2 and 3):
None

SAFETY DATA SHEET

SDS Number:	25, REV M PITNEY BOWES INC.	Effective Date:	September 6, 1990
		Revised Date:	October 24, 2017
Product Name:	EZ Seal Solution	Page:	7 of 7

Date of current

revision: October 24, 2017

Revision Summary: Format change. Change to all sections.

Date of previous revision: August 25, 2014

Gensuite Approval Date: October 24, 2017

SDS Prepared By: Chemical Review Team (CRT)

Material Safety Data Sheet

according to ANSI Z400.1- 2004 and 29 CFR 1910.1200



PLEDGE® MULTI SURFACE CLEANER DISINFECTANT

Version 1.0

Print Date 02/02/2015

Revision Date 01/10/2014

MSDS Number 350000021920

1. PRODUCT AND COMPANY IDENTIFICATION

Product information

Trade name : PLEDGE® MULTI SURFACE CLEANER DISINFECTANT

Use of the Substance/Mixture : Disinfectant

Company : S.C. Johnson and Son, Limited
1 Webster Street
Brantford ON N3T 5R1

Emergency telephone number : 24 Hour Transport & Medical Emergency Phone (866) 231-5406
24 Hour International Emergency Phone (952) 852-4647
24 Hour Canadian Transport Emergency Phone (CANUTEC) (613) 996-6666

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance / Odor : clear / aerosol / pleasant

Immediate Concerns

: Caution
Avoid contact with skin, eyes and clothing.
Keep away from heat, sparks and flame.
Contents under pressure.
Do not puncture or incinerate.
Do not store at temperatures above 120 Deg. F (50 Deg C), as container may burst.

Potential Health Effects

Exposure routes : Eye, Skin, Inhalation, Ingestion.

Eyes : May cause:
Mild eye irritation

Skin : Prolonged or repeated contact may dry skin and cause irritation.

Inhalation : No adverse effects expected when used as directed.

Ingestion : May cause irritation to mouth, throat and stomach.
May cause abdominal discomfort.

Aggravated Medical Condition : Persons with pre-existing skin disorders may be more susceptible to irritating effects.

Material Safety Data Sheet

according to ANSI Z400.1- 2004 and 29 CFR 1910.1200



PLEDGE® MULTI SURFACE CLEANER DISINFECTANT

Version 1.0

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Revision Date 01/10/2014

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous chemicals present at or above reportable levels as defined by OSHA 29 CFR 1910.1200 or the Canadian Controlled Products Regulations are listed in this table:

Chemical Name	CAS-No.	Weight percent
Isopropanol	67-63-0	1.00 - 5.00
Alkyl ethylbenzalkonium	85409-23-0	0.0001 - 0.10
n-Alkyl Dimethyl Benzyl Ammonium Chloride	53516-76-0	0.0001 - 0.10

For additional information on product ingredients, see www.whatsinsidescjohnson.com.

4. FIRST AID MEASURES

- Eye contact : Rinse with plenty of water. Get medical attention if irritation develops and persists.
- Skin contact : Rinse with plenty of water. Get medical attention if irritation develops and persists.
- Inhalation : Remove to fresh air. If breathing is affected, get medical attention.
- Ingestion : Rinse mouth with water.

5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Specific hazards during firefighting : Aerosol Product - Containers may rocket or explode in heat of fire.
- Further information : Fight fire from maximum distance or protected area. Cool and use caution when approaching or handling fire-exposed containers. Wear full protective clothing and positive pressure self-contained breathing apparatus. In case of fire and/or explosion do not breathe fumes.
- Flash point : Note: does not flash
- Lower explosion limit : Note: no data available
- Upper explosion limit : Note: no data available

Material Safety Data Sheet

according to ANSI Z400.1- 2004 and 29 CFR 1910.1200



PLEDGE® MULTI SURFACE CLEANER DISINFECTANT

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MSDS Number 350000021920

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Remove all sources of ignition.
Wear personal protective equipment.
- Environmental precautions : Outside of normal use, avoid release to the environment.
- Methods for cleaning up : If damage occurs to aerosol can:
Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).
Use only non-sparking equipment.
Clean residue from spill site.

7. HANDLING AND STORAGE

Handling

- Advice on safe handling : Do not puncture or incinerate.
Avoid breathing vapours, mist or gas.
Do not spray toward face.
Do not use in areas without adequate ventilation.
Use only as directed.
KEEP OUT OF REACH OF CHILDREN AND PETS.

- Advice on protection against fire and explosion : Keep away from heat and sources of ignition.

Storage

- Requirements for storage areas and containers : Do not store at temperatures above 120 Deg. F (50 Deg C), as container may burst.
Keep in a dry, cool and well-ventilated place.

Material Safety Data Sheet

according to ANSI Z400.1- 2004 and 29 CFR 1910.1200



PLEDGE® MULTI SURFACE CLEANER DISINFECTANT

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MSDS Number 350000021920

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

Components	CAS-No.	mg/m3	ppm	Non-standard units	Basis
Isopropanol	67-63-0	-	400 ppm	-	ACGIH STEL
Isopropanol	67-63-0	-	200 ppm	-	ACGIH TWA

Personal protective equipment

- Respiratory protection** : No personal respiratory protective equipment normally required.
- Hand protection** : No special requirements.
- Eye protection** : No special requirements.
- Skin and body protection** : No special requirements.
- Hygiene measures** : Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Form : aerosol
- Color : clear
- Odor : pleasant
- pH : 8.0 - 9.0 (undiluted)
- Melting point : no data available
- Boiling point : no data available
- Freezing point : no data available
- Flash point : does not flash
- Evaporation rate : no data available

Material Safety Data Sheet

according to ANSI Z400.1- 2004 and 29 CFR 1910.1200



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Flammability (solid, gas)	:	no data available
Auto-ignition temperature	:	no data available
Lower explosion limit	:	no data available
Upper explosion limit	:	no data available
Vapour pressure	:	no data available
Density	:	0.99 g/cm ³ at 20 °C
Water solubility	:	completely soluble
Partition coefficient: n- octanol/water	:	no data available
Viscosity, dynamic	:	no data available
Viscosity, kinematic	:	no data available
Relative vapour density	:	no data available
Volatile Organic Compounds Total VOC (wt. %)*	:	1.7 % - additional exemptions may apply *as defined by US Federal and State Consumer Product Regulations

10. STABILITY AND REACTIVITY

Conditions to avoid	:	Heat, flames and sparks.
Materials to avoid	:	Do not mix with bleach or any other household cleaners. Strong bases
Hazardous decomposition products	:	Thermal decomposition can lead to release of irritating gases and vapours.
Thermal decomposition	:	Note: no data available
Hazardous reactions	:	If accidental mixing occurs and toxic gas is formed, exit area immediately. Do not return until well ventilated.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	:	LD50 Measured
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Material Safety Data Sheet

according to ANSI Z400.1- 2004 and 29 CFR 1910.1200



PLEDGE® MULTI SURFACE CLEANER DISINFECTANT

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Revision Date 01/10/2014

MSDS Number 350000021920

> 5,000 mg/kg

Acute inhalation toxicity : LC50
Measured
> 5.11 mg/l

Acute dermal toxicity : LD50
Measured
> 5,000 mg/kg

Chronic effects

Carcinogenicity : None Anticipated

Mutagenicity : None Anticipated

Reproductive effects : None Anticipated

Teratogenicity : None Anticipated

Sensitisation : Not known to be a sensitizer.

12. ECOLOGICAL INFORMATION

Ecotoxicity effects : no data available

13. DISPOSAL CONSIDERATIONS

Observe all applicable Federal, Provincial and State regulations and Local/Municipal ordinances regarding disposal.
Consumer may discard empty container in trash, or recycle where facilities exist.

14. TRANSPORT INFORMATION

Land transport

▪ **U.S. DOT and Canadian TDG Surface Transportation:**

Proper shipping name UN 1950 AEROSOLS, Non-Flammable, 2.2, LTD QTY

Material Safety Data Sheet

according to ANSI Z400.1- 2004 and 29 CFR 1910.1200



PLEDGE® MULTI SURFACE CLEANER DISINFECTANT

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Print Date 02/02/2015

Revision Date 01/10/2014

MSDS Number 350000021920

Class: 2.2
UN number 1950
Packaging group: None.

Sea transport

▪ *IMDG:*
Proper shipping name UN 1950 AEROSOLS, Non-Flammable, 2.2, LTD QTY
Class: 2
UN number: 1950
Packaging group: None.
EmS: F-D, S-U

Air transport

▪ *ICAO/IATA:*
Proper shipping name UN 1950 AEROSOLS, Non-Flammable, 2.2, LTD QTY
Class: 2.2
UN/ID No.: UN 1950
Packaging group: None.

15. REGULATORY INFORMATION

Notification status : All ingredients of this product are listed or are excluded from listing on the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

Notification status : All ingredients of this product comply with the New Substances Notification requirements under the Canadian Environmental Protection Act (CEPA).

California Prop. 65 : This product is not subject to the reporting requirements under California's Proposition 65.

16. OTHER INFORMATION

HMIS Ratings

Health	1
Flammability	0
Reactivity	0

NFPA Ratings

Health	1
Fire	0
Reactivity	0

Material Safety Data Sheet

according to ANSI Z400.1- 2004 and 29 CFR 1910.1200



PLEDGE® MULTI SURFACE CLEANER DISINFECTANT

Version 1.0

Print Date 02/02/2015

Revision Date 01/10/2014

MSDS Number 350000021920

Special	-
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This information is being provided in accordance with Occupational Safety and Health Administration (OSHA) and Canada's Workplace Hazard Material Information System (WHMIS) regulations. The information supplied is designed for workplaces where product use and frequency of exposure exceeds that established for the labeled consumer use.

Further information

This document has been prepared using data from sources considered to be technically reliable. It does not constitute a warranty, expressed or implied, as to the accuracy of the information contained herein. Actual conditions of use are beyond the seller's control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State, Provincial and Local laws and regulations.

Prepared by	SC Johnson Global Safety Assessment & Regulatory Affairs (GSARA)
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SAFETY DATA SHEET

PROFORCE FOAMING ANTIBACTERIAL HAND SOAP

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : PROFORCE FOAMING ANTIBACTERIAL HAND SOAP

Other means of identification : Not applicable

Recommended use : Skin antiseptic

Restrictions on use : Reserved for industrial and professional use.

Product dilution information : Product is sold ready to use.

Company : Ecolab Inc.
4050 Corporate Dr., #100
Grapevine, Texas USA 76051-2326
1-866-999-7484

Emergency telephone : 1-866-897-8061 (US/Canada), 952-852-4656 (outside US)

Issuing date : 12/03/2014

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Flammable liquids : Category 3

GHS Label element

Hazard pictograms :



Signal Word : Warning

Hazard Statements : Flammable liquid and vapor.

Precautionary Statements : **Prevention:**
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ ventilating/ lighting/ equipment. Use only non-sparking tools. Take precautionary measures against static discharge.
Response:
In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
Storage:
Store in a well-ventilated place. Keep cool.
Disposal:
Dispose of contents/ container to an approved waste disposal plant.

Other hazards : None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture : Mixture

Chemical Name	CAS-No.	Concentration (%)
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SAFETY DATA SHEET

PROFORCE FOAMING ANTIBACTERIAL HAND SOAP

Fatty acids, coco, potassium salts	61789-30-8	5 - 10
Ethoxylated alkyl sulfate	68585-34-2	1 - 5
2-methylpentane-2,4-diol	107-41-5	1 - 5
Boric acid	10043-35-3	0.1 - 1
triclosan	3380-34-5	0.1 - 1
		0.1 - 1

SECTION 4. FIRST AID MEASURES

In case of eye contact	: Rinse with water.
In case of skin contact	: Rinse with water.
If swallowed	: Rinse mouth. Get medical attention if symptoms occur.
If inhaled	: Get medical attention if symptoms occur.
Protection of first-aiders	: No special precautions are necessary for first aid responders.
Notes to physician	: No specific measures identified.
Most important symptoms and effects, both acute and delayed	: See Section 11 for more detailed information on health effects and symptoms.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	: High volume water jet
Specific hazards during fire fighting	: Fire Hazard Keep away from heat and sources of ignition. Flash back possible over considerable distance. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.
Hazardous combustion products	: Decomposition products may include the following materials: Carbon oxides Nitrogen oxides (NOx) Sulfur oxides Oxides of phosphorus
Special protective equipment for fire-fighters	: Use personal protective equipment.
Specific extinguishing methods	: Use water spray to cool unopened containers. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	: Remove all sources of ignition. Refer to protective measures listed in sections 7 and 8.
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SAFETY DATA SHEET

PROFORCE FOAMING ANTIBACTERIAL HAND SOAP

- Environmental precautions : Do not allow contact with soil, surface or ground water.
- Methods and materials for containment and cleaning up : Eliminate all ignition sources if safe to do so. Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Keep away from fire, sparks and heated surfaces. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors).
- Conditions for safe storage : Keep away from heat and sources of ignition. Keep in a cool, well-ventilated place. Keep away from oxidizing agents. Keep out of reach of children. Keep container tightly closed. Store in suitable labeled containers.
- Storage temperature : 5 °C to 50 °C

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Ingredients	CAS-No.	Form of exposure	Permissible concentration	Basis
2-methylpentane-2,4-diol	107-41-5	Ceiling	25 ppm	ACGIH
		Ceiling	25 ppm 125 mg/m ³	NIOSH REL

- Engineering measures : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Personal protective equipment

- Eye protection : No special protective equipment required.
- Hand protection : No special protective equipment required.
- Skin protection : No special protective equipment required.
- Respiratory protection : No personal respiratory protective equipment normally required.
- Hygiene measures : No specific measures identified.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : liquid
- Color : blue
- Odor : citrus
- pH : 8.6, 100 %

SAFETY DATA SHEET

PROFORCE FOAMING ANTIBACTERIAL HAND SOAP

Flash point	: 46 °C closed cup
Odor Threshold	: No data available
Melting point/freezing point	: No data available
Initial boiling point and boiling range	: No data available
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapor pressure	: No data available
Relative vapor density	: No data available
Relative density	: 1.01
Water solubility	: No data available
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Autoignition temperature	: No data available
Thermal decomposition	: No data available
Viscosity, kinematic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Molecular weight	: No data available
VOC	: No data available

SECTION 10. STABILITY AND REACTIVITY

Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reaction known under conditions of normal use.
Conditions to avoid	: Heat, flames and sparks.
Incompatible materials	: None known.
Hazardous decomposition products	: Decomposition products may include the following materials: Carbon oxides Nitrogen oxides (NO _x) Sulfur oxides Oxides of phosphorus

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Inhalation, Eye contact, Skin contact

Potential Health Effects

Eyes : Causes eye irritation.

SAFETY DATA SHEET

PROFORCE FOAMING ANTIBACTERIAL HAND SOAP

	Health injuries are not known or expected under normal use.
Skin	: Health injuries are not known or expected under normal use.
	Health injuries are not known or expected under normal use.
Ingestion	: Health injuries are not known or expected under normal use.
Inhalation	: Health injuries are not known or expected under normal use.
Chronic Exposure	: Health injuries are not known or expected under normal use.
	Health injuries are not known or expected under normal use.

Experience with human exposure

Eye contact	: Redness, Irritation
	No symptoms known or expected.
Skin contact	: No symptoms known or expected.
	No symptoms known or expected.
Ingestion	: No symptoms known or expected.
Inhalation	: No symptoms known or expected.

Toxicity

Acute oral toxicity	: Acute toxicity estimate : > 5,000 mg/kg
Acute inhalation toxicity	: No data available
Acute dermal toxicity	: No data available
Skin corrosion/irritation	: No data available
Serious eye damage/eye irritation	: No data available
Respiratory or skin sensitization	: No data available
Carcinogenicity	: No data available
Reproductive effects	: No data available
Germ cell mutagenicity	: No data available
Teratogenicity	: No data available
STOT-single exposure	: No data available
STOT-repeated exposure	: No data available
Aspiration toxicity	: No data available

Ingredients

Acute inhalation toxicity	: 2-methylpentane-2,4-diol 4 h LC50 Rat: > 1.1 mg/l
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SAFETY DATA SHEET

PROFORCE FOAMING ANTIBACTERIAL HAND SOAP

triclosan
4 h LC50 Rat: 0.65 mg/l

Ingredients

Acute dermal toxicity : Ethoxylated alkyl sulfate
LD50 Rat: > 2,000 mg/kg

2-methylpentane-2,4-diol
LD50 Rat: > 2,000 mg/kg

triclosan
LD50 Rabbit: > 6,000 mg/kg

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Environmental Effects : Harmful to aquatic life with long lasting effects.
Harmful to aquatic life with long lasting effects.

Product

Toxicity to fish : No data available
Toxicity to daphnia and other aquatic invertebrates : No data available
Toxicity to algae : No data available

Ingredients

Toxicity to fish : Ethoxylated alkyl sulfate
96 h LC50 Fish: 28 mg/l

Ingredients

Toxicity to daphnia and other aquatic invertebrates : 2-methylpentane-2,4-diol
48 h EC50 Daphnia : 2,800 mg/l

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods : The product should not be allowed to enter drains, water courses or the soil. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.

SAFETY DATA SHEET

PROFORCE FOAMING ANTIBACTERIAL HAND SOAP

Disposal considerations : Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers. Dispose of in accordance with local, state, and federal regulations.

RCRA - Resource Conservation and Recovery Act Hazardous waste : D001 (Ignitable)

SECTION 14. TRANSPORT INFORMATION

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

Land transport (DOT)

Not dangerous goods

Sea transport (IMDG/IMO)

Not dangerous goods

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Fire Hazard

SARA 302 : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Prop 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

The ingredients of this product are reported in the following inventories:

Switzerland. New notified substances and declared preparations :
not determined

United States TSCA Inventory :
On TSCA Inventory

Canadian Domestic Substances List (DSL) :
All components of this product are on the Canadian DSL.

SAFETY DATA SHEET

PROFORCE FOAMING ANTIBACTERIAL HAND SOAP

Australia Inventory of Chemical Substances (AICS) :
not determined

New Zealand. Inventory of Chemical Substances :
On the inventory, or in compliance with the inventory

Japan. ENCS - Existing and New Chemical Substances Inventory :
not determined

Japan. ISHL - Inventory of Chemical Substances (METI) :
not determined

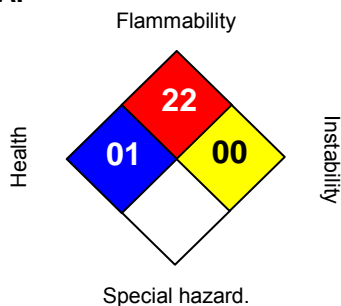
Korea. Korean Existing Chemicals Inventory (KECI) :
not determined

Philippines Inventory of Chemicals and Chemical Substances (PICCS) :
not determined

China. Inventory of Existing Chemical Substances in China (IECSC) :
not determined

SECTION 16. OTHER INFORMATION

NFPA:



HMIS III:

HEALTH	0
FLAMMABILITY	2
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

Issuing date : 12/03/2014
Version : 1.2
Prepared by : Regulatory Affairs

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

MATERIAL SAFETY DATA SHEET

QUIKRETE(R*)
CEMENT & CONCRETE PRODUCTS(TM)

RAPID SETTING REPAIR MATERIALS

MATERIAL SAFETY DATA SHEET

(COMPLIES WITH OSHA 29 CFR 1910.1200)

-----SECTION I - PRODUCT IDENTIFICATION -----

THE QUIKRETE(R*) COMPANIES
ONE SECURITIES CENTRE
3490 PIEDMONT ROAD, SUITE 1300
ATLANTA, GA 30329

EMERGENCY TELEPHONE NUMBER: (770) 216-9580

INFORMATION TELEPHONE NUMBER: (770) 216-9580

MSDS: D4

REVISION: FEB-10

QUIKRETE(R*) PRODUCT NAME	PRODUCT #
RAPID ROAD REPAIR	FIBERED 1242-50 UN-FIBERED 1242-52 EXTENDED 1242-51
HYDRAULIC WATER STOP	1126-00
QUICK SETTING CEMENT	1240-00
EXTERIOR USE ANCHORING CEMENT	1245-80

PRODUCT USE: HYDRAULIC CEMENT-BASED RAPID-SETTING REPAIR MATERIALS

HMIS:

HEALTH 1

FLAMMABILITY 0

PHYSICAL HAZARD 0

PERSONAL PROTECTION SAFETY GLASSES, GLOVES AND DUST RESPIRATOR

-----SECTION II - HAZARD IDENTIFICATION -----

ROUTE(S) OF ENTRY: INHALATION, SKIN, INGESTION

ACUTE EXPOSURE:

PRODUCT BECOMES ALKALINE WHEN EXPOSED TO MOISTURE. EXPOSURE CAN DRY THE SKIN, CAUSE ALKALI BURNS AND AFFECT THE MUCOUS MEMBRANES. DUST CAN IRRITATE THE EYES AND UPPER RESPIRATORY SYSTEM. TOXIC EFFECTS NOTED IN ANIMALS INCLUDE, FOR ACUTE EXPOSURES, ALVEOLAR DAMAGE WITH PULMONARY EDEMA.

CHRONIC EXPOSURE:
DUST CAN CAUSE INFLAMMATION OF THE LINING TISSUE OF THE INTERIOR OF THE NOSE AND INFLAMMATION OF THE CORNEA. HYPERSENSITIVE INDIVIDUALS MAY DEVELOP AN ALLERGIC DERMATITIS.

CARCINOGENICITY:
SINCE PORTLAND CEMENT AND BLENDED CEMENTS ARE MANUFACTURED FROM RAW MATERIALS MINED FROM THE EARTH (LIMESTONE, MARL, SAND, SHALE, ETC.) AND PROCESS HEAT IS PROVIDED BY BURNING FOSSIL FUELS, TRACE, BUT DETECTABLE, AMOUNTS OF NATURALLY OCCURRING, AND POSSIBLY HARMFUL, ELEMENTS MAY BE FOUND DURING CHEMICAL ANALYSIS. UNDER ASTM STANDARDS, PORTLAND CEMENT MAY CONTAIN 0.75% INSOLUBLE RESIDUE. A FRACTION OF THESE RESIDUES MAY BE FREE CRYSTALLINE SILICA. RESPIRABLE CRYSTALLINE SILICA (QUARTZ) CAN CAUSE SILICOSIS, A FIBROSIS (SCARRING) OF THE LUNGS AND POSSIBLY CANCER. THERE IS EVIDENCE THAT EXPOSURE TO RESPIRABLE SILICA OR THE DISEASE SILICOSIS IS ASSOCIATED WITH AN INCREASED INCIDENCE OF SCLERODERMA, TUBERCULOSIS AND KIDNEY DISORDERS.

CARCINOGENICITY LISTINGS:
NTP: KNOWN CARCINOGEN
OSHA: NOT LISTED AS A CARCINOGEN
IARC MONOGRAPHS: GROUP 1 CARCINOGEN
CALIFORNIA PROPOSITION 65: KNOWN CARCINOGEN

NTP:
THE NATIONAL TOXICOLOGY PROGRAM, IN ITS "NINTH REPORT ON CARCINOGENS" (RELEASED MAY 15, 2000) CONCLUDED THAT "RESPIRABLE CRYSTALLINE SILICA (RCS), PRIMARILY QUARTZ DUSTS OCCURRING IN INDUSTRIAL AND OCCUPATIONAL SETTINGS, IS KNOWN TO BE A HUMAN CARCINOGEN, BASED ON SUFFICIENT EVIDENCE OF CARCINOGENICITY FROM STUDIES IN HUMANS INDICATING A CAUSAL RELATIONSHIP BETWEEN EXPOSURE TO RCS AND INCREASED LUNG CANCER RATES IN WORKERS EXPOSED TO CRYSTALLINE SILICA DUST (REVIEWED IN IAC, 1997; BROWN ET AL., 1997; HIND ET AL., 1997)

IARC:
THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER ("IARC") CONCLUDED THAT THERE

WAS "SUFFICIENT EVIDENCE IN HUMANS FOR THE CARCINOGENICITY OF CRYSTALLINE SILICA IN THE FORMS OF QUARTZ OR CRISTOBALITE FROM OCCUPATIONAL SOURCES", AND THAT THERE IS "SUFFICIENT EVIDENCE IN EXPERIMENTAL ANIMALS FOR THE CARCINOGENICITY OF QUARTZ OR CRISTOBALITE." THE OVERALL IARC EVALUATION WAS THAT "CRYSTALLINE SILICA INHALED IN THE FORM OF QUARTZ OR CRISTOBALITE FROM OCCUPATIONAL SOURCES IS CARCINOGENIC TO HUMANS (GROUP 1)," THE IARC EVALUATION NOTED THAT "CARCINOGENICITY WAS NOT DETECTED IN ALL INDUSTRIAL CIRCUMSTANCES OR STUDIES. CARCINOGENICITY MAY BE DEPENDENT ON INHERENT CHARACTERISTICS OF THE CRYSTALLINE SILICA OR ON EXTERNAL FACTORS AFFECTING ITS BIOLOGICAL ACTIVITY OR DISTRIBUTION OF ITS POLYMORPHS." FOR FURTHER INFORMATION ON THE IARC EVALUATION, SEE IARC MONOGRAPHS ON THE EVALUATION OF CARCINOGENIC RISKS TO HUMANS, VOLUME 68, "SILICA, SOME SILICATES." (1997)

SIGNS AND SYMPTOMS OF EXPOSURE:
SYMPTOMS OF EXCESSIVE EXPOSURE TO THE DUST INCLUDE SHORTNESS OF BREATH AND REDUCED PULMONARY FUNCTION. EXCESSIVE EXPOSURE TO SKIN AND EYES ESPECIALLY WHEN MIXED WITH WATER CAN CAUSE CAUSTIC BURNS AS SEVERE AS THIRD DEGREE.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:
INDIVIDUALS WITH SENSITIVE SKIN AND WITH PULMONARY AND/OR RESPIRATORY DISEASE, INCLUDING, BUT NOT LIMITED TO, ASTHMA AND BRONCHITIS, OR SUBJECT TO EYE IRRITATION, SHOULD BE PRECLUDED FROM EXPOSURE. EXPOSURE TO CRYSTALLINE SILICA OR THE DISEASE SILICOSIS IS ASSOCIATED WITH INCREASED INCIDENCE OF SCLERODERMA, TUBERCULOSIS AND POSSIBLY INCREASED INCIDENCE OF KIDNEY LESIONS.

CHRONIC EXPOSURE:
DUST CAN CAUSE INFLAMMATION OF THE LINING TISSUE OF THE INTERIOR OF THE NOSE AND INFLAMMATION OF THE CORNEA. HYPERSENSITIVE INDIVIDUALS MAY DEVELOP AN ALLERGIC DERMATITIS. (MAY CONTAIN TRACE (<0.05%) AMOUNTS OF CHROMIUM SALTS OR COMPOUNDS INCLUDING HEXAVALENT CHROMIUM, OR OTHER METALS FOUND TO BE HAZARDOUS OR TOXIC IN SOME CHEMICAL FORMS. THESE METALS ARE MOSTLY PRESENT AS TRACE SUBSTITUTIONS WITHIN THE PRINCIPAL MINERALS)

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:
INDIVIDUALS WITH SENSITIVE SKIN AND WITH PULMONARY AND/OR RESPIRATORY DISEASE, INCLUDING, BUT NOT LIMITED TO, ASTHMA AND BRONCHITIS, OR SUBJECT TO EYE IRRITATION, SHOULD BE PRECLUDED FROM EXPOSURE.

-----SECTION III - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION -----

HAZARDOUS COMPONENTS	CAS NO.	PEL (OSHA) MG/M3	TLV (ACGIH) MG/M3
SILICA SAND, CRYSTALLINE	14808-60-7	10 %SiO ₂ +2	0.05 (RESPIRABLE)

PORTLAND CEMENT	65997-15-1	5	5
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MAY CONTAIN ONE OR MORE OF THE FOLLOWING INGREDIENTS:

AMORPHOUS SILICA	07631-86-9	80 MG/M3 % SiO ₂	10
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CALCIUM SULFATE	10101-41-4 OR 13397-24-5	5	5
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LIME	01305-62-0	5	5
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FLY ASH	68131-74-8	5	5
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CALCIUM ALUMINATE CEMENT	65997-16-2	5	5
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CLAY	01332-58-7	5	5
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PULVERIZED LIMESTONE	01317-65-3	5	5
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OTHER LIMITS:

NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH (NIOSH).

RECOMMENDED

STANDARD MAXIMUM PERMISSIBLE CONCENTRATION=0.05 MG/M3 (RESPIRABLE FREE SILICA)

AS DETERMINED BY A FULL-SHIFT SAMPLE UP TO 10-HOUR WORKING DAY, 40-HOUR WORK

WEEK. SEE NIOSH CRITERIA FOR A RECOMMENDED STANDARD OCCUPATIONAL EXPOSURE TO

CRYSTALLINE SILICA

-----SECTION IV - FIRST AID MEASURES -----

EYES:

IMMEDIATELY FLUSH EYE THOROUGHLY WITH WATER. CONTINUE FLUSHING EYE FOR AT LEAST 15 MINUTES, INCLUDING UNDER LIDS, TO REMOVE ALL PARTICLES. CALL PHYSICIAN IMMEDIATELY.

SKIN:

WASH SKIN WITH COOL WATER AND pH-NEUTRAL SOAP OR A MILD DETERGENT. SEEK MEDICAL

TREATMENT IF IRRITATION OR INFLAMMATION DEVELOPS OR PERSISTS. SEEK IMMEDIATE MEDICAL TREATMENT IN THE EVENT OF BURNS.

INHALATION:

REMOVE PERSON TO FRESH AIR. IF BREATHING IS DIFFICULT, ADMINISTER OXYGEN. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. SEEK MEDICAL HELP IF COUGHING AND OTHER SYMPTOMS DO NOT SUBSIDE. INHALATIONS OF LARGE AMOUNTS OF PORTLAND CEMENT REQUIRE IMMEDIATE MEDICAL ATTENTION.

INGESTION:

DO NOT INDUCE VOMITING. IF CONSCIOUS, HAVE THE VICTIM DRINK PLENTY OF WATER AND CALL A PHYSICIAN IMMEDIATELY.

-----SECTION V - FIRE AND EXPLOSION HAZARD DATA -----

FLAMMABILITY: NONCOMBUSTIBLE AND NOT EXPLOSIVE.

AUTO-IGNITION TEMPERATURE: NOT APPLICABLE

FLASH POINTS: NOT APPLICABLE

-----SECTION VI - ACCIDENTAL RELEASE MEASURES -----

IF SPILLED, USE DUSTLESS METHODS (VACUUM) AND PLACE INTO COVERED CONTAINER FOR DISPOSAL (IF NOT CONTAMINATED OR WET). USE ADEQUATE VENTILATION TO KEEP EXPOSURE TO AIRBORNE CONTAMINANTS BELOW THE EXPOSURE LIMIT.

-----SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND STORAGE -----

DO NOT ALLOW WATER TO CONTACT THE PRODUCT UNTIL TIME OF USE. DO NOT BREATHE DUST. IN DUSTY ENVIRONMENTS, THE USE OF AN OSHA, MSHA OR NIOSH APPROVED RESPIRATOR AND TIGHT FITTING GOGGLES IS RECOMMENDED.

-----SECTION VIII - EXPOSURE CONTROL MEASURES -----

ENGINEERING CONTROLS:

LOCAL EXHAUST CAN BE USED, IF NECESSARY, TO CONTROL AIRBORNE DUST LEVELS.

PERSONAL PROTECTION:

THE USE OF BARRIER CREAMS OR IMPERVIOUS GLOVES, BOOTS AND CLOTHING TO PROTECT

THE SKIN FROM CONTACT IS RECOMMENDED. FOLLOWING WORK, WORKERS SHOULD
SHOWER
WITH SOAP AND WATER. PRECAUTIONS MUST BE OBSERVED BECAUSE BURNS OCCUR
WITH
LITTLE WARNING - LITTLE HEAT IS SENSED.

WARN EMPLOYEES AND/OR CUSTOMERS OF THE HAZARDS AND REQUIRED OSHA
PRECAUTIONS
ASSOCIATED WITH THE USE OF THIS PRODUCT.

EXPOSURE LIMITS: CONSULT LOCAL AUTHORITIES FOR ACCEPTABLE EXPOSURE LIMITS

-----SECTION IX - PHYSICAL/CHEMICAL CHARACTERISTICS -----

APPEARANCE:
GRAY TO GRAY-BROWN COLORED POWDER. SOME PRODUCTS CONTAIN COARSE
AGGREGATE.

SPECIFIC GRAVITY: 2.6 TO 3.15

MELTING POINT: >2700 DEG. F

BOILING POINT: >2700 DEG. F

VAPOR PRESSURE: NOT APPLICABLE

VAPOR DENSITY: NOT APPLICABLE

EVAPORATION RATE: NOT APPLICABLE

SOLUBILITY IN WATER: SLIGHT

ODOR: NOT APPLICABLE

-----SECTION X - REACTIVITY DATA -----

STABILITY: STABLE.

INCOMPATIBILITY (MATERIALS TO AVOID):
MATERIAL WHEN MIXED WITH WATER WILL REACT WITH ALUMINUM AND OTHER ALKALI
AND
ALKALINE EARTH ELEMENTS LIBERATING HYDROGEN GAS.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: NONE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

CONDITION TO AVOID: KEEP DRY UNTIL USED TO PRESERVE PRODUCT UTILITY.

-----SECTION XI - TOXICOLOGICAL INFORMATION -----

ROUTES OF ENTRY: INHALATION, INGESTION

TOXICITY TO ANIMALS:
LD50: NOT AVAILABLE
LC50: NOT AVAILABLE

CHRONIC EFFECTS ON HUMANS:
CONDITIONS AGGRAVATED BY EXPOSURE INCLUDE EYE DISEASE, SKIN DISORDERS AND
CHRONIC RESPIRATORY CONDITIONS.

SPECIAL REMARKS ON TOXICITY: NOT AVAILABLE

-----SECTION XII - ECOLOGICAL INFORMATION -----

ECOTOXICITY: NOT AVAILABLE

BOD5 AND COD: NOT AVAILABLE

PRODUCTS OF BIODEGRADATION: NOT AVAILABLE

TOXICITY OF THE PRODUCTS OF BIODEGRADATION: NOT AVAILABLE

SPECIAL REMARKS ON THE PRODUCTS OF BIODEGRADATION: NOT AVAILABLE

-----SECTION XIII - DISPOSAL CONSIDERATIONS -----

WASTE DISPOSAL METHOD:
THE PACKAGING AND MATERIAL MAY BE LAND FILLED; HOWEVER, MATERIAL SHOULD
BE
COVERED TO MINIMIZE GENERATION OF AIRBORNE DUST. THIS PRODUCT IS NOT
CLASSIFIED
AS A HAZARDOUS WASTE UNDER THE AUTHORITY OF THE RCRA (40CFR 261) OR
CERCLA
(40CFR 117&302).

-----SECTION XIV - TRANSPORT INFORMATION -----

DOT/UN SHIPPING NAME: NON-REGULATED
DOT HAZARD CLASS: NON-REGULATED
SHIPPING NAME: NON-REGULATED
NON-HAZARDOUS UNDER U.S. DOT AND TDG REGULATIONS

-----SECTION XV - OTHER REGULATORY INFORMATION -----

US OSHA 29CFR 1910.1200:
CONSIDERED HAZARDOUS UNDER THIS REGULATION AND SHOULD BE INCLUDED IN THE
EMPLOYERS HAZARD COMMUNICATION PROGRAM

SARA (TITLE III) SECTIONS 311 & 312:
QUALIFIES AS A HAZARDOUS SUBSTANCE WITH DELAYED HEALTH EFFECTS

SARA (TITLE III) SECTION 313: NOT SUBJECT TO REPORTING REQUIREMENTS

TSCA (MAY 1997): ALL COMPONENTS ARE ON THE TSCA INVENTORY LIST

FEDERAL HAZARDOUS SUBSTANCES ACT:
IS A HAZARDOUS SUBSTANCE SUBJECT TO STATUES PROMULGATED UNDER THE SUBJECT
ACT

CANADIAN ENVIRONMENTAL PROTECTION ACT: NOT LISTED

WHMIS CLASSIFICATION:

CONSIDERED TO BE A HAZARDOUS MATERIAL UNDER THE HAZARDOUS PRODUCTS ACT AS
DEFINED BY THE CONTROLLED PRODUCTS REGULATIONS (CLASS D2A, E- CORROSIVE
MATERIAL) AND SUBJECT TO THE REQUIREMENTS OF HEALTH CANADA'S WORKPLACE
HAZARDOUS MATERIAL INFORMATION (WHMIS). THIS PRODUCT HAS BEEN CLASSIFIED
ACCORDING TO THE HAZARD CRITERIA OF THE CONTROLLED PRODUCTS REGULATION
(CPR).

THIS DOCUMENT COMPLIES WITH THE WHMIS REQUIREMENTS OF THE HAZARDOUS
PRODUCTS
ACT (HPA) AND THE CPR.

-----SECTION XVI - OTHER INFORMATION -----

HMS-III:

HEALTH:

- 0 = NO SIGNIFICANT HEALTH RISK
- 1 = IRRITATION OR MINOR REVERSIBLE INJURY POSSIBLE
- 2 = TEMPORARY OR MINOR INJURY POSSIBLE
- 3 = MAJOR INJURY POSSIBLE UNLESS PROMPT ACTION IS TAKEN
- 4 = LIFE THREATENING, MAJOR OR PERMANENT DAMAGE POSSIBLE

FLAMMABILITY:

- 0 = MATERIAL WILL NOT BURN
- 1 = MATERIAL MUST BE PREHEATED BEFORE IGNITION WILL OCCUR
- 2 = MATERIAL MUST BE EXPOSED TO HIGH TEMPERATURES BEFORE IGNITION
- 3 = MATERIAL CAPABLE OF IGNITION UNDER NORMAL TEMPERATURES
- 4 = FLAMMABLE GASES OR VERY VOLATILE LIQUIDS; MAY IGNITE SPONTANEOUSLY

PHYSICAL HAZARD:

- 0 = MATERIAL IS NORMALLY STABLE, EVEN UNDER FIRE CONDITIONS
- 1 = MATERIAL NORMALLY STABLE BUT MAY BECOME UNSTABLE AT HIGH TEMPS
- 2 = MATERIALS THAT ARE UNSTABLE AND MAY UNDERGO REACT AT ROOM TEMP
- 3 = MATERIALS THAT MAY FORM EXPLOSIVE MIXTURES WITH WATER
- 4 = MATERIALS THAT ARE READILY CAPABLE OF EXPLOSIVE WATER REACTION

ABBREVIATIONS:

ACGIH: AMERICAN CONFERENCE OF GOVERNMENT INDUSTRIAL HYGIENISTS
CAS: CHEMICAL ABSTRACT SERVICE
CERCLA: COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION & LIABILITY
ACT
CFR: CODE OF FEDERAL REGULATIONS

CPR: CONTROLLED PRODUCTS REGULATIONS (CANADA)
DOT: DEPARTMENT OF TRANSPORTATION
IARC: INTERNATIONAL AGENCY FOR RESEARCH
MSHA: MINE SAFETY AND HEALTH ADMINISTRATION
NIOSH: NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH
NTP: NATIONAL TOXICITY PROGRAM
OSHA: OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
PEL: PERMISSIBLE EXPOSURE LIMIT
RCRA: RESOURCE CONSERVATION AND RECOVERY ACT
SARA: SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT
TLV: THRESHOLD LIMIT VALUE
TWA: TIME-WEIGHTED AVERAGE
WHMIS: WORKPLACE HAZARDOUS MATERIAL INFORMATION SYSTEM

REVISION #: 07-01, SUPERSEDES ALL PREVIOUS REVISIONS.

CREATED: 10/25/2006

LAST UPDATED: FEBRUARY 23, 2010

NOTE:

THE INFORMATION AND RECOMMENDATIONS CONTAINED HEREIN ARE BASED UPON DATA BELIEVED TO BE CORRECT. HOWEVER, NO GUARANTEE OR WARRANTY OF ANY KIND, EXPRESS

OR IMPLIED, IS MADE WITH RESPECT TO THE INFORMATION CONTAINED HEREIN. WE ACCEPT

NO RESPONSIBILITY AND DISCLAIM ALL LIABILITY FOR ANY HARMFUL EFFECTS WHICH MAY

BE CAUSED BY EXPOSURE TO SILICA CONTAINED IN OUR PRODUCTS.

ONE SECURITIES CENTRE.
3490 PIEDMONT ROAD
SUITE 1300, ATLANTA, GA 30305

TEL: 404-634-9100

WWW.QUIKRETE.COM

MATERIAL SAFETY DATA SHEET

PAI NUMBER: 18210
 PRODUCT NAME: SCOTCHKOTE BRAND ELECTRICAL COATING
 UPC NUMBER: 00-54007-14853-1 00-54007-49547-5

*****SECTION I*****

MANUFACTURED FOR PARTS ASSOCIATES INC.

DISTRIBUTORS NAME: PARTS ASSOCIATES INC.
 DISTRIBUTOR'S ADDRESS: 12420 PLAZA DR.
 CITY, STATE, ZIP: PARMA, OH 44130
 TELEPHONE NUMBER: 216-433-7700
 EMERGENCY TELEPHONE: (800) 255-3924 CHEM-TEL, INC.
 DATE ISSUED: 02/15/94 SUPERSEDES: 03/15/93

SECTION II: HAZARDOUS INGREDIENTS/IDENTITY INFO

HAZARDOUS COMPONENTS:

INGREDIENT	CAS NO.	PERCENT
ACETONE	67-64-1	40.0 - 45.0
METHYL ETHYL KETONE	78-93-3	12.0 - 15.0
TOLUENE	108-88-3	12.0 - 15.0
ACRYLONITRILE-BUTADIENE POLYMER	9003-18-3	10.0 - 15.0
PHENOL-FORMALDEHYDE RESIN	25085-50-1	3.0 - 7.0
GLYCEROL ESTERS OF ROSIN ACIDS	8050-31-5	3.0 - 7.0
SALICYLIC ACID	69-72-7	1.0 - 2.0
ZINC OXIDE	1314-13-2	1.0 - 2.0
ANTIOXIDANT	68411-46-1	0.1 - 1.0

NOTE: ALL INGREDIENTS ON TSCA; EINECS; CDSL

THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICAL OR CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372:

ACETONE METHYL ETHYL KETONE TOLUENE ZINC OXIDE

SECTION III: PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT: 56.5C
 SPECIFIC GRAVITY: 0.88
 VAPOR PRESSURE: 229 MM HG @25C
 VAPOR DENSITY: 2.00
 EVAPORATION RATE: N/D
 SOLUBILITY IN WATER: NIL
 PERCENT VOLATILE: 75
 VOLATILE ORGANICS: CA. 600.00 GMS/LITER
 VOC LESS H2O & EXEMPT SOLVENT: N/D
 PH: N/A

VISCOSITY: 325 CFS
APPEARANCE AND COLOR: LIQUID, BROWN, SOLVENT ODOR

SECTION IV: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: OF CLOSED CUP
FLAMMABLE LIMITS: LEL: 2.15% UEL: 13.0%
AUTOIGNITION TEMPERATURE: N/D

EXTINGUISHING MEDIA:
...CARBON DIOXIDE, DRY CHEMICAL, FOAM

SPECIAL FIRE FIGHTING PROCEDURES:
...WEAR FULL PROTECTIVE CLOTHING, INCLUDING HELMET, SELF-CONTAINED, POSITIVE PRESSURE OR PRESSURE DEMAND BREATHING APPARATUS, BUNKER COAT AND PANTS, BANDS AROUND ARMS, WAIST AND LEGS, FACE MASK, AND PROTECTIVE COVERING FOR EXPOSED AREAS OF THE HEAD.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
...VAPORS MAY TRAVEL LONG DISTANCES ALONG THE GROUND OR FLOOR TO AN IGNITION SOURCE AND FLASH BACK.

NFPA-HAZARD-CODES:
...HEALTH - 2, FIRE - 3, REACTIVITY - 0

UNUSUAL REACTION HAZARD:
...NONE

OSHA FIRE HAZARD CLASS:
...CLASS IB FLAMMABLE LIQUID

SECTION V: REACTIVITY DATA

STABILITY:
...STABLE
INCOMPATIBILITY (MATERIALS TO AVOID):
...NONE KNOWN
HAZARDOUS DECOMPOSITION PRODUCTS:
...CARBON DIOXIDE, CARBON MONOXIDE, OXIDES OF NITROGEN, HYDROCARBONS, AMINE COMPOUNDS
HAZARDOUS POLYMERIZATION:
...WILL NOT OCCUR

SECTION VI: ENVIRONMENTAL INFORMATION

SPILL RESPONSE:
...OBSERVE PRECAUTIONS FROM OTHER SECTIONS. VENTILATE AREA. EXTINGUISH ALL IGNITION SOURCES. CONTAIN SPILL. COVER WITH INORGANIC ABSORBENT MATERIAL. COLLECT SPILLED MATERIAL. CLEAN UP RESIDUE. PLACE IN APPROVED METAL CONTAINER.

RECOMMENDED DISPOSAL:
...INCINERATE IN A PERMITTED HAZARDOUS WASTE INCINERATOR.

ENVIRONMENTAL DATA:
...NOT DETERMINED.

REGULATORY INFORMATION:

...SINCE REGULATIONS VARY, CONSULT APPLICABLE REGULATIONS OR AUTHORITIES BEFORE DISPOSAL. IN THE EVENT OF AN UNCONTROLLED RELEASE OF THIS MATERIAL, THE USER SHOULD DETERMINE IF THE RELEASE QUALIFIES AS A REPORTABLE QUANTITY. U.S. EPA HAZARDOUS WASTE NUMBER = D001 (IGNITABLE).

SARA HAZARD CLASS:

...FIRE HAZARD - YES
...PRESSURE - NO
...REACTIVITY - NO
...ACUTE - YES
...CHRONIC - YES

SECTION VII: SUGGESTED FIRST AID

EYE CONTACT:

...IMMEDIATELY FLUSH EYES WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. GET IMMEDIATE MEDICAL ATTENTION.

SKIN CONTACT:

...IMMEDIATELY FLUSH SKIN WITH LARGE AMOUNTS OF WATER. REMOVE CONTAMINATED CLOTHING. IF IRRITATION PERSISTS, CALL A PHYSICIAN. WASH CONTAMINATED CLOTHING BEFORE REUSE.

INHALATION:

...REMOVE PERSON TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GET IMMEDIATE MEDICAL ATTENTION.

IF SWALLOWED:

...DO NOT INDUCE VOMITING. DRINK TWO GLASSES OF WATER. CALL A PHYSICIAN.

SECTION VIII: PRECAUTIONARY INFORMATION

EYE PROTECTION:

...AVOID EYE CONTACT. WEAR UNVENTED GOGGLES DURING OPERATIONS IN WHICH EXPOSURE IS LIKELY.

SKIN PROTECTION:

...AVOID SKIN CONTACT. WEAR APPROPRIATE GLOVES WHEN HANDLING THIS MATERIAL. A PAIR OF GLOVES MADE FROM THE FOLLOWING MATERIAL(S) ARE RECOMMENDED: BUTYL RUBBER. USE ONE OR MORE OF THE FOLLOWING PERSONAL PROTECTION ITEMS AS NECESSARY TO PREVENT SKIN CONTACT: APRON, OVERALLS.

VENTILATION PROTECTION:

...USE WITH APPROPRIATE LOCAL EXHAUST VENTILATION. PROVIDE APPROPRIATE LOCAL EXHAUST VENTILATION AT TRANSFER POINTS. PROVIDE APPROPRIATE LOCAL EXHAUST VENTILATION ON OPEN CONTAINERS. PROVIDE SUFFICIENT VENTILATION TO MAINTAIN EMISSIONS BELOW RECOMMENDED EXPOSURE LIMITS. IF EXHAUST VENTILATION IS NOT ADEQUATE, USE APPROPRIATE RESPIRATORY PROTECTION.

RESPIRATORY PROTECTION:

...AVOID BREATHING OF VAPORS, MISTS, OR SPRAY. SELECT ONE OF THE FOLLOWING NIOSH APPROVED RESPIRATORS BASED ON AIRBORNE CONCENTRATION OF CONTAMINANTS AND IN ACCORDANCE WITH OSHA REGULATIONS: HALF-MASK ORGANIC VAPOR RESPIRATOR, FULL-FACE ORGANIC VAPOR RESPIRATOR.

PREVENTION OF ACCIDENTAL INGESTION:

...DO NOT EAT, DRINK, OR SMOKE WHEN USING THIS PRODUCT. WASH EXPOSED AREAS THOROUGHLY WITH SOAP AND WATER.

RECOMMENDED STORAGE:

...STORE IN A COOL PLACE. STORE AWAY FROM ACIDS. STORE OUT OF DIRECT SUNLIGHT. KEEP CONTAINER IN WELL-VENTILATED AREA. CONTENTS MAY BE UNDER PRESSURE, OPEN CAREFULLY. KEEP OUT OF THE REACH OF CHILDREN.

FIRE AND EXPLOSION AVOIDANCE:

...KEEP CONTAINER TIGHTLY CLOSE. FLAMMABLE LIQUID AND VAPOR. KEEP AWAY FROM HEAT, SPARKS, OPEN FLAME, AND OTHER SOURCES OF IGNITION. GROUND CONTAINERS SECURELY WHEN TRANSFERRING CONTENTS. WEAR LOW STATIC OR PROPERLY GROUNDED SHOES. NO SMOKING WHILE HANDLING THIS MATERIAL. VAPORS MAY IGNITE EXPLOSIVELY.

****EXPOSURE LIMITS****

INGREDIENTS	VALUE	UNIT	TYPE	AUTH	SKIN*
ACETONE	750	PPM	TWA	ACGIH	
ACETONE	1000	PPM	STEL	ACGIH	
ACETONE	750	PPM	TWA	OSHA	
ACETONE	1000	PPM	STEL	OSHA	
METHYL ETHYL KETONE	200	PPM	TWA	OSHA	
METHYL ETHYL KETONE	300	PPM	STEL	OSHA	
METHYL ETHYL KETONE	200	PPM	TWA	ACGIH	
METHYL ETHYL KETONE	300	PPM	STEL	ACGIH	
TOLUENE	50	PPM	TWA	ACGIH	Y
TOLUENE	100	PPM	TWA	OSHA	
TOLUENE	150	PPM	STEL	OSHA	
ACRYLONITRILE-BUTADIENE POLYMER	NONE	NONE	NONE	NONE	
PHENOL-FORMALDEHYDE RESIN	NONE	NONE	NONE	NONE	
GLYCEROL ESTERS OF ROSIN ACIDS	NONE	NONE	NONE	NONE	
SALICYLIC ACID	NONE	NONE	NONE	NONE	
ZINC OXIDE	10	MG/M3 (AS DUST)	TWA	ACGIH	
ZINC OXIDE	10	MG/M3 (AS DUST)	TWA	OSHA	
ZINC OXIDE	5	MG/M3 (AS FUME)	TWA	ACGIH	
ZINC OXIDE	10	MG/M3 (AS FUME)	STEL	ACGIH	
ZINC OXIDE	5	MG/M3 (AS FUME)	TWA	OSHA	
ZINC OXIDE	10	MG/M3 (AS FUME)	STEL	OSHA	
ANTIOXIDANT	NONE	NONE	NONE	NONE	

*SKIN NOTATION: LISTED SUBSTANCES INDICATED WITH "Y" UNDER SKIN REFER TO THE POTENTIAL CONTRIBUTION TO THE OVERALL EXPOSURE BY THE CUTANEOUS ROUTE INCLUDING MUCOUS MEMBRANE AND EYE, EITHER BY AIRBORNE OR, MORE PARTICULARLY, BY DIRECT CONTACT WITH THE SUBSTANCE. VEHICLES CAN ALTER SKIN ABSORPTION.

SOURCE OF EXPOSURE LIMIT DATA:

- ACGIH: AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS
- OSHA: OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
- NONE: NONE ESTABLISHED

*****SECTION IX: HEALTH HAZARD DATA*****

EYE CONTACT:

...MODERATE EYE IRRITATION: SIGNS/SYMPTOMS CAN INCLUDE REDNESS, SWELLING, PAIN, TEARING, AND HAZY VISION.

SKIN CONTACT:

...MODERATE SKIN IRRITATION (AFTER PROLONGED OR REPEATED CONTACT): SIGNS/SYMPTOMS CAN INCLUDE REDNESS, SWELLING, ITCHING, AND DRYNESS.

MAY BE ABSORBED THROUGH THE SKIN AND PRODUCE EFFECTS SIMILAR TO THOSE CAUSED BY INHALATION AND/OR INGESTION.

INHALATION:

...CENTRAL NERVOUS SYSTEM DEPRESSION: SIGNS/SYMPTOMS CAN INCLUDE HEADACHE, DIZZINESS, DROWSINESS, INCOORDINATION, SLOWED REACTION TIME, SLURRED SPEECH, GIDDINESS AND UNCONSCIOUSNESS.

IRRITATION (UPPER RESPIRATORY): SIGNS/SYMPTOMS CAN INCLUDE SORENESS OF THE NOSE AND THROAT, COUGHING, AND SNEEZING.

VAPORS OF THE UNCURED PRODUCT MAY CAUSE IRRITATION OF THE RESPIRATORY SYSTEM.

PROLONGED OR REPEATED EXPOSURE MAY CAUSE: BLOOD DISORDERS - SIGNS/SYMPTOMS CAN INCLUDE PROLONGED WEAKNESS AND FATIGUE. LIVER EFFECTS - SIGNS/SYMPTOMS CAN INCLUDE YELLOW SKIN (JAUNDICE) AND TENDERNESS OF UPPER ABDOMEN.

PROLONGED OR REPEATED OVEREXPOSURE, ABOVE RECOMMENDED GUIDELINES, MAY CAUSE: CARDIAC SENSITIZATION - SUDDEN HEART STOPPAGE DUE TO A REFLEX EFFECT ON THE NERVES WHICH CONTROL THE HEART. THIS EFFECT USUALLY OCCURS ONLY AFTER INHALATION OF CONCENTRATED VAPORS SUCH AS IN INTENTIONAL ABUSIVE SNIFFING OF CERTAIN SOLVENTS AND PROPELLANTS.

IF SWALLOWED:

...INGESTION IS NOT A LIKELY ROUTE OF EXPOSURE TO THIS PRODUCT.

IRRITATION OF GASTROINTESTINAL TISSUES: SIGNS/SYMPTOMS CAN INCLUDE PAIN, VOMITING, ABDOMINAL TENDERNESS, NAUSEA, BLOOD IN VOMITUS, AND BLOOD IN FECES.

CENTRAL NERVOUS SYSTEM DEPRESSION: SIGNS/SYMPTOMS CAN INCLUDE HEADACHE,, DIZZINESS, DROWSINESS, MUSCULAR WEAKNESS, INCOORDINATION, SLOWED REACTION TIME, FATIGUE, BLURRED VISION, SLURRED SPEECH, GIDDINESS, TREMORS AND CONVULSIONS.

ASPIRATION PNEUMONITIS: SIGNS/SYMPTOMS CAN INCLUDE COUGHING, DIFFICULTY BREATHING, WHEEZING, COUGHING UP BLOOD AND PNEUMONIA, WHICH CAN BE FATAL.

REPEATED INGESTION MAY CAUSE: KIDNEY EFFECTS - SIGNS/SYMPTOMS CAN INCLUDE REDUCED URINE VOLUME, BLOOD IN URINE AND BACK PAIN. LIVER EFFECTS - SIGNS/SYMPTOMS CAN INCLUDE YELLOW SKIN (JAUNDICE) AND TENDERNESS OF UPPER ABDOMEN.

REPRODUCTIVE/DEVELOPMENTAL TOXINS:

...TOLUENE (108-88-3) - THE STATE OF CALIFORNIA HAS DETERMINED THAT OVEREXPOSURE TO TOLUENE DURING PREGNANCY MAY CAUSE BIRTH DEFECTS.

...SALICYLIC ACID (69-72-7) - HAS BEEN ASSOCIATED WITH LOWER BIRTH WEIGHTS, INCREASED PERINATAL MORTALITY, ANTE- AND POSTPARTUM HEMORRHAGE, PROLONGED GESTATION AND COMPLICATED DELIVERIES.

SECTION CHANGE DATES:

...HEADING - SECTION CHANGED SINCE MARCH 15, 1993 ISSUE

*****SECTION X: DISCLAIMER *****

THIS INFORMATION IS BELIEVED TO BE ACCURATE AND REPRESENTS THE BEST INFORMATION CURRENTLY AVAILABLE TO US. HOWEVER, WE MAKE NO WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, WITH RESPECT TO SUCH INFORMATION, AND WE ASSUME NO LIABILITY RESULTING FROM ITS USE. USERS SHOULD MAKE THEIR OWN INVESTIGATION TO DETERMINE THE SUITABILITY OF THE INFORMATION FOR THEIR PARTICULAR PURPOSES.

SAFETY DATA SHEET

SCOTT® Hair and Body Wash

Version 1.0 Revision Date: 06-02-2015 MSDS Number: 100000003292 Date of last issue: -
Date of first issue: 06-02-2015

SECTION 1. IDENTIFICATION

Product name : SCOTT® Hair and Body Wash

Product code : 91325, 91726, 92542, 91320

Manufacturer or supplier's details

Company name of supplier : Kimberly-Clark Corporation

Address : 1400 Holcomb Bridge Road,
Roswell, GA 30076-2199

Telephone : 1-888-346-6452

Emergency telephone : 1-877-561-6587

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Not a hazardous substance or mixture.

GHS Label element

Not a hazardous substance or mixture.

Other hazards

The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity:
3.28 %

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical nature : Cosmetics

Hazardous ingredients

Chemical Name	CAS-No.	Concentration (%)
Sodium laureth sulfate	68585-34-2	>= 5 - < 10
Cocamidopropyl Betaine	61789-40-0	>= 1 - < 5

SECTION 4. FIRST AID MEASURES

General advice : No hazards which require special first aid measures.

If inhaled : Remove person to fresh air. If signs/symptoms continue, get medical attention.

In case of skin contact : Wash off with warm water.
If skin irritation persists, call a physician.

In case of eye contact : Flush eyes with water at least 15 minutes. Get medical atten-

SAFETY DATA SHEET

SCOTT® Hair and Body Wash

Version	Revision Date:	MSDS Number:	Date of last issue: -
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tion if eye irritation develops or persists.

If swallowed : Clean mouth with water and drink afterwards plenty of water. If symptoms persist, call a physician or Poison Control Center immediately.

Most important symptoms and effects, both acute and delayed : No information available.

Notes to physician : No information available.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Hazardous combustion products : Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

Further information : Standard procedure for chemical fires.

Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Not required under normal use. No conditions to be specially mentioned.

Environmental precautions : No special environmental precautions required.

Methods and materials for containment and cleaning up : Wipe up with absorbent material (e.g. cloth, fleece). Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Advice on safe handling : For personal protection see section 8. No special handling advice required.

Conditions for safe storage : Store at room temperature in the original container.

Materials to avoid : No special restrictions on storage with other products.

SAFETY DATA SHEET

SCOTT® Hair and Body Wash

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Date of first issue: 06-02-2015

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

Hazardous components without workplace control parameters

Ingredients	CAS-No.
Sodium laureth sulfate	68585-34-2
Cocamidopropyl Betaine	61789-40-0

Engineering measures : none

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required.

Hand protection

Remarks : not required under normal use

Eye protection : not required under normal use

Skin and body protection : Not applicable

Protective measures : No special protective equipment required.

Hygiene measures : General industrial hygiene practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : gel
Color : pink
Odor : pleasant
pH : 5.5
Flash point : Not applicable
Relative density : 1.01 - 1.02

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Stable under recommended storage conditions.

Chemical stability : No decomposition if stored and applied as directed.

Possibility of hazardous reactions : No hazards to be specially mentioned.

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Conditions to avoid : No data available

Incompatible materials : No information available.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

Acute oral toxicity : Acute toxicity estimate: > 5,000 mg/kg
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: > 40 mg/l
Exposure time: 4 h
Test atmosphere: vapor
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 5,000 mg/kg
Method: Calculation method

Skin corrosion/irritation

Product:

Result: No skin irritation

Ingredients:

Cocamidopropyl Betaine:

Result: Skin irritation

Serious eye damage/eye irritation

Product:

Result: No eye irritation

Ingredients:

Cocamidopropyl Betaine:

Result: Eye irritation

Respiratory or skin sensitization

Product:

Remarks: No data available

Ingredients:

Cocamidopropyl Betaine:

Result: Does not cause skin sensitization.

Carcinogenicity

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Date of first issue: 06-02-2015

IARC No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Experience with human exposure

Product:

Inhalation : Remarks: No human information is available.

Skin contact : Remarks: No human information is available.

Eye contact : Remarks: No human information is available.

Ingestion : Remarks: No human information is available.

Further information

Product:

Remarks: No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Ingredients:

Cocamidopropyl Betaine:

Toxicity to fish : LC50 (Fish): 1.11 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50: 1.9 mg/l
Exposure time: 48 h

Toxicity to algae : EC50: 5.6 mg/l
Exposure time: 72 h

Persistence and degradability

Ingredients:

Cocamidopropyl Betaine:

Biodegradability : Result: Readily biodegradable.

SAFETY DATA SHEET

SCOTT® Hair and Body Wash

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Date of first issue: 06-02-2015

Bioaccumulative potential

Ingredients:

Cocamidopropyl Betaine:

Partition coefficient: n-octanol/water : Remarks: Not applicable

Mobility in soil

No data available

Other adverse effects

Product:

Additional ecological information : There is no data available for this product.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging : Empty remaining contents.

SECTION 14. TRANSPORT INFORMATION

International Regulation

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

49 CFR

Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

TSCA list : Not relevant

EPCRA - Emergency Planning and Community Right-to-Know

SARA 311/312 Hazards : No SARA Hazards

SAFETY DATA SHEET

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Date of first issue: 06-02-2015

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

US State Regulations

Massachusetts Right To Know

1,4-dioxane	123-91-1	0 - 0.1 %
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Pennsylvania Right To Know

7732-18-5	Not Assigned	70 - 90 %
Sodium laureth sulfate	68585-34-2	5 - 10 %
sodium sulphate	7757-82-6	0.1 - 1 %

New Jersey Right To Know

7732-18-5	Not Assigned	70 - 90 %
Sodium laureth sulfate	68585-34-2	5 - 10 %
7647-14-5	Not Assigned	1 - 5 %
Cocamidopropyl Betaine	61789-40-0	1 - 5 %

California Prop 65 : This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

SAFETY DATA SHEET

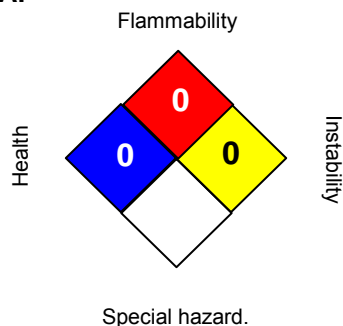
SCOTT® Hair and Body Wash

Version 1.0 Revision Date: 06-02-2015 MSDS Number: 100000003292 Date of last issue: -
Date of first issue: 06-02-2015

SECTION 16. OTHER INFORMATION

Further information

NFPA:



HMIS III:

HEALTH	0
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

Revision Date : 06-02-2015

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

US / Z8



SAFETY DATA SHEET

1. Identification

Product identifier SHEETROCK® Brand Gypsum Sheathing Panels

Other means of identification

SDS number 54000000003

Synonyms Gypsum Panels, Drywall, Plasterboard, Wallboard

Recommended use Exterior use.

Recommended restrictions Use in accordance with manufacturer's recommendations.

Manufacturer / Importer / Supplier / Distributor information

Company name United States Gypsum Company

Address 550 West Adams Street
Chicago, Illinois 60661-3637

Telephone 1-800-874-4968

Website www.usg.com

Emergency phone number 1-800-507-8899

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Not classified.

OSHA defined hazards Not classified.

Label elements

Hazard symbol None.

Signal word None.

Hazard statement None.

Precautionary statement

Prevention Observe good industrial hygiene practices.

Response Get medical attention/advice if you feel unwell.

Storage Store as indicated in Section 7.

Disposal Dispose of in accordance with local, state, and federal regulations.

Hazard(s) not otherwise classified (HNOC) Not classified.

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%
Calcium sulfate dihydrate (alternative CAS 10101-41-4)	13397-24-5	≥ 85
Cellulose	9004-34-6	< 10

Composition comments All concentrations are in percent by weight unless ingredient is a gas.

The gypsum used to manufacture these panels contains respirable crystalline silica ranging up to 0.56 percent by weight, depending on source, as indicated by bulk sampling methods. Industrial hygiene laboratory testing using both personal and area sampling measured no detectable respirable crystalline silica when cutting the product by "score and snap," rotary saw, or circular saw. Good work practices which minimize the extent of dust generation should be followed, and actual employee exposure must be determined by workplace industrial hygiene testing.

4. First-aid measures

Inhalation Dust irritates the respiratory system, and may cause coughing and difficulties in breathing. Move injured person into fresh air and keep person calm under observation. Get medical attention if symptoms persist.

Skin contact Contact with dust: Rinse area with plenty of water. Get medical attention if irritation develops or persists.

Eye contact Dust in the eyes: Do not rub eyes. Flush thoroughly with water. If irritation occurs, get medical assistance.

Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	Under normal conditions of intended use, this material does not pose a risk to health. Dust may irritate throat and respiratory system and cause coughing.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically.
General information	Ensure that medical personnel are aware of the material(s) involved.

5. Fire-fighting measures

Suitable extinguishing media	Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media	Not applicable.
Specific hazards arising from the chemical	Not a fire hazard.
Special protective equipment and precautions for firefighters	Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire-fighting equipment/instructions	Use standard firefighting procedures and consider the hazards of other involved materials.
Specific methods	Cool material exposed to heat with water spray and remove it if no risk is involved.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	See Section 8 of the SDS for Personal Protective Equipment.
Methods and materials for containment and cleaning up	No specific clean-up procedure noted. For waste disposal, see Section 13 of the SDS.
Environmental precautions	Avoid discharge to drains, sewers, and other water systems.

7. Handling and storage

Precautions for safe handling	Use work methods which minimize dust production. Avoid inhalation of dust and contact with skin and eyes. Wear appropriate personal protective equipment. Wash hands after handling. Observe good industrial hygiene practices. When moving board with a forklift or similar equipment, it is essential that the equipment be rated capable of handling the loads. The forks should always be long enough to extend completely through the width of the load. Fork spacing between supports should be one half the length of the panels or base being handled so that a maximum of 4' extends beyond the supports on either end. Follow traditional building practices; such as management of water away from the interior of the structure to avoid the growth of mold, mildew and fungus. Remove any building products suspected of being exposed to sustained moisture and considered conducive to mold growth from the job site. Gypsum panels are very heavy, awkward loads posing the risk of severe back injury. Use proper lifting techniques.
Conditions for safe storage, including any incompatibilities	Store in a cool, dry, well-ventilated place. Store away from incompatible materials. Protect product from physical damage. Protect from weather and prevent exposure to sustained moisture. Gypsum Association literature (GA-801-07) recommends storing board flat to avoid damaging edges, warping the board and the potential safety hazards of the board falling over. However, in other situations, storing the board flat may cause a tripping hazard or exceed floor limit loads. If stacking board vertically, leave at least 4 inches from the wall to decrease the risk of falling board and no more than 6 inches to avoid too much lateral weight against the wall.

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value	Form
Calcium sulfate dihydrate (alternative CAS 10101-41-4) (CAS 13397-24-5)	PEL	5 mg/m ³	Respirable fraction.
Cellulose (CAS 9004-34-6)	PEL	15 mg/m ³	Total dust.
		5 mg/m ³	Respirable fraction.
		15 mg/m ³	Total dust.

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Calcium sulfate dihydrate (alternative CAS 10101-41-4) (CAS 13397-24-5)	TWA	10 mg/m3	Inhalable fraction.
Cellulose (CAS 9004-34-6)	TWA	10 mg/m3	

US NIOSH Pocket Guide to Chemical Hazards: Recommended exposure limit (REL)

Components	Type	Value	Form
Calcium sulfate dihydrate (alternative CAS 10101-41-4) (CAS 13397-24-5)	TWA	5 mg/m3	Respirable.
Cellulose (CAS 9004-34-6)	TWA	10 mg/m3	Total
		5 mg/m3	Respirable.
		10 mg/m3	Total

Biological limit values	No biological exposure limits noted for the ingredient(s).
Appropriate engineering controls	Provide sufficient ventilation for operations causing dust formation. Observe occupational exposure limits and minimize the risk of exposure.
Individual protection measures, such as personal protective equipment	
Eye/face protection	Wear approved safety goggles.
Skin protection	
Hand protection	It is a good industrial hygiene practice to minimize skin contact. For prolonged or repeated skin contact use suitable protective gloves.
Other	Normal work clothing (long sleeved shirts and long pants) is recommended.
Respiratory protection	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Use a NIOSH/MSHA approved air purifying respirator as needed to control exposure. Consult with respirator manufacturer to determine respirator selection, use, and limitations. Use positive pressure, air-supplied respirator for uncontrolled releases or when air purifying respirator limitations may be exceeded. Follow respirator protection program requirements (OSHA 1910.134 and ANSI Z88.2) for all respirator use. Observe any medical surveillance requirements.
Thermal hazards	None.
General hygiene considerations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Observe any medical surveillance requirements.

9. Physical and chemical properties

Appearance	Paper faced with gypsum core.
Physical state	Solid.
Form	Panel.
Color	Gray to off-white.
Odor	Low to no odor.
Odor threshold	Not applicable.
pH	6 - 8
Melting point/freezing point	Not applicable.
Initial boiling point and boiling range	Not applicable.
Flash point	Not applicable.
Evaporation rate	Not applicable.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not applicable.
Flammability limit - upper (%)	Not applicable.
Explosive limit - lower (%)	Not applicable.
Explosive limit - upper (%)	Not applicable.

Vapor pressure	Not applicable.
Vapor density	Not applicable.
Relative density	2.32 (Gypsum) (H ₂ O=1)
Solubility(ies)	0.26 g/100 g (H ₂ O)
Partition coefficient (n-octanol/water)	Not applicable.
Auto-ignition temperature	Not applicable.
Decomposition temperature	2642 °F (1450 °C)
Viscosity	Not applicable.
Other information	
Bulk density	49 lb/ft ³
Particle size	Varies.
VOC (Weight %)	0 %

10. Stability and reactivity

Reactivity	The product is stable and non reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents. Strong acids.
Hazardous decomposition products	Calcium oxides, carbon dioxide, and carbon monoxide.

11. Toxicological information

Information on likely routes of exposure

Ingestion	Not likely, due to the form of the product.
Inhalation	Mechanical processing may generate dust. Gypsum dust has an irritant action on mucous membranes of the upper respiratory tract and eyes (1).
Skin contact	Under normal conditions of intended use, this material does not pose a skin hazard. Gypsum was not found to be a skin irritant (2).
Eye contact	Mechanical processing may generate dust. Direct contact with eyes may cause temporary irritation (1).

Symptoms related to the physical, chemical and toxicological characteristics	Under normal conditions of intended use, this material does not pose a risk to health.
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Information on toxicological effects

Acute toxicity	Low hazard.
Skin corrosion/irritation	Gypsum was not found to be a skin irritant.
Serious eye damage/eye irritation	Gypsum does not cause serious eye damage or irritation.
Respiratory sensitization	No data available, but based on results from the skin sensitization study, calcium sulfate is not expected to be a respiratory sensitizer.
Skin sensitization	Not a skin sensitizer (2).
Germ cell mutagenicity	No evidence of mutagenic potential exists (3,4,5).
Carcinogenicity	No evidence of carcinogenic potential exists (6).
Reproductive toxicity	No evidence of reproductive toxicity exists (2).
Specific target organ toxicity - single exposure	Not toxic to lung tissue.
Specific target organ toxicity - repeated exposure	Not toxic to lung tissue (6).
Aspiration hazard	Due to the physical form of the product it is not an aspiration hazard.
Further information	Pre-existing skin and respiratory conditions including dermatitis, asthma and chronic lung disease might be aggravated by exposure.

12. Ecological information

Ecotoxicity The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components	Species	Test Results
Calcium sulfate dihydrate (alternative CAS 10101-41-4) (CAS 13397-24-5)		
Aquatic		
Fish	LC50	Fathead minnow (<i>Pimephales promelas</i>) > 1970 mg/l, 96 hours

Persistence and degradability Not applicable for the salt of inorganic compounds. Calcium sulfate dissolves in water without undergoing chemical degradation.

Bioaccumulative potential Bioaccumulation is not expected.

Mobility in soil Calcium sulfate has a low potential for adsorption to soil. If water is applied, gypsum dissolves and the calcium and sulfate ions are mobile and penetrate the subsoil (7).

Other adverse effects None expected.

13. Disposal considerations

Disposal instructions Dispose in accordance with applicable federal, state, and local regulations. Recycle responsibly.

Local disposal regulations Dispose of in accordance with local regulations.

Hazardous waste code Not regulated.

Waste from residues / unused products Dispose of in accordance with local regulations.

Contaminated packaging Dispose of in accordance with local regulations.

14. Transport information

DOT

Not regulated as a hazardous material by DOT.

IATA

Not regulated as a dangerous good.

IMDG

Not regulated as a dangerous good.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable. This product is a solid. Therefore, bulk transport is governed by IMSBC code.

15. Regulatory information

US federal regulations This product is not hazardous according to OSHA 29CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
Immediate Hazard - No
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

SARA 302 Extremely hazardous substance No

SARA 311/312 Hazardous chemical No

SARA 313 (TRI reporting)
Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA) Not regulated.

Food and Drug Administration (FDA) Not regulated.

US state regulations This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

US. Massachusetts RTK - Substance List

Calcium sulfate dihydrate (alternative CAS 10101-41-4) (CAS 13397-24-5)
Cellulose (CAS 9004-34-6)

US. New Jersey Worker and Community Right-to-Know Act

Not regulated.

US. Pennsylvania RTK - Hazardous Substances

Calcium sulfate dihydrate (alternative CAS 10101-41-4) (CAS 13397-24-5)
Cellulose (CAS 9004-34-6)

US. Rhode Island RTK

Not regulated.

US. California Proposition 65

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

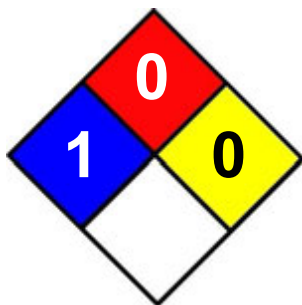
Issue date 19-December-2013

Revision date 24-March-2017

Version # 02

Further information NFPA Ratings:
Health: 1
Flammability: 0
Physical hazard: 0
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

NFPA Ratings



List of abbreviations

NFPA: National Fire Protection Association.

References

1. US National Library of Medicine (NLM) (1998). Hazardous Substances Data Bank (HSDB).
2. Tested by LG Life Science/Toxicology Center, Korea (2002). National Institute of Environmental Research (NIER).
3. Dopp E et al. (1995). Environ. Health Perspect. 103(3), 268-271.
4. Cremer H.H. et al. (1988). Wiss. Umwelt. 4, 202-205.
5. Fujita H et al. (1988). Kenkyu Nenpo-Tokyo-Toritsu Eisei Kenkyunsho. 39, 343-350.
6. Clouter et al. (1998). Inhal. Toxicol. 10, 3-14.
7. Shainberg et al. (1989). Advanced Soil Sci. 9, 1-111.

Disclaimer

This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.



SECTION 1 CHEMICAL PRODUCT AND IDENTIFICATION

United States Gypsum Company
550 West Adams Street
Chicago, Illinois 60661-3637
A Subsidiary of USG Corporation

Product Safety: 1 (800) 507-8899
www.usg.com
Version Date: January 1, 2011
Version: 7

PRODUCT(S) SHEETROCK® Gypsum Panels FIRECODE® CORE, Type X

**CHEMICAL FAMILY /
GENERAL CATEGORY** Wallboard, Type X

SYNONYMS Gypsum Panels, Drywall

SECTION 2 HAZARD IDENTIFICATION

EMERGENCY OVERVIEW:**ΔWARNING!**

This product is not expected to produce any unusual hazards during normal use. Exposure to high dust levels may irritate the skin, eyes, nose, throat, or upper respiratory tract. This product does not present an inhalation, ingestion, or contact health hazard unless subjected to operations such as sawing, sanding or machining which result in the generation of airborne particulate. This product contains quartz (crystalline silica) as a naturally occurring contaminant.

POTENTIAL HEALTH EFFECTS (See Section 11 for more information)**ACUTE :**

Inhalation	Exposure to dust generated during the handling or use of the product may cause temporary irritation to eyes, skin, nose, throat, and upper respiratory tract. Persons subjected to large amounts of this dust will be forced to leave area because of nuisance conditions such as coughing, sneezing and nasal irritation. Labored breathing may occur after excessive inhalation. If respiratory symptoms persist, consult physician.
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Eyes	Dust can cause temporary mechanical irritation of eyes. If burning, redness, itching, pain or other symptoms persist or develop, consult physician.
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Skin	None known.
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Ingestion	None known.
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CHRONIC:

Inhalation	<p>The concentration of respirable crystalline silica measured in bulk samples of USG gypsum was less than 0.1 Wt.%. Industrial hygiene testing, following the NIOSH Method 7500, did not detect respirable crystalline silica in dust created during the cutting of USG gypsum wallboard panels by both the recommended score and snap technique and with the use of a power saw in a 10ft by 10ft room.</p> <p>Panels do not release respirable dust in their installed state and therefore do not present any known health hazards when installed and properly maintained. Exposures to respirable crystalline silica are not expected during the normal use of this product; however, actual levels must be determined by workplace hygiene testing. Prolonged and repeated exposure to airborne free respirable crystalline silica can result in lung disease (i.e., silicosis) and/or lung cancer. The development of silicosis may increase the risks of additional health effects. The risk of developing silicosis is dependent upon the exposure intensity and duration.</p>
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MATERIAL SAFETY DATA SHEET

MSDS #54-010-006

SHEETROCK® Gypsum Panels FIRECODE® CORE, Type X

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Eyes	None known.
Skin	None known.
Ingestion	None known.

TARGET ORGANS: Eyes, skin and respiratory system.**PRIMARY ROUTES OF ENTRY:** Inhalation, eyes and skin contact.

CARCINOGENICITY CLASSIFICATION OF INGREDIENT(S) All substances listed are associated with the nature of the raw materials used in the manufacture of this product and are not independent components of the product formulation. All substances, if present, are at levels well below regulatory limits. See Section 11: Toxicology Information for detailed information.

MATERIAL	IARC	NTP	ACGIH	CAL- 65
FibrousGlass/Continuous Filament	3	2	A4	Not Listed
Crystalline silica	1	1	A2	Listed
Vinyl Acetate Monomer	2B	Not Listed	A3	Not Listed
Acetaldehyde	2B	2	A3	Listed
Formaldehyde	1	2	A2	Listed

IARC - International Agency for Research on Cancer: 1- Carcinogenic to humans; 2A – Probably carcinogenic to humans; 2B – Possibly carcinogenic to humans; 3 - Not classifiable as a carcinogen; 4 – Probably not a carcinogen

NTP – National Toxicology Program (Health and Human Services Dept., Public Health Service, NIH/NIEHS): 1- Known to be carcinogen; 2- Anticipated to be carcinogens

ACGIH – American Conference of Governmental Industrial Hygienists: A1 – Confirmed human carcinogen; A2 – Suspected human carcinogen; A3 – Animal carcinogen; A4 - Not classifiable as a carcinogen; A5 – Not suspected as a human carcinogen

CAL-65 – California Proposition 65 “Chemicals known to the State of California to Cause Cancer”

Respirable crystalline silica: IARC: Group 1 carcinogen, NTP: Known human carcinogen. The weight percent of crystalline silica given represents total quartz and not the respirable fraction. The weight percent of respirable silica has not been measured in this product.

POTENTIAL ENVIRONMENTAL EFFECTS: Toxicity studies of gypsum performed with fish, aquatic invertebrates and aquatic plants showed no toxic effect. (See Section 12 for more information.)

SECTION 3 COMPOSITION, INFORMATION ON INGREDIENTS

MATERIAL	WT%	CAS #
Gypsum or Calcium Sulfate Dihydrate (CaSO4•2H2O)	>85	13397-24-5/10101-41-4
Cellulose	<10	9004-34-6
Starch	<3	9005-25-8
Fibrous Glass (Continuous Filament)	<1	65997-17-3#
Crystalline Silica	<5	14808-60-7^
May be available with foil-backing:		[]
Aluminum Foil (as Aluminum and Cmpds)	<3	7429-90-5
Ethylene Vinyl Acetate Polymer	<2	24937-78-8

All ingredients of this product are included in the U.S. Environmental Protection Agency's Toxic Substances Control Act Chemical Substance Inventory and the Canadian Domestic Substances List (DSL).

#As manufactured, continuous filament glass fibers are not respirable. Continuous filaments that are chopped, crushed, or severely mechanically processed during manufacture or use may contain very small amounts of respirable



particulates. ^The weight percent for silica represents total quartz and not the respirable fraction.

**SECTION 4
FIRST AID MEASURES**

FIRST AID PROCEDURES

Inhalation	Remove to fresh air. Leave the area of exposure and remain away until coughing and other symptoms subside. Other measures are usually not necessary, however if conditions warrant, contact physician.
Eyes	In case of contact, do not rub or scratch your eyes. To prevent mechanical irritation, flush thoroughly with water for 15 minutes. If irritation persists, consult physician.
Skin	Wash with mild soap and water. If irritation persists, consult physician.
Ingestion	This product is not intended to be ingested or eaten. If gastric disturbance occurs, call physician.

MEDICAL CONDITIONS WHICH MAY BE AGGRAVATED: Pre-existing upper respiratory and lung diseases such as, but not limited to, bronchitis, emphysema and asthma. Pre-existing skin diseases such as, but not limited to, rashes and dermatitis.

NOTES TO PHYSICIAN: Treatment should be directed at the control of symptoms and the clinical condition.

**SECTION 5
FIRE FIGHTING MEASURES**

General Fire Hazards	None known		
Extinguishing Media	Water or use extinguishing media appropriate for surrounding fire.		
Special Fire Fighting Procedures	Wear appropriate personal protective equipment. See section 8.		
Unusual Fire/ Explosion Hazards	None known		
Hazardous Combustion Products	None known		
Flash Point	Not Determined	Auto Ignition	Not Applicable
Method Used	Not Applicable	Flammability Classification	Not Applicable
Upper Flammable Limit (UFL)	Not Determined		
Lower Flammable Limit (LFL)	Not Determined	Rate of Burning	Not Applicable

**SECTION 6
ACCIDENTAL RELEASE MEASURES**

CONTAINMENT: Collect panels from spillage and if not damaged or contaminated by foreign material, panels may be reclaimed.

CLEAN-UP: Use normal clean up procedures. No special precautions.

DISPOSAL: Follow all local, state, provincial and federal regulations. Never discharge large releases directly into sewers or surface waters.



SECTION 7 HANDLING AND STORAGE

HANDLING: Avoid dust contact with eyes and skin. Wear the appropriate eye and skin protection against dust (See Section 8). Minimize dust generation and accumulation. Avoid breathing dust. Wear the appropriate respiratory protection against dust in poorly ventilated areas and if TLV is exceeded (see Sections 2 and 8). Use good safety and industrial hygiene practices. When moving board with a forklift or similar equipment, it is essential that the equipment be rated capable of handling the loads. The forks should always be long enough to extend completely through the width of the load. Fork spacing between supports should be one half the length of the panels or base being handled so that a maximum of 4' extends beyond the supports on either end.

Follow traditional building practices; such as management of water away from the interior of the structure to avoid the growth of mold, mildew and fungus. Remove any building products suspected of being exposed to sustained moisture and considered conducive to mold growth from the jobsite.

Gypsum panels are very heavy awkward loads posing the risk of severe back injury. Use proper lifting techniques.

STORAGE: Store in a cool, dry, ventilated area away from sources of heat, moisture and incompatibilities (see Section 10). Protect product from physical damage.

Protect from weather and prevent exposure to sustained moisture.

Gypsum Association literature recommends storing board flat to avoid damaging edges, warping the board and the potential safety hazards of the board falling over. However, in other situations, storing the board flat may cause a tripping hazard or exceed floor limit loads. If stacking board vertically, leave at least 4 inches from the wall to decrease the risk of falling board and no more than 6 inches to avoid too much lateral weight against the wall.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

MATERIAL	WT%	TLV (mg/m ³)	PEL(mg/m ³)
Gypsum or Calcium Sulfate Dihydrate (CaSO ₄ •2H ₂ O)	>85	10	15 (T) / 5 (R)
Cellulose	<10	10	15 (T) / 5 (R)
Starch	<3	10	15 (T) / 5 (R)
Fibrous Glass (Continuous Filament)	<1	1 f/cc (R) *	15 (T) / 5 (R)
Crystalline Silica	<5	0.025 (R)	0.1 (R)
May be available with foil-backing:		[]
Aluminum Foil (as Aluminum and Cmpds)	<3	10	15 (T) / 5 (R)
Ethylene Vinyl Acetate Polymer	<2	(NE)	(NE)

(T)-Total; (R)-Respirable; (NE)-Not Established; (C)-Ceiling; (STEL)-Short-term exposure limit

(F)-Fume; (Du)-Dust; (M)-Mist

ppm-part per million; f/cc-fiber per cubic centimeter; mppcf- million particles per cubic foot

*ACGIH: 1 fiber/cubic centimeter air for fibers longer than 5 micrometers and thinner than 3 micrometers. Continuous filaments that are chopped, crushed, or severely mechanically processed during manufacture or use may contain very small amounts of respirable particulates [PEL = 5 mg/m³(R)].

ENGINEERING CONTROLS: Provide ventilation sufficient to control airborne dust levels. If user operations generate airborne dust, use ventilation to keep dust concentrations below permissible exposure limits. Where general ventilation is inadequate, use process enclosures, local exhaust ventilation, or other engineering controls to control dust levels below permissible exposure limits.



RESPIRATORY PROTECTION: Wear a NIOSH/MSHA-approved respirator equipped with particulate cartridges when dusty in poorly ventilated areas, and if TLV is exceeded. A respiratory program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. If engineering controls are not possible, wear a properly fitted NIOSH/MSHA-approved particulate respirator.

OTHER PERSONAL PROTECTIVE EQUIPMENT:

Eye/Face	Wear eye protection, safety glasses or goggles, to avoid possible eye contact.
Skin	Wear gloves and protective clothing to prevent repeated or prolonged skin contact.
General	Selection of Personal Protective Equipment will depend on environmental working conditions and operations.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Paper with gray to off white core	Vapor Density (Air = 1)	Not Applicable
Odor	Low to no odor	Specific Gravity (H ₂ O = 1)	2.32 – 2.96
Odor Threshold	Not Determined	Solubility in water (g/100g)	0.26/100g
Physical State	Solid	Partition Coefficient	Not Applicable
pH @ 25 ° C	~ 7	Auto-ignition Temp	Not Determined
Melting Point	Not Applicable	Decomposition Temp	2650°F/1450°C
Freezing Point	Not Applicable	Viscosity	Not Applicable
Boiling Point	Not Applicable	Particle Size	Varies
Flash Point	Not Determined	Bulk Density	~ 55 lb/ft ³
Evaporation Rate (BuAc = 1)	Not Applicable	Molecular Weight	~ 172
Upper Flammable Limit (UFL)	Not Determined	VOC Content	Zero g/L
Lower Flammable Limit (LFL)	Not Determined	Percent Volatile	Zero
Vapor Pressure (mm Hg)	Not Applicable		

SECTION 10 CHEMICAL STABILITY AND REACTIVITY

STABILITY	Stable.
CONDITIONS TO AVOID	Contact with incompatibles (see below).
INCOMPATIBILITY	None known.
HAZARDOUS POLYMERIZATION	None known.
HAZARDOUS DECOMPOSITION	None known.

**SECTION 11
TOXICOLOGICAL INFORMATION**

ACUTE EFFECTS: The acute oral toxicity study [OECD TG 420] of calcium sulfate dihydrate showed that this chemical did not cause any changes even at 2,000 mg/kg b.w. Therefore, the oral LD50 value was more than 2,000-mg/kg b.w. for female rats. Gypsum paste applied experimentally to the eyes of rabbits was not an irritant. Gypsum dust particulate has shown an irritant action on mucous membranes of the respiratory tract and eyes. The sulfate ion has caused gastro-intestinal disturbance in humans following large oral doses. Limited studies involving the repeated inhalation of an (unspecified) calcium sulfate failed to identify any particular target organs in monkeys, rats and hamsters. No evidence of mutagenicity was found in Ames bacterial tests.

CHRONIC EFFECTS / CARCINOGENICITY: Panels do not release respirable dust in their installed state and therefore do not present any known health hazards when installed and properly maintained.

Crystalline Silica: Exposures to respirable crystalline silica are not expected during the normal use of this product; however, actual levels must be determined by workplace hygiene testing. The weight percent of respirable crystalline silica may not have been measured in this product. Prolonged and repeated exposure to airborne free respirable crystalline silica can result in lung disease (i.e., silicosis) and/or lung cancer. The development of silicosis may increase the risks of additional health effects. Smoking in combination with silica exposures increases the risk of cancer. The risk of developing silicosis is dependent upon the exposure intensity and duration.

In June, 1997, IARC classified crystalline silica (quartz and cristobalite) as a human carcinogen. In making the overall evaluation, the IARC Working Group noted that carcinogenicity in humans was not detected in all industrial circumstances studied. Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs.

IARC states that crystalline silica inhaled in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (Group 1).

**SECTION 12
ECOLOGICAL INFORMATION**

ENVIRONMENTAL TOXICITY: This product has no known adverse effect on ecology. Toxicity studies of gypsum performed with fish, aquatic invertebrates and aquatic plants showed no toxic effect.

Ecotoxicity value	Not determined.
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**SECTION 13
DISPOSAL CONSIDERATIONS**

WASTE DISPOSAL METHOD: Dispose of material in accordance with federal, state, and local regulations. Never discharge directly into sewers or surface waters. Consult with environmental regulatory agencies for guidance on acceptable disposal practices.

**SECTION 14
TRANSPORT INFORMATION**

U.S. DOT INFORMATION: Not a hazardous material per DOT shipping requirements. Not classified or regulated.



MATERIAL SAFETY DATA SHEET

SHEETROCK® Gypsum Panels FIRECODE® CORE, Type X

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Shipping Name	Same as product name.
Hazard Class	Not classified.
UN/NA #	None. Not classified.
Packing Group	None.
Label (s) Required	Not applicable.
GGVSec/MDG-Code	Not classified.
ICAO/IATA-DGR	Not applicable.
RID/ADR	None.
ADNR	None.

SECTION 15 REGULATORY INFORMATION

UNITED STATES REGULATIONS

All ingredients of this product are included in the U.S. Environmental Protection Agency's Toxic Substances Control Act Chemical Substance Inventory.

MATERIAL	WT%	3 0 2	3 0 4	3 1 3	CERCLA	CAA Sec. 112	RCRA Code
Gypsum or Calcium Sulfate Dihydrate (CaSO4•2H2O)	>85	NL	NL	NL	NL	NL	NL
Cellulose	<10	NL	NL	NL	NL	NL	NL
Starch	<3	NL	NL	NL	NL	NL	NL
Fibrous Glass (Continuous Filament)	<1	NL	NL	NL	NL	NL	NL
Crystalline Silica	<5	NL	NL	NL	NL	NL	NL
May be available with foil-backing:		[]
Aluminum Foil (as Aluminum and Cmpds)	<3	NL	NL	X	NL	NL	NL
Ethylene Vinyl Acetate Polymer	<2	NL	NL	NL	NL	NL	NL

Key : NL = Not Listed

SARA Title III Section 302 (EPCRA) Extremely Hazardous Substances: Threshold Planning Quantity (TPQ)

SARA Title III Section 304 (EPCRA) Extremely Hazardous Substances: Reportable Quantity (RQ)

SARA Title III Section 313 (EPCRA) Toxic Chemicals: X= Subject to reporting under section 313

CERCLA Hazardous Substances: Reportable Quantity (RQ)

CAA Section 112 (r) Regulated Chemicals for Accidental Release Prevention: Threshold Quantities(TQ)

RCRA Hazardous Waste: RCRA hazardous waste code

CANADIAN REGULATIONS

This product has been classified in accordance with the hazard criteria of Controlled Product regulations and the MSDS contains all the information required by the Controlled Products Regulations. All ingredients of this product are included in the Canadian Domestic Substances List (DSL).

MATERIAL	WT%	IDL Item #	WHMIS Classification
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MATERIAL SAFETY DATA SHEET

SHEETROCK® Gypsum Panels FIRECODE® CORE, Type X

MSDS #54-010-006

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Gypsum or Calcium Sulfate Dihydrate (CaSO4•2H2O)	>85	Not Listed	Not Listed
Cellulose	<10	Not Listed	Not Listed
Starch	<3	Not Listed	Not Listed
Fibrous Glass (Continuous Filament)	<1	Not Listed	Not Listed
Crystalline Silica	<5	1406	D2A
May be available with foil-backing:		[]
Aluminum Foil (as Aluminum and Cmpds)	<3	47	Not Listed
Ethylene Vinyl Acetate Polymer	<2	Not Listed	Not Listed

IDL Item#: Canadian Hazardous Products Act – Ingredient Disclosure List Item #

WHMIS Classification: Workplace Hazardous Material Information System

Risk and Safety Phrases defined by European Union Directive 67/548/EEC (Annex III and IV)

R-Phrase(s): R36/37/38

S-Phrase(s): S51 S38 S39

**SECTION 16
OTHER INFORMATION****Label Information****Δ WARNING!**

Dust can cause irritation to eyes, skin and respiratory tract. Wear eye, skin and respiratory protection as necessary per working conditions. If eye contact occurs flush with water for 15 minutes. Do not ingest. If ingested, call physician. If cutting board with a power tool, use a wet or vacuum saw to reduce the amount of dust generated. Panels are heavy and can fall over, causing serious injury or death. Avoid creating a tripping hazard and do not exceed floor limit loads. Product safety information: 800-507-8899 or usg.com. Customer Service: 800 USG-4-YOU (800 874-4968). KEEP OUT OF REACH OF CHILDREN.

INFORMATION FOR HANDLING AND IDENTIFICATION OF CHEMICAL HAZARDS

NFPA Ratings:			HMIS Ratings:		HEALTH * 1	0 = Minimal Hazard
Health:	1		Health:	1	FLAMMABILITY 0	1 = Slight Hazard
Fire:	0		Fire:	0	PHYSICAL HAZARD 0	2 = Moderate Hazard
Reactivity:	0		Reactivity:	0	PERSONAL PROTECTION E	3 = Serious Hazard
						4 = Severe Hazard

E – Safety glasses, gloves and dust respirator; * - Contains silica

Key/Legend

ANSI	American National Standards Institute
ACGIH	American Conference of Governmental Industrial Hygienists
CAA	Clean Air Act
CAS	Chemical Abstracts Service (Registry Number)
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act of 1980
CFR	Code of Federal Regulations
DOT	United States Department of Transportation
DSL	Canadian Domestic Substances List



MATERIAL SAFETY DATA SHEET

SHEETROCK® Gypsum Panels FIRECODE® CORE, Type X

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EPA	United States Environmental Protection Agency
EPCRA	Emergency Planning & Community Right-to-know Act
HMIS	Hazardous Materials Identification System
IARC	International Agency for Research on Cancer
MSHA	Mine Safety and Health Administration
NDSL	Canadian Non-Domestic Substances List
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety and Health
OSHA	Occupational Health and Safety Administration
PEL	Permissible Exposure Limit
PPE	Personal Protection Equipment
RCRA	Resource Conservation and Recovery Act
SARA	Superfund Amendments and Reauthorization Act of 1986
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act
UN/NA#	United Nations/North America number
WHMIS	Workplace Hazardous Material Information System

Prepared by:
Product Safety
USG Corporation
550 West Adams Street
Chicago, IL 60661-3637

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for his/her own particular use.

END



SECTION 1
CHEMICAL PRODUCT AND IDENTIFICATION

United States Gypsum Company
550 West Adams Street
Chicago, Illinois 60661-3637
A Subsidiary of USG Corporation

Product Safety: 1 (800) 507-8899
www.usg.com
Version Date: January 1, 2011
Version: 6

PRODUCT(S) SHEETROCK® Wallcovering Primer

CHEMICAL FAMILY / GENERAL CATEGORY Primer

SYNONYMS Primer, Coating

SECTION 2
HAZARD IDENTIFICATION

EMERGENCY OVERVIEW:

ΔWARNING!

This product is not expected to produce any unusual hazards during normal use. Exposure to high dust, mist or vapor levels may irritate the skin, eyes, nose, throat, or upper respiratory tract. Exposure to high vapor levels of ethylene glycol may cause slight headache, dizziness, nausea, drowsiness, and/or stupor.

POTENTIAL HEALTH EFFECTS (See Section 11 for more information)

ACUTE :

Inhalation	Exposure to dust, mist or vapors generated during the handling, spray application or use of the product may cause temporary irritation to eyes, skin, nose, throat, and upper respiratory tract. Persons subjected to large amounts of this dust, mist or vapor will be forced to leave area because of nuisance conditions such as coughing, sneezing and nasal irritation. Labored breathing may occur after excessive inhalation. If respiratory symptoms persist, consult physician. Breathing of ethylene glycol vapors can cause slight headache, dizziness, nausea, drowsiness, and/or stupor. Exposure to high vapor levels may irritate the nose, throat, or upper respiratory tract. Labored breathing may occur after excessive inhalation. If respiratory symptoms persist, consult physician.
Eyes	Dust/mist/vapors can cause temporary mechanical irritation of eyes. If burning, redness, itching, pain or other symptoms persist or develop, consult physician. Ethylene glycol vapors may cause slight temporary eye irritation.
Skin	None known.
Ingestion	None known.

CHRONIC:

Inhalation	Animal studies indicate that prolonged and repeated overexposure to ethylene glycol may cause kidney and/or liver damage and birth defects. Overexposure is highly unlikely at concentrations present in this product. Exposures to respirable crystalline silica are not expected during the normal use of this product; however, actual levels must be determined by workplace hygiene testing. Prolonged and repeated exposure to airborne free respirable crystalline silica can result in lung disease (i.e., silicosis) and/or lung cancer. The development of silicosis may increase the risks of additional health effects. The risk of developing silicosis is dependent upon the exposure intensity and duration.
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MATERIAL SAFETY DATA SHEET

SHEETROCK® Wallcovering Primer

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Eyes	None known.
Skin	None known.
Ingestion	None known.

TARGET ORGANS: Eyes, skin and respiratory system.

PRIMARY ROUTES OF ENTRY: Inhalation, eyes and skin contact.

CARCINOGENICITY CLASSIFICATION OF INGREDIENT(S) All substances listed are associated with the nature of the raw materials used in the manufacture of this product and are not independent components of the product formulation. All substances, if present, are at levels well below regulatory limits. See Section 11: Toxicology Information for detailed information.

MATERIAL	IARC	NTP	ACGIH	CAL- 65
Vinyl Acetate Monomer	2B	Not Listed	A3	Not Listed
Acetaldehyde	2B	2	A3	Listed
Formaldehyde	1	2	A2	Listed
Titanium Dioxide	2B	Not Listed	A4	Not Listed
1,4 Dioxane	2B	2	A3	Listed
Acetaldehyde	2B	2	A3	Listed
Crystalline silica	1	1	A2	Listed

IARC - International Agency for Research on Cancer: 1- Carcinogenic to humans; 2A – Probably carcinogenic to humans; 2B – Possibly carcinogenic to humans; 3 - Not classifiable as a carcinogen; 4 – Probably not a carcinogen

NTP – National Toxicology Program (Health and Human Services Dept., Public Health Service, NIH/NIEHS): 1- Known to be carcinogen; 2- Anticipated to be carcinogens

ACGIH – American Conference of Governmental Industrial Hygienists: A1 – Confirmed human carcinogen; A2 – Suspected human carcinogen; A3 – Animal carcinogen; A4 - Not classifiable as a carcinogen; A5 – Not suspected as a human carcinogen

CAL-65 – California Proposition 65 “Chemicals known to the State of California to Cause Cancer”

Respirable crystalline silica: IARC: Group 1 carcinogen, NTP: Known human carcinogen. The weight percent of crystalline silica given represents total quartz and not the respirable fraction. The weight percent of respirable silica has not been measured in this product.

Food and Drug Administration [CFR Title 21, v.3, sec 184.1409] – Ground limestone is Generally Recognized as Safe (GRAS).

POTENTIAL ENVIRONMENTAL EFFECTS: This product has no known adverse effect on ecology. (See Section 12 for more information)

SECTION 3 COMPOSITION, INFORMATION ON INGREDIENTS

MATERIAL	WT%	CAS #
Water	>30	7732-18-5
Vinyl Acetate Butyl Acrylate Polymer	<20	25067-01-0
Kaolin	<25	1332-58-7
Titanium Dioxide	<15	13463-67-7
Limestone	<10	1317-65-3
Ethylene Glycol	1-3	107-21-1
Petroleum Distillates	0-1	64741-88-4
Crystalline Silica	<5	14808-60-7^

All ingredients of this product are included in the U.S. Environmental Protection Agency's Toxic Substances Control Act Chemical Substance Inventory and the Canadian Domestic Substances List (DSL).



^The weight percent for silica represents total quartz and not the respirable fraction.

SECTION 4
FIRST AID MEASURES

FIRST AID PROCEDURES

Inhalation	Remove to fresh air. Leave the area of exposure and remain away until coughing and other symptoms subside. Other measures are usually not necessary, however if conditions warrant, contact physician.
Eyes	In case of contact, do not rub or scratch your eyes. If eye contact occurs, flush immediately with water for 30 minutes.
Skin	Wash with mild soap and water. If irritation persists, consult physician.
Ingestion	This product is not intended to be ingested or eaten. If gastric disturbance occurs, call physician.

MEDICAL CONDITIONS WHICH MAY BE AGGRAVATED: Pre-existing upper respiratory and lung diseases such as, but not limited to, bronchitis, emphysema and asthma. Pre-existing skin diseases such as, but not limited to, rashes and dermatitis.

NOTES TO PHYSICIAN: Treatment should be directed at the control of symptoms and the clinical condition.

SECTION 5
FIRE FIGHTING MEASURES

General Fire Hazards	None known		
Extinguishing Media	Water or use extinguishing media appropriate for surrounding fire.		
Special Fire Fighting Procedures	Wear appropriate personal protective equipment. See section 8.		
Unusual Fire/ Explosion Hazards	None known		
Hazardous Combustion Products	Above 800° C – limestone may decompose to calcium oxide (CaO) and carbon dioxide (CO ₂).		
Flash Point	Not Determined	Auto Ignition	Not Applicable
Method Used	Not Applicable	Flammability Classification	Not Applicable
Upper Flammable Limit (UFL)	Not Determined	Rate of Burning	Not Applicable
Lower Flammable Limit (LFL)	Not Determined		

SECTION 6
ACCIDENTAL RELEASE MEASURES

CONTAINMENT: No special precautions. Wear appropriate personal protective equipment. See section 8.

CLEAN-UP: Use normal clean up procedures. No special precautions.

DISPOSAL: Follow all local, state, provincial and federal regulations. Never discharge large releases directly into sewers or surface waters.



**SECTION 7
 HANDLING AND STORAGE**

HANDLING: Avoid dust/mist/vapor contact with eyes. Wear the appropriate eye and skin protection against dust/mist/vapor (See Section 8). Minimize dust/mist/vapor generation and accumulation. Avoid breathing dust/mist/vapors. Wear the appropriate respiratory protection against dust/mist/vapor in poorly ventilated areas and if TLV is exceeded (see Sections 2 and 8). Use good safety and industrial hygiene practices. Avoid breathing vapors.

STORAGE: Store in a cool, dry, ventilated area away from sources of heat, moisture and incompatibilities (see Section 10). Do not use if material has spoiled, i.e., there is a moldy appearance or an unpleasant odor. Close container and discard properly. Keep tightly sealed following use.

**SECTION 8
 EXPOSURE CONTROLS/PERSONAL PROTECTION**

MATERIAL	WT%	TLV (mg/m ³)	PEL (mg/m ³)
Water	>30	(NE)	(NE)
Vinyl Acetate Butyl Acrylate Polymer	<20	(NE)	(NE)
Kaolin	<25	2 (R)	15 (T) / 5 (R)
Titanium Dioxide	<15	10	15
Limestone	<10	10	15 (T) / 5 (R)
Ethylene Glycol	1-3	100 ceiling	(NE)
Petroleum Distillates	0-1	5 (M)	5 (M)
Crystalline Silica	<5	0.025 (R)	0.1 (R)

(T)–Total; (R)–Respirable; (NE)-Not Established; (C)-Ceiling; (STEL)-Short-term exposure limit
 (F)-Fume; (Du)-Dust; (M)-Mist
 ppm-part per million; f/cc-fiber per cubic centimeter; mppcf- million particles per cubic foot

ENGINEERING CONTROLS: Provide ventilation sufficient to control airborne dust/mist/vapor levels. If user operations generate airborne dust/mist/vapor, use ventilation to keep dust concentrations below permissible exposure limits. Where general ventilation is inadequate, use process enclosures, local exhaust ventilation, or other engineering controls to control dust/mist/vapor levels below permissible exposure limits. Provide ventilation sufficient to control vapor exposures. Where general ventilation is inadequate, use process enclosures, local exhaust ventilation, or other engineering controls to control vapor levels. If engineering controls are not possible, wear a properly fitted NIOSH/MSHA-approved vapor respirator. Wear a NIOSH/MSHA-approved respirator equipped with vapor cartridges when in poorly ventilated areas, and if TLV is exceeded. A respiratory program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

RESPIRATORY PROTECTION: Wear a NIOSH/MSHA-approved respirator equipped with particulate cartridges when dusty or misty in poorly ventilated areas, and if TLV is exceeded. A respiratory program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. If engineering controls are not possible, wear a properly fitted NIOSH/MSHA-approved particulate respirator.

OTHER PERSONAL PROTECTIVE EQUIPMENT:

Eye/Face	Wear eye protection, safety glasses or goggles, to avoid possible eye contact.
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SHEETROCK® Wallcovering Primer

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Skin	Wear gloves and protective clothing to prevent repeated or prolonged skin contact.
General	Selection of Personal Protective Equipment will depend on environmental working conditions and operations.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Gray to off white	Vapor Density (Air = 1)	< 1 (same as water)
Odor	Low to no odor	Specific Gravity (H ₂ O = 1)	1.3-1.4
Odor Threshold	Not Determined	Solubility in water (g/100g)	Slight, unlimited dispersibility
Physical State	Paste	Partition Coefficient	Not Determined
pH @ 25 °C	~7-8.5	Auto-ignition Temp	Not Determined
Melting Point	Not Applicable	Decomposition Temp	Not Determined
Freezing Point	32°F/ 0°C	Viscosity	450-700 Brabender Units at 20 °C
Boiling Point	212°F/ 100°C	Particle Size	99% Finer than 250 microns
Flash Point	Not Determined	Bulk Density	1.3-1.4 Kg/L
Evaporation Rate (BuAc = 1)	Not Determined	Molecular Weight	Mixture
Upper Flammable Limit (UFL)	Not Determined	VOC Content	<2 g/L
Lower Flammable Limit (LFL)	Not Determined	Percent Volatile	48-50%
Vapor Pressure (mm Hg)	~24 mmHg@ 25°C		

SECTION 10 CHEMICAL STABILITY AND REACTIVITY

STABILITY	Stable.
CONDITIONS TO AVOID	High temperatures cause decomposition (see below). DNPH, commonly used to determine formaldehyde concentrations, will react with this product resulting in formaldehyde formation. Thus formaldehyde may be reported as higher than actual and in error. Contact with incompatibles (see below).
INCOMPATIBILITY	None known.
HAZARDOUS POLYMERIZATION	None known.
HAZARDOUS DECOMPOSITION	Above 800° C – limestone may decompose to calcium oxide (CaO) and carbon dioxide (CO ₂). Thermal decomposition may yield carbon dioxide and carbon monoxide.

SECTION 11 TOXICOLOGICAL INFORMATION



ACUTE EFFECTS: Ethylene glycol: LD50 (oral, rat) > 6.14 g/kg; LD50 (oral, mouse) > 14.6 g/kg

CHRONIC EFFECTS / CARCINOGENICITY:

Ethylene Glycol: Animal studies indicate that prolonged and repeated overexposure to ethylene glycol may cause kidney and/or liver damage and birth defects. Overexposure is highly unlikely at concentrations present in this product. Trace amounts of 1,4 dioxane, acetaldehyde and ethylene glycol monomethyl ether may be associated with the production of ethylene glycol. Any exposure to these substances is expected to remain well below OSHA regulatory and ACGIH recommended limits during normal handling and use of this product.

Industrial hygiene measurement for exposures to formaldehyde cannot use 2,4-dinitrophenylhydrazine (DNPH) in sample collection or during analysis due to reaction with an ingredient in this product that will produce formaldehyde. Sample results will show higher concentrations of formaldehyde than actually exist employing DNPH anywhere in the analytical method. Previous standard IH sampling measurement using DNPH have shown formaldehyde exposure concentrations well below 8 hour time weighted average occupational exposure standards including the DNPH error.

Crystalline Silica: Exposures to respirable crystalline silica are not expected during the normal use of this product; however, actual levels must be determined by workplace hygiene testing. The weight percent of respirable crystalline silica may not have been measured in this product. Prolonged and repeated exposure to airborne free respirable crystalline silica can result in lung disease (i.e., silicosis) and/or lung cancer. The development of silicosis may increase the risks of additional health effects. Smoking in combination with silica exposures increases the risk of cancer. The risk of developing silicosis is dependent upon the exposure intensity and duration.

In June, 1997, IARC classified crystalline silica (quartz and cristobalite) as a human carcinogen. In making the overall evaluation, the IARC Working Group noted that carcinogenicity in humans was not detected in all industrial circumstances studied. Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs.

IARC states that crystalline silica inhaled in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (Group 1).

**SECTION 12
 ECOLOGICAL INFORMATION**

ENVIRONMENTAL TOXICITY: This product has no known adverse effect on ecology.

Ecotoxicity value	Not determined.
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**SECTION 13
 DISPOSAL CONSIDERATIONS**

WASTE DISPOSAL METHOD: Dispose of material in accordance with federal, state, and local regulations. Never discharge directly into sewers or surface waters. Consult with environmental regulatory agencies for guidance on acceptable disposal practices.

**SECTION 14
 TRANSPORT INFORMATION**

U.S. DOT INFORMATION: Not a hazardous material per DOT shipping requirements. Not classified or regulated.



MATERIAL SAFETY DATA SHEET

SHEETROCK® Wallcovering Primer

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Shipping Name	Same as product name.
Hazard Class	Not classified.
UN/NA #	None. Not classified.
Packing Group	None.
Label (s) Required	Not applicable.
GGVSec/MDG-Code	Not classified.
ICAO/IATA-DGR	Not applicable.
RID/ADR	None.
ADNR	None.

SECTION 15 REGULATORY INFORMATION

UNITED STATES REGULATIONS

All ingredients of this product are included in the U.S. Environmental Protection Agency's Toxic Substances Control Act Chemical Substance Inventory.

MATERIAL	WT%	3 0 2	3 0 4	3 1 3	CERCLA	CAA Sec. 112	RCRA Code
Water	>30	NL	NL	NL	NL	NL	NL
Vinyl Acetate Butyl Acrylate Polymer	<20	NL	NL	NL	NL	NL	NL
Kaolin	<25	NL	NL	NL	NL	NL	NL
Titanium Dioxide	<15	NL	NL	NL	NL	NL	NL
Limestone	<10	NL	NL	NL	NL	NL	NL
Ethylene Glycol	1-3	NL	NL	X	5,000	NL	NL
Petroleum Distillates	0-1	NL	NL	NL	NL	NL	NL
Crystalline Silica	<5	NL	NL	NL	NL	NL	NL

Key: NL = Not Listed

SARA Title III Section 302 (EPCRA) Extremely Hazardous Substances: Threshold Planning Quantity (TPQ)

SARA Title III Section 304 (EPCRA) Extremely Hazardous Substances: Reportable Quantity (RQ)

SARA Title III Section 313 (EPCRA) Toxic Chemicals: X= Subject to reporting under section 313

CERCLA Hazardous Substances: Reportable Quantity (RQ)

CAA Section 112 (r) Regulated Chemicals for Accidental Release Prevention: Threshold Quantities(TQ)

RCRA Hazardous Waste: RCRA hazardous waste code

CANADIAN REGULATIONS

This product has been classified in accordance with the hazard criteria of Controlled Product regulations and the MSDS contains all the information required by the Controlled Products Regulations. All ingredients of this product are included in the Canadian Domestic Substances List (DSL).

MATERIAL	WT%	IDL Item #	WHMIS Classification
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Water	>30	Not Listed	Not Listed
Vinyl Acetate Butyl Acrylate Polymer	<20	Not Listed	Not Listed
Kaolin	<25	Not Listed	D2A
Titanium Dioxide	<15	Not Listed	Not Listed
Limestone	<10	Not Listed	D2A
Ethylene Glycol	1-3	716	D2A
Petroleum Distillates	0-1	Not Listed	Not Listed
Crystalline Silica	<5	1406	D2A

IDL Item#: Canadian Hazardous Products Act – Ingredient Disclosure List Item #

WHMIS Classification: Workplace Hazardous Material Information System

Risk and Safety Phrases defined by European Union Directive 67/548/EEC (Annex III and IV)

R-Phrase(s): R36/37/38

S-Phrase(s): S51

SECTION 16 OTHER INFORMATION

Label Information

Δ WARNING!

Mist, vapors and/or dust can cause irritation to eyes, skin and respiratory tract. Wear eye, skin and respiratory protection as necessary per working conditions. If eye contact occurs flush immediately with water for 30 minutes. Do not ingest. If ingested, call physician. Product safety information: 800-507-8899 or usg.com. Customer Service: 800 USG-4-YOU (800 874-4968). KEEP OUT OF REACH OF CHILDREN.

INFORMATION FOR HANDLING AND IDENTIFICATION OF CHEMICAL HAZARDS

NFPA Ratings:			HMIS Ratings:		HEALTH * 1	0 = Minimal Hazard 1 = Slight Hazard 2 = Moderate Hazard 3 = Serious Hazard 4 = Severe Hazard
Health:	1		Health:	1	FLAMMABILITY 0	
Fire:	0		Fire:	0	PHYSICAL HAZARD 0	
Reactivity:	0		Reactivity:	0	PERSONAL PROTECTION E	

E – Safety glasses, gloves and dust respirator; * - Contains silica

Key/Legend

ANSI	American National Standards Institute
ACGIH	American Conference of Governmental Industrial Hygienists
CAA	Clean Air Act
CAS	Chemical Abstracts Service (Registry Number)
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act of 1980
CFR	Code of Federal Regulations
DOT	United States Department of Transportation
DSL	Canadian Domestic Substances List
EPA	United States Environmental Protection Agency
EPCRA	Emergency Planning & Community Right-to-know Act



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HMIS	Hazardous Materials Identification System
IARC	International Agency for Research on Cancer
MSHA	Mine Safety and Health Administration
NDSL	Canadian Non-Domestic Substances List
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety and Health
OSHA	Occupational Health and Safety Administration
PEL	Permissible Exposure Limit
PPE	Personal Protection Equipment
RCRA	Resource Conservation and Recovery Act
SARA	Superfund Amendments and Reauthorization Act of 1986
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act
UN/NA#	United Nations/North America number
WHMIS	Workplace Hazardous Material Information System

Prepared by:
Product Safety
USG Corporation
550 West Adams Street
Chicago, IL 60661-3637

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for his/her own particular use.

END

SECTION 1: CHEMICAL PRODUCT and COMPANY IDENTIFICATION

(N/A)

Product Name: **Strait-Line Marking Chalk (Fluorescent Orange), Strait-Line Marking Chalk (Lime)**

Manufacturer Name: American Tool Companies, Inc.

Address: 92 Grant Street
Wilmington, Ohio 45177

General Use: Refill for self-chalking chalk line reels.

Product Description: Powdered Chalk.

Department: Wilmington Division

Revision Date: 12/24/02
Supersedes: 12/20/99

Trade Names: Strait-Line Marking Chalk (R) (Fluorescent Orange)
Strait-Line Marking Chalk (R) (Lime)

Technical Contact: Jeff Curry
(937) 382-3811 (8:00-5:00 Eastern Time)

Hazardous Material Identification System (HMIS):
*chronic effects

HMIS

HEALTH	1
FIRE	0
REACTIVITY	0
PPE	

SECTION 2 : COMPOSITION, INFORMATION ON INGREDIENTS

(N/A)

Ingredient Name	CAS#	Ingredient Percent
Calcium Carbonate	471-34-1	75 - 85 by Weight
OSHA PEL TWA:	8-Hour (mg/m3): 15 ¹ 5 ²	
ACGIH TLV TWA:	8-Hour (mg/m3): 10 ¹	
NIOSH REL:	8-Hour (mg/m3): 15 ¹ 5 ²	
EC Index Number:	1 1: Total dust. 2: Respirable dust.	
Magnesite	546-93-0	4 - 6 by Weight
OSHA PEL TWA:	8-Hour (mg/m3): 15 ¹ 5 ²	
ACGIH TLV TWA:	8-Hour (mg/m3): 10 ¹	
NIOSH REL:	8-Hour (mg/m3): 15 ¹ 5 ²	
EC Index Number:	1 1: Total dust. 2: Respirable dust.	
Silica-Crystalline Quartz ³	14808-60-7	0.01 - 3.0 by Weight
OSHA PEL TWA:	8-Hour (mg/m3): 2.0 ^{2,4}	
ACGIH TLV TWA:	8-Hour (mg/m3): 0.05 ²	
NIOSH REL:	8-Hour (mg/m3): 0.05 ²	
EC Index Number:	1	

2: Respirable dust. 3: Calcium carbonate may contain crystalline silica at levels between 0.01 and 4.0 % and varies naturally. 4: Using the OSHA quartz formula, this PEL was calculated assuming a crystalline silica content of 3.0% in this ingredient.		
Other non-hazardous material: resin	39277-28-6	Balance by Weight
OSHA PEL TWA:	8-Hour (mg/m3): Not applicable	
ACGIH TLV TWA:	8-Hour (mg/m3): Not applicable	
EC Index Number:	1	
Other non-hazardous material: Alberta Yellow	Proprietary	Balance by Weight
OSHA PEL TWA:	8-Hour (mg/m3): Not applicable	
ACGIH TLV TWA:	8-Hour (mg/m3): Not applicable	
NIOSH REL:	8-Hour (mg/m3): Not applicable	
EC Index Number:	1	
Limestone	1317-65-3	
EC Index Number:	1	

1: Total dust.
 2: Respirable dust.
 3: Calcium carbonate may contain crystalline silica at levels between 0.01 and 4.0 % and varies naturally.
 4: Using the OSHA quartz formula, this PEL was calculated assuming a crystalline silica content of 3.0% in this ingredient.
 5: Non-hazardous materials include: resin, CAS No. 39277-28-6; and Alberta Yellow CAS No. (proprietary).
 TWA = Time-weighted average.

SECTION 3 : HAZARDS IDENTIFICATION : (N/A)

Emergency Overview: Warning: Non-combustible. Mildly irritating to eyes, skin, and respiratory system. Free formaldehyde may be released under some conditions of use. Exposure to large quantities of this material may cause acute irritation of eyes and difficulty breathing.

Physical State: Solid powder.

Color: White.

Odor: A slightly pungent.

HAZARDS IDENTIFICATION :
 Hazardous Material Identification System (HIMS):
 Health: 1*
 Flammability: 0
 Reactivity: 0

*chronic effects

Applies to All Ingredients :

Potential Health Effects: Exposure to Strait-Line Marking ChalkoΩ½ is primarily through contact with dust from this material created during handling and use of the chalk. Acute health effects include minor irritation of the eyes, skin, and respiratory tract.

Eye Contact: Contact with dust or powder may cause irritation and pain, watering of eyes, and eyelid inflammation.

Skin Contact: When the product is used as intended, it is not considered to cause discomfort. Prolonged skin contact may produce moderate irritation.

Inhalation: Acute exposure to dust levels above exposure limits (Section 2) may

Ingestion:	cause irritation of the respiratory system with sneezing and coughing. Considered an unlikely route of entry in commercial/industrial environments. Small amounts of low dose rates are regarded as practically non-harmful. This material acts as a mild laxative. In excessive quantity, may cause stomach distension with pain.
Chronic Health Effects:	Repeated and prolonged inhalation exposure to crystalline silica dust above exposure limits may cause delayed, chronic lung injury (silicosis). When the product is used as intended, dust levels should not exceed exposure limits. See Sections 2 and 11.

SECTION 4 : FIRST AID MEASURES : (N/A)

Eye Contact:	Rubbing eyes may cause abrasions. Gently lift the eyelids and flush immediately and continuously with copious amounts of water for at least 15 minutes. If irritation continues, seek medical attention.
Skin Contact:	Wet clothing first to minimize dust generation, then remove contaminated clothing. Do not shake or blow dust off clothing or body. Wash affected skin with soap and water. Launder contaminated clothing before wearing again. Seek medical attention in event of irritation.
Inhalation:	Remove exposed person to fresh air, restore and/or support his or her breathing as needed. Encourage the victim to cough, spit out, and blow nose to remove dust. Seek medical attention if irritation or discomfort persists.
Ingestion:	Never give anything by mouth to an unconscious person. Rinse mouth out with plenty of water. If ingested, have that conscious person drink 2 to 3 glasses of water, do not induce vomiting. Consult with a physician or medically trained personnel at a poison control center.

SECTION 5 : FIRE FIGHTING MEASURES : (N/A)

Fire:	FLAMMABLE LIMITS: None identified.
Flash Point:	None identified.
Auto Ignition Temperature:	None identified.
Extinguishing Media:	This material is noncombustible. Use extinguishing agents that will put out the surrounding fire.
Hazardous Combustion Byproducts:	During a fire, irritating and toxic gases may be formed. Do not breathe smoke or fumes. Wear suitable protective equipment.
Fire Fighting Instructions:	In case of fire involving this material, do not enter the fire area without proper protective equipment including self-contained breathing apparatus. Toxic gas may be emitted.

SECTION 6 : ACCIDENTAL RELEASE MEASURES : (N/A)

Spill Cleanup Measures:	Notify safety and environmental personnel of spills or leaks. For large spills (e.g. more than 16 ounces), cleanup personnel need protection against eye contact, organic vapor, and inhalation of formaldehyde and dust. Prevent spillage from entering sewers, or storm sewers, which includes sinks, toilets, and floor drains. Recover the product whenever possible. Avoid creating dust during cleanup. Shovel the material or use high-efficiency particulate air (H.E.P.A.) filtered vacuum, wet sweeping compound or water for cleanup so that airborne dust does not exceed exposure limits. Do not dry sweep. Do not blow with air, which could cause a dusting problem. Follow applicable OSHA regulations (29 CFR 1910.120).
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SECTION 7 : HANDLING and STORAGE : (N/A)

Handling:	Use in a well-ventilated area, and handle so as to minimize dusting or any material leaks. Improper handling may lead to dust cloud formation, which, as with any organic dust, may be an explosion hazard. Keep containers securely closed when not in use.
Storage:	Store in a ventilated, cool, dry place. Heating may increase the rate of vaporevolution.
Hygiene Practices:	Practice good personal hygiene after using this material.

SECTION 8 : EXPOSURE CONTROLS, PERSONAL PROTECTION : (N/A)

Engineering Controls:	Use sufficient general area ventilation. Local exhaust ventilation should be used if airborne levels of dust exceed the exposure limits cited in Section 2.
Skin Protection Description:	Where contact is likely, chemical-resistant gloves are recommended.
Eye/Face Protection:	Wear protective eyeglasses or chemical safety goggles in windy conditions or where eye contact is possible, as required by OSHA regulations (29 CFR 1910.133).
Respiratory Protection:	When engineering controls are not sufficient to reduceexposure, seek professional advice prior to respirator selection and use. Wear NIOSH-approved respirator selected per OSHA 29 CFR 1910.134 to reduce concentrations inside the respirator below exposure limits cited in Section 2.

SECTION 9 : PHYSICAL and CHEMICAL PROPERTIES : (N/A)

Physical State/Appearance:	Powder.
Color:	Bright-colored.
Odor:	Slightly pungent.
Physical State:	Powder.
pH:	(at 10% solids): 7.5 - 8.5
Vapor Pressure:	(at 20 deg C): Not applicable.
Vapor Density:	(Air = 1): Not applicable.
Boiling Point:	Not applicable.
Melting Point:	Decomposes at 1517 deg F (825 deg C)
Solubility:	In Water: < 0.0002 (Trace)
Specific Gravity:	(H2O = 1): 2.6 - 2.7
Percent Volatile:	0
Coefficient of Water/Oil Distribution:	Not applicable.

SECTION 10 : STABILITY and REACTIVITY : (N/A)

Chemical Stability:	GENERAL: This product is stable under normal storage and handling conditions.
Conditions to Avoid:	Excessive dust in the vicinity of electrical or spark-producing equipment.

Incompatibilities with Other Materials:	Strong oxidizing agents. Ignites on contact with fluorine. Reacts with strong acids to liberate carbon dioxide.
Hazardous Polymerization:	Does not occur.
Hazardous Decomposition Products:	Formaldehyde, carbon dioxide, carbon monoxide, oxides of nitrogen and oxides of sulfur.

SECTION 11 : TOXICOLOGICAL INFORMATION : (N/A)

Applies to all ingredients:

Mutagenicity:	No data.
Teratogenicity:	No data.
Reproductive Toxicity:	No data.
Other Toxicological Information:	Target organs include: eyes, respiratory tract, and skin.

Calcium Carbonate :

Eye Effect:	Rabbit: 0.750 mg administered for 24 hours produces severe irritation.
Skin Effects:	Rabbit: 500 mg administered for 24 hours produces moderate skin irritation.
Ingestion Effects:	Rat: LD50: 6,450 mg/kg. (pigments) Rat: LD50: over 16,000 mg/kg.

Silica-Crystalline Quartz³ :

Inhalation Effects:	Human: LCLo: 300 $\mu\text{g}/\text{m}^3$ intermittent exposure over a 10 year period produced pulmonary system effects.
Carcinogenicity:	The International Agency for Research on Cancer(IARC) has designated Silica, Crystalline-Quartz: Group 1A, carcinogenic to humans; National Toxicology Program (NTP), Group K, known to be a human carcinogen. Toxicologic effects described in this section are those that would be expected based on data for the components of the product.

SECTION 12 : ECOLOGICAL INFORMATION : (N/A)

Ecological Paragraph:	Limestone is not classified as a "toxic pollutant" or a "hazardous substance" under Section 307 and 311 of the Clean Water Act.
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SECTION 13 : DISPOSAL CONSIDERATIONS : (N/A)

RCRA Hazard Class:	RCRA Hazardous Waste (40 CFR 261): This material is not a listed waste. Review Federal, state and local government requirements prior to disposal. Do not dispose of the product in storm sewer or sanitary sewer, which includes sinks, toilets, and floor drains. Disposal by landfill may be acceptable. Consult an expert on the disposal of recovered material. Ensure conformity with Federal, state, and local disposal regulations.
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SECTION 14 : TRANSPORT INFORMATION : (N/A)

DOT Hazard Class:	Non-regulated material.
IATA Hazard Class:	Non-regulated material.

SECTION 15 : REGULATORY INFORMATION

: (N/A)

Applies to All Ingredients :

TSCA 8(b): Inventory Status: All components of this product are listed, or are excluded from listing on the TSCA inventory.

Section 302: (40 CFR 355): Not Listed.

Section 304: (40 CFR 302.4): Not Listed.

Section 312 Hazard Category: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following category: "An immediate (acute) and chronic health hazard."

Section 313 Toxic Release Form: Chemicals subject to the reporting requirements of Section 313 or Title III of SARA and 40 CFR Part 372: None.

OSHA 29 CFR 1200: Some ingredients are listed as air contaminants (29 CFR 1910.1000). Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

State: California's "Safe Drinking Water and Toxic Enforcement Act of 1986" (Proposition 65).

This product contains the following Proposition 65 regulated materials known to the State of California to cause cancer or reproductive harm. The listed typical amounts are a result of their natural presence in the raw materials from which this product is produced.

arsenic: less than 2 parts per million (ppm)
lead: less than 4 ppm
nickel: less than 15 ppm

Silica-Crystalline Quartz^3 :

State: STATE REGULATIONS: California's "Safe Drinking Water and Toxic Enforcement Act of 1986" (Proposition 65).

This product contains the following Proposition 65 regulated materials known to the State of California to cause cancer or reproductive harm. The listed typical amounts are a result of their natural presence in the raw materials from which this product is produced.

silica-crystalline quartz: less than 3.0 percent

SECTION 16 : ADDITIONAL INFORMATION

: (N/A)

HMIS:

Health Hazard: 1*: Chronic effects
Fire Hazard: 0
Reactivity: 0

MSDS Revision Date: 12/24/02
Supersedes: 12/20/99
Sections 2, 3, 4, 6, 7, 8, 11, 15, and 16 have been revised.

MSDS Author: Prepared by: Larry Verdier, CIH, CSP, Shaw Environmental, Inc.
for the American Tool Companies, Inc.

Technical Contact: Jeff Curry
(937) 382-3811 (8:00-5:00 EST)

Disclaimer:

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Revision Number: 001.6

Issue date: 09/24/2018

1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Product identifier used on the label: Soft Scrub Cleanser with Bleach, Soft Scrub with Bleach Cleanser, Soft Scrub with Bleach Disinfectant Cleanser, EPA Reg No. 64240-44

Recommended use of the chemical and restrictions on use: Bleach cleaning, Do not mix with other products.

Name, address and telephone number of the chemical distributor:

Henkel Corporation
One Henkel Way
Rocky Hill, Connecticut 06067

Telephone: For medical emergencies 1-833-359-6299 For transportation CHEMTREC: 1-800-424-9300
Internet: www.henkel-northamerica.com

2. HAZARDS IDENTIFICATION

Globally Harmonized System Safety Data Sheets (SDS) are required to be readily accessible to employees for all hazardous chemicals in the workplace. This SDS provides additional information for safe handling of the product and may contain health hazard information not relevant to consumer use. For information regarding consumer application of this product, refer to the product label.

HAZARD CLASS	HAZARD CATEGORY
SKIN IRRITATION	2
EYE IRRITATION	2A
ACUTE HAZARDS TO THE AQUATIC ENVIRONMENT	2

Signal word: WARNING

Hazard Statement(s):
Causes skin irritation.
Causes serious eye irritation.
Toxic to aquatic life.

Symbol(s):



Precautionary Statements:

Prevention: Wash thoroughly after handling.
Avoid release to the environment.
Wear eye and face protection.
Wear protective gloves.

Response: IF ON SKIN: Wash with plenty of water.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If skin irritation occurs: Get medical attention.
If eye irritation persists: Get medical attention.
Take off contaminated clothing.

Storage: Not prescribed

Disposal: Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.

Hazards not otherwise classified: Not available.

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

RS Number: 387265

Soft Scrub Cleanser with Bleach, Soft Scrub with Bleach Cleanser, Soft Scrub with Bleach Disinfectant Cleanser, EPA Reg No. 64240-44

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

The following chemicals are classified as hazards in accordance with § 1910.1200.

Chemical Name*	CAS Number (Unique Identifier)	Concentration
Limestone	1317-65-3	30 - 60 %
Boehmite (Al(OH)O)	1318-23-6	1 - 5 %
Sulfonic acids, C13-17-sec-alkane, sodium salts	85711-69-9	1 - 5 %
Sodium hypochlorite	7681-52-9	1 - 5 %

* Exact percentages may vary or are trade secret. Concentration range is provided to assist users in providing appropriate protections.

4. FIRST AID MEASURES

Description of necessary measures

Inhalation: Remove from exposure area to fresh air. Contact physician or local poison control center.
Skin contact: Rinse affected area with large amounts of water until no evidence of product remains. Get medical attention if irritation persists.
Eye contact: Rinse eyes immediately with plenty of water, occasionally lifting upper and lower lids, until no evidence of product remains. Get medical attention if pain or irritation persist.
Ingestion: Dilution by rinsing the mouth and giving a glass of water to drink is generally recommended. Contact physician or local poison control center.

Most important symptoms and effects, both acute and delayed

After eye contact: Moderate to strong irritation of the eyes (redness, swelling, burning, watering eyes). After skin contact: Temporary irritation of the skin (redness, swelling, burning). After inhalation: Breathing high vapor concentrations may produce anesthetic effects, nausea, dizziness, headache. After ingestion: Ingestion may cause irritation of mouth, throat, digestive tract, diarrhea and vomiting.

Indication of any immediate medical attention and special treatment needed

After eye contact: Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. After skin contact: Rinse affected area with large amounts of water until no evidence of product remains. After inhalation: Remove from exposure area to fresh air. After ingestion: May be fatal if swallowed and enters airways. Dilution by rinsing the mouth and giving water or milk to drink is generally recommended.

5. FIRE FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Dry chemical, carbon dioxide, water spray or regular foam.
Unsuitable extinguishing media: None known

Specific hazards arising from the chemical

Oxides of carbon and oxides of nitrogen.

Special protective equipment and precautions for fire-fighters

In case of fire, wear a full-face positive-pressure self-contained breathing apparatus and protective suit. Move containers from fire area if you can do it without risk. Apply cooling water to sides of containers that are exposed to flames until well after fire is out. Avoid breathing hazardous vapors, keep upwind. Isolate area. Keep unnecessary personnel away.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Wear skin, eye and respiratory protection as recommended in Section 8. Stop leak if you can do it without risk. Spills present a slipping hazard. Keep unnecessary personnel away. Ventilate spill area if possible. Make sure area is slip-free before re-opening to traffic.

Environmental precautions

This product is toxic to fish and aquatic invertebrates. This product should not be directly discharged into lakes, streams, ponds, estuaries, oceans, public water supplies, or other waters.

Methods and materials for containment and cleaning up

SMALL SPILLS: Contain and absorb with sand or other absorbent material and place into clean, dry containers for later disposal. Wash site of spillage thoroughly with water. LARGE SPILLS: Dike far ahead of spill to prevent further movement. Recover by pumping or by using a suitable absorbent material and place into containers for later disposal. Dispose in suitable waste container.

7. HANDLING AND STORAGE

Precautions for safe handling

Do not get in eyes, on skin, on clothing Do not take internally. Use with adequate ventilation. Avoid generating aerosols and mists. Keep the containers closed when not in use. Have emergency equipment (for fires, spills, leaks, etc.) readily available.

Conditions for safe storage, including any incompatibilities

Store in a cool, dry, ventilated area out of reach of children and away from sources of heat, moisture, and incompatible substances. Storage areas for large quantities (warehouse) should be well ventilated. Keep the containers tightly closed when not in use.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

OSHA permissible exposure limit (PEL), American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV), American Industrial Hygiene Association (WEEL) Workplace Environmental Exposure Level and any other exposure limit used or recommended by the chemical manufacturer, importer, or employer preparing the safety data sheet, where available.

Hazardous Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Limestone	10 mg/m3 TWA Total dust.	5 mg/m3 PEL Respirable fraction. 15 mg/m3 PEL Total dust.	None	None
Boehmite (Al(OH)O)	1 mg/m3 TWA Respirable fraction.	None	None	None
Sodium hypochlorite	None	None	2 mg/m3 STEL	None

Appropriate engineering controls

Provide local exhaust or general dilution ventilation to keep exposure to airborne contaminants below the permissible exposure limits where mists or vapors may be generated. Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode.

Individual protection measures

Respiratory:	Air contamination monitoring should be carried out where mists or vapors are likely to be generated, to assure that the employees are not exposed to airborne contaminants above the permissible exposure limits.
Eye:	Splash-proof safety glasses are required to prevent eye contact where splashing of product may occur.
Hand/Body:	Protective gloves are required where repeated or prolonged skin contact may occur. Protective clothing is required where repeated or prolonged skin contact may occur.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	cream white
Odor:	characteristic
Odor threshold:	Not available.
pH:	12.7
Melting point/ range:	Not available.
Boiling point/range:	Not available.
Flash point:	Not available.
Evaporation rate:	Not available.
Flammable/Explosive limits - lower:	Not available.
Flammable/Explosive limits - upper:	Not available.

RS Number: 387265

Soft Scrub Cleanser with Bleach, Soft Scrub with Bleach Cleanser, Soft Scrub with Bleach Disinfectant Cleanser, EPA Reg No. 64240-44

Vapor pressure:	Not available.
Vapor density:	Not available.
Solubility in water:	Soluble
Partition coefficient (n-octanol/water):	Not available.
Autoignition temperature:	Not available.
Decomposition temperature:	Not available.
Viscosity:	4,000 - 12,000 mPa.s
VOC content:	Not available.
Specific gravity:	1.3 at 25 °C (77°F)

10. STABILITY AND REACTIVITY

Reactivity:	This product reacts with acids.
Chemical stability:	Stable under normal ambient temperature (70°F, 21°C) and pressure (1 atm).
Possibility of hazardous reactions:	Hazardous polymerization has not been reported to occur under normal temperatures and pressures.
Conditions to avoid:	Avoid storing in direct sunlight and avoid extremes of temperature.
Incompatible materials:	Strong oxidizers, acids. Reacts with other household chemicals such as acid toilet bowl cleaners, rust removers, acids, vinegar, and ammonia-containing products to produce hazardous gases, such as chlorine and other chlorinated compounds.
Hazardous decomposition products:	Thermal decomposition products may include oxides of carbon and chlorine.

11. TOXICOLOGICAL INFORMATION

Likely routes of exposure including symptoms related to characteristics

Inhalation:	Unlikely to occur due to the physical properties of the product.
Skin contact:	Repeated or prolonged excessive exposure may cause irritation or dermatitis.
Eye contact:	May cause moderate to severe irritation.
Ingestion:	Ingestion of large quantities may cause gastrointestinal irritation with nausea, vomiting and diarrhea.
Physical/Chemical:	No physical/chemical hazards are anticipated for this product.

Other relevant toxicity information:	This product is a laundry care product. The use of this product by consumers is safe under normal and reasonable foreseen use.
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Numerical measures of toxicity, including delayed and immediate effect

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
Limestone	None	Nuisance dust
Boehmite (Al(OH)O)	None	Respiratory, Corrosive, Irritant
Sulfonic acids, C13-17-sec-alkane, sodium salts	None	No Data
Sodium hypochlorite	Oral LD50 (RAT) = 8.91 g/kg	Irritant, Corrosive, Skin

Carcinogenicity information

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
Limestone	No	No	No
Boehmite (Al(OH)O)	No	No	No
Sulfonic acids, C13-17-sec-alkane, sodium salts	No	No	No
Sodium hypochlorite	No	No	No

Carcinogenicity	None of the ingredients in this product are listed as carcinogens by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP) or the Occupational Safety and Health Administration (OSHA).
Mutagenicity	None of the ingredients in this product are known to cause mutagenicity.
Toxicity for reproduction	None of the ingredients in this product are known as reproductive, fetal, or developmental hazards.

12. ECOLOGICAL INFORMATION

Aquatic Toxicity:

This product is anticipated to be safe for the environment at concentrations predicted in household settings under normal use conditions. The following toxicity information is available for the hazardous ingredient(s) when used as technical grade and is provided as reference for the occupational settings.

Toxicity to fish:

Hazardous substances CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Calcium carbonate 1317-65-3	LC50	> 10,000 mg/l	Fish	96 h	not specified	OECD Guideline 203 (Fish, Acute Toxicity Test)
Boehmite (Al(OH)O) 1318-23-6	LC50	> 100 mg/l	Fish	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
Sulfonic acids, C13-17-sec-alkane, sodium salts 85711-69-9	LC50	4.1 mg/l	Fish	48 h	Leuciscus idus	DIN 38412-15
Sodium hypochlorite 7681-52-9	LC50	0.062 - 0.095 mg/l	Fish	96 h	Salmo gairdneri (new name: Oncorhynchus mykiss)	OECD Guideline 203 (Fish, Acute Toxicity Test)

Toxicity to aquatic invertebrates:

Hazardous substances CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Calcium carbonate 1317-65-3	EC50	> 1,000 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Boehmite (Al(OH)O) 1318-23-6	EC50	> 100 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Sulfonic acids, C13-17-sec-alkane, sodium salts 85711-69-9	EC50	7.5 mg/l	Daphnia	24 h	Daphnia magna	not specified
Sodium hypochlorite 7681-52-9	EC50	0.035 mg/l	Daphnia	48 h	Ceriodaphnia dubia	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

Toxicity to algae:

Hazardous substances CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Calcium carbonate 1317-65-3	EC50	> 200 mg/l	Algae	72 h	not specified	OECD Guideline 201 (Alga, Growth Inhibition Test)
Sulfonic acids, C13-17-sec-alkane, sodium salts 85711-69-9	EC50	95.5 mg/l	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
	NOEC	20.1 mg/l	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Sodium hypochlorite 7681-52-9	EC50	0.036 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
	NOEC	0.005 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)

Persistence and degradability

Hazardous substances CAS-No.	Result value	Route of application	Species	Method
Sulfonic acids, C13-17-sec-alkane, sodium salts 85711-69-9	readily biodegradable	aerobic	71 %	EU Method C.4-E (Determination of the "Ready" Biodegradability Closed Bottle Test)
		aerobic	85 %	EU Method C.9 (Biodegradation: Zahn-Wellens Test)

Bioaccumulative potential

The bioaccumulation potential of this product has not been determined.

Mobility in soil

The mobility of this product (in soil and water) has not been determined.

13. DISPOSAL CONSIDERATIONS

Description of waste residues:

Hazardous waste number: Not regulated

Safe handling and disposal methods:

Recommended method of disposal: This product is not a RCRA hazardous waste and can be disposed of in accordance with federal, state and local regulations.

Disposal of uncleaned packages: Do not reuse this container.

14. TRANSPORT INFORMATION

The information in this section is for reference only and should not take the place of a shipping paper (bill of lading) specific to an order. Please note that the proper shipping classification may vary by packaging, properties, and mode of transportation.

U.S. Department of Transportation Ground (49 CFR)

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s.
Hazard class or division: 9
Identification number: UN 3082
Packing group: III
DOT Hazardous Substance(s): Sodium hypochlorite

International Air Transportation (ICAO/IATA)

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s.
Hazard class or division: 9
Identification number: UN 3082
Packing group: III

Water Transportation (IMO/IMDG)

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Hazard class or division: 9
Identification number: UN 3082
Packing group: III

15. REGULATORY INFORMATION

United States Regulatory Information

TSCA 8 (b) Inventory Status: FIFRA listed All components are listed or are exempt from listing on the Toxic Substances Control Act inventory.

TSCA 12 (b) Export Notification:

CERCLA/SARA Section 302 EHS: None above reporting de minimis.

CERCLA/SARA Section 311/312: Not available.

CERCLA/SARA Section 313: None above reporting de minimis.

California Proposition 65:

No California Proposition 65 listed chemicals are known to be present.

FIFRA Regulated Products:

This is a pesticide product registered by the US Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. Refer to the pesticide label for specific hazard information. The pesticide label also includes other important information, including directions for use. EPA Signal Word: WARNING
EPA Precautionary Language: Causes substantial but temporary eye injury. Do not get in eyes on skin or on clothing. May cause skin irritation. For sensitive skin or prolonged use, wear gloves. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or going to the toilet. Remove and wash contaminated clothing before reuse.

Canada Regulatory Information

CEPA DSL/NDL Status: All components are listed on or are exempt from listing on the Canadian Domestic Substances List.

16. OTHER INFORMATION

DISCLAIMER: The (M)SDS is intended to provide a brief summary of our knowledge and guidance regarding the use of this material. The information contained here has been compiled from sources considered to be dependable and is accurate to the best of the Company's knowledge. It is not meant to be an all-inclusive document on worldwide hazard communication regulations. This information is offered in good faith. Each user of this material needs to evaluate the conditions of use and design the appropriate protective mechanisms to prevent employee exposures, property damage or release to the environment.

This safety data sheet contains changes from the previous version in sections: New Safety Data Sheet format.

Prepared by: R&D Support Services

Issue date: 09/24/2018

Jaco Industrial Supply
510-E. Crestwood
Victoria, Texas

Information: 512/573-0660
Emergency : 713/473-3345

MATERIAL SAFETY DATA SHEET

DIAZINON 14G

EPA NO. 10370-148

MSDS NO. 10148-00-A

DATE 6-30-86

HERBICIDE INSECTICIDE X FUNGICIDE MOLLUSCICIDE

CHEMTREC TRSPT EMERGENCY
Telephone 1-800-424-9300

NON-TRANSPORTATION EMERGENCY-POISON CONTROL CENTER
Galveston Poison Control Ctr. 713-765-1420

EPA REG. NO. : 10370-148

CAS NO. : 333-41-5

CHEMICAL NAME: O,O DIETHYL O-2-ISOPROPYL-4-METHYL-6-PYRIMIDINYL
PHOSPHOROTHIOATE

TRADE NAMES: SPECTRACIDE, DIAZINON, DIAZOL, BASODIN

SECTION I - PHYSICAL DATA

PHYSICAL FORM: SOLID, GRANULAR
VAPOR PRESSURE: 1.4×10^{-4} mm/Hg
SPECIFIC GRAVITY: N/A

COLOR: LIGHT BROWN BULK DENSITY: 38 LB/CU FT
ODOR: MILD ESTER-LIKE SOLUBILITY: N/A
FLASH POINT: N/A PH: N/A

SECTION II - HAZARDOUS INGREDIENTS

1. DIAZINON	A. I. TWA-TLV	STEL
2. INERTS	14% 0.1 mg/M3	N/A
LD50 ORAL: >400 mg/kg	86% N/A	N/A
Carries <u>CAUTION</u> signal word.	LD50 DERMAL: 3600 mg/kg	Toxicity category: III

SECTION III - HEALTH HAZARDS

STATEMENT OF HAZARDS: Caution: This pesticide may be fatal to children and dogs or other pets, if eaten. Keep them out of treated areas. Avoid contact with eyes, skin and clothing. Wear regular longsleeved work clothes. Change to clean clothes daily. Wash hands thoroughly before eating or smoking.

FIRST AID: IF SWALLOWED: Call a physician or Poison Control Center immediately. Induce vomiting by giving victim 1 or 2 glasses of water and by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious or convulsing person. IF INHALED: Remove victim to fresh air and apply artificial respiration if indicated. Call a physician. IF IN EYES, flush eyes with plenty of water. Get medical attention. IF ON SKIN, remove contaminated clothing and wash affected area with soap and water.

EFFECTS OF OVER EXPOSURE: In eyes; prolonged irritation.

PRECAUTIONARY MEASURES: Protect skin with appropriate clothing.

SPILL OR LEAK PROCEDURE: Wear protective clothing. Sweep up product & use according to directions or replace into labeled container.

SECTION IV - FIRE & EXPLOSION HAZARDS

FLASH POINT: N/A

EXTINGUISHING MEDIA: WATER, FOAM, CO2

SPECIAL FIRE FIGHTING PROCEDURES: AVOID BREATHING SMOKE OR FUMES. AVOID HEAVY STREAMS OF WATER. DIKE TO PREVENT RUNOFF.

UNUSUAL FIRE OR EXPLOSION HAZARDS: HAZARDOUS DECOMPOSITION PRODUCTS MAY INCLUDE TEPP (TETRAETHYL MONOTHIOPIROPHOSPHATE).

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SAFETY DATA SHEET

Revision Date 24-Apr-2015

Version 1

1. IDENTIFICATION

Product identifier

Product Name the Works Toilet Bowl Cleaner

Other means of identification

Product Code 33310WK

UN/ID no. UN3264

Recommended use of the chemical and restrictions on use

Recommended Use Home care.

Uses advised against Do not mix with other chemicals

Details of the supplier of the safety data sheet

Supplier Address

HomeCare Labs, Inc.
P.O. Box 491150
Lawrenceville, GA 30049-1002
Telephone: (800) 949-7946

Emergency telephone number

Emergency Telephone Chemtrec (Transportation) 1-800-424-9300, 703-527-3887
Poison Control Center (Medical) : (877) 800-5553

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Inhalation (Gases)	Category 4
Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1

Label elements

Emergency Overview

Danger

Hazard statements

Harmful if inhaled
Causes severe skin burns and eye damage



Color blue

Physical state liquid

Odor Mint-like

Precautionary Statements - Prevention

Use only outdoors or in a well-ventilated area
 Do not breathe dust/fume/gas/mist/vapors/spray
 Wash face, hands and any exposed skin thoroughly after handling
 Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

Immediately call a POISON CENTER or doctor/physician
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 Immediately call a POISON CENTER or doctor/physician
 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
 Wash contaminated clothing before reuse
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
 Call a POISON CENTER or doctor/physician if you feel unwell
 Immediately call a POISON CENTER or doctor/physician
 IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not applicable

Other Information

0.59% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Chemical Name	CAS No.	Weight-%
Hydrochloric Acid	7647-01-0	9.5

4. FIRST AID MEASURES

Description of first aid measures

General advice	Immediate medical attention is required.
Eye contact	Immediate medical attention is required. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Call a physician immediately.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician.
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If symptoms persist, call a physician.
Ingestion	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Clean mouth with water and drink afterwards plenty of water. Call a physician or poison control center immediately.
Self-protection of the first aider	Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure. Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media None known.

Specific hazards arising from the chemical

The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating and toxic gases and vapors. In the event of fire and/or explosion do not breathe fumes.

Explosion data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Evacuate personnel to safe areas. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Keep people away from and upwind of spill/leak.

Environmental precautions

Environmental precautions Do not allow into any sewer, on the ground or into any body of water. Should not be released into the environment. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. See Section 12 for additional ecological information.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Dike far ahead of liquid spill for later disposal. Soak up with inert absorbent material. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly. Prevent product from entering drains. Dam up. After cleaning, flush away traces with water.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation, especially in confined areas. In case of insufficient ventilation, wear suitable respiratory equipment. Use only with adequate ventilation and in closed systems. Do not breathe dust/fume/gas/mist/vapors/spray. Do not mix with other chemicals.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep out of the reach of children. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers.

Incompatible materials Chlorine bleach. Incompatible with strong acids and bases. Incompatible with oxidizing agents. Chlorine-based bleaching agents. Ammonia. rust removers. Vinegar. Contact with metals may evolve flammable hydrogen gas.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Hydrochloric Acid 7647-01-0	Ceiling: 2 ppm	(vacated) Ceiling: 5 ppm (vacated) Ceiling: 7 mg/m ³ Ceiling: 5 ppm Ceiling: 7 mg/m ³	IDLH: 50 ppm Ceiling: 5 ppm Ceiling: 7 mg/m ³

NIOSH IDLH Immediately Dangerous to Life or Health

Other Information Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Appropriate engineering controls

Engineering Controls Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles). Tight sealing safety goggles. Face protection shield.

Skin and body protection Wear protective gloves and protective clothing.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

General Hygiene Considerations When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Keep away from food, drink and animal feeding stuffs. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing. Take off all contaminated clothing and wash it before reuse. Wear suitable gloves and eye/face protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	liquid	Odor	Mint-like
Appearance	aqueous solution	Odor threshold	No information available
Color	blue		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	<1	
Melting point/freezing point	-40 °C / -40 °F	
Boiling point / boiling range	102 °C / 215 °F	
Flash point	No information available	

Evaporation rate	No information available
Flammability (solid, gas)	No information available
Flammability Limit in Air	
Upper flammability limit:	No information available
Lower flammability limit:	No information available
Vapor pressure	No information available
Vapor density	No information available
Specific Gravity	1.092 - 1.106
Water solubility	Completely miscible with water
Solubility in other solvents	No information available
Partition coefficient	No information available
Autoignition temperature	No information available
Decomposition temperature	No information available
Kinematic viscosity	No information available
Dynamic viscosity	No information available
Density	No information available
Bulk density	No information available
Explosive properties	No information available
Oxidizing properties	No information available

Other Information

Softening point	No information available
Molecular weight	No information available
VOC Content (%)	No information available

10. STABILITY AND REACTIVITY

Reactivity

No data available

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

Extremes of temperature and direct sunlight.

Incompatible materials

Chlorine bleach. Incompatible with strong acids and bases. Incompatible with oxidizing agents. Chlorine-based bleaching agents. Ammonia. rust removers. Vinegar. Contact with metals may evolve flammable hydrogen gas.

Hazardous Decomposition Products

Thermal decomposition can lead to release of irritating and toxic gases and vapors. Hydrogen chloride.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation	Avoid breathing vapors or mists. Irritating to respiratory system. Harmful by inhalation.
Eye contact	Severely irritating to eyes. Risk of serious damage to eyes. Causes burns.
Skin contact	Contact causes severe skin irritation and possible burns.
Ingestion	Harmful if swallowed.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Hydrochloric Acid 7647-01-0	238 - 277 mg/kg (Rat)	> 5010 mg/kg (Rabbit)	= 1.68 mg/L (Rat) 1 h

Information on toxicological effects

Symptoms	No information available.
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Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization No information available.
Germ cell mutagenicity No information available.
Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Hydrochloric Acid 7647-01-0	-	Group 3	-	-

*IARC (International Agency for Research on Cancer)
 Not classifiable as a human carcinogen*

Reproductive toxicity No information available.
STOT - single exposure No information available.
STOT - repeated exposure No information available.
Chronic toxicity Avoid repeated exposure.
Target Organ Effects Eyes, Respiratory system, Skin.
Aspiration hazard No information available.

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document .

12. ECOLOGICAL INFORMATION

Ecotoxicity

0.58735% of the mixture consists of component(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Hydrochloric Acid 7647-01-0	-	282: 96 h Gambusia affinis mg/L LC50 static	-

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Mobility

No information available.

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261).

Contaminated packaging Do not reuse container. Refer to all federal, state and local regulations prior to disposal of container and unused contents by reuse, recycle or disposal.

14. TRANSPORT INFORMATION

Note: Limited quantity (LQ) exception is possible

DOT

UN/ID no. UN3264

Proper shipping name Corrosive liquid, acidic, inorganic, n.o.s. (Hydrochloric acid solution)
Hazard Class 8
Packing Group II
Emergency Response Guide Number 154

IATA

UN/ID no. UN3264
Proper shipping name Corrosive liquid, acidic, inorganic, n.o.s. (hydrochloric acid)
Hazard Class 8
Packing Group II

IMDG

UN/ID no. UN3264
Proper shipping name Corrosive liquid, acidic, inorganic, n.o.s. (hydrochloric acid)
Hazard Class 8
Packing Group II
EmS-No. F-A, S-B
Marine pollutant No

15. REGULATORY INFORMATION

International Inventories

TSCA Complies
DSL/NDSL Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	SARA 313 - Threshold Values %
Hydrochloric Acid - 7647-01-0	1.0

SARA 311/312 Hazard Categories

Acute health hazard Yes
Chronic Health Hazard No
Fire hazard No
Sudden release of pressure hazard No
Reactive Hazard No

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Hydrochloric Acid 7647-01-0	5000 lb	-	-	X

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Hydrochloric Acid 7647-01-0	5000 lb	5000 lb	RQ 5000 lb final RQ RQ 2270 kg final RQ

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Hydrochloric Acid 7647-01-0	X	X	X

U.S. EPA Label Information

EPA Pesticide Registration Number 5185-505-80306

EPA Statement

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

Difference between SDS and EPA Pesticide label

DANGER: CORROSIVE. Causes skin burns and irreversible eye damage. Harmful if swallowed or absorbed through skin. Do not get in eyes, on skin, or on clothing. Wear goggles or safety glasses, protective clothing, and rubber (or chemical-resistant) gloves. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse. Do not breathe vapor or fumes. Keep out of reach of children. **CHEMICAL HAZARDS:** Do not use with chlorine -type bleach or any other chemical products, to do so may release hazardous gases creating a risk of serious injury, including death.

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

<u>NFPA</u>	Health hazards 3	Flammability 0	Instability 0	Physical and Chemical Properties - Personal protection X
<u>HMIS</u>	Health hazards 3	Flammability 0	Physical hazards 0	

Prepared By Regulatory Affairs
Revision Date 24-Apr-2015
Revision Note No information available

Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet

VINEGAR

Material Safety Data Sheet

I. Product Identification

REPACKAGED by: RO
1651 Wall St
Garland, TX 75041

Regular Tel. # 972-864-1934
Fax # 972-864-0128

ADDRESS: 1651 Wall St. Garland, TX 75041

SYNONYMS: Rohde's Services Inc.

EMERGENCY ASSISTANCE

For emergency assistance involving chemicals call - CHEMTREC
800-424-9300

MATERIAL OR COMPONENT

DOT SHIPPING AND HAZARD CLASSIFICATION: This product contains hazardous materials as defined by the OSHA Hazard communication Standard 29 CFR 1910, 1200.

Chemical name & formula: Concentrated Acetic Acid CH_3COOH

Trade Name: White Vinegar 20% Solution

CAS No.: 64-19-7

CAS Registry No.: 8028-52-2

Definition: Product made by the acetous fermentation of ethyl alcohol containing 11 to 30% acetic acid (or 110 to 300 grain vinegar.)

III. PHYSICAL DATA

BOILING POINT: 244 degrees F

SPECIFIC GRAVITY @ 1.01

VAPOR DENSITY (AIR=1)

%VOLATILES BY VOL: 100%

MELTING POINT (Acetic Acid) 62 degrees F

VAPOR PRESSURE (MM Hg): 11MM

SOLUBILITY IN H₂O: Complete

BULK DENSITY

APPEARANCE AND ODOR: Appropriate color and odor for type of vinegar

IV. FIRE & EXPLOSION DATA

FLASH POINT: 40 deg. C. Closed cup (Acetic Acid)

AUTOIGNITION TEMPERATURE: 427 degrees C. (Acetic Acid)

FLAMABLE LIMITS IN AIR : 4.0% - 16% (Acetic Acid)

EXTINGUISHING MEDIA: Water spray, foam CO_2 , or dry chemical.

SPECIAL FIRE FIGHTING PROCEDURES: Water may be used to dilute spills and reduce flammability

UNUSUAL FIRE AND EXPLOSION HAZARDS: Toxic gasses and vapors may be released in a fire involving concentrated vinegar.

V. HEALTH HAZARD INFORMATION

SYMPTOMS OF OVER EXPOSURE

INHALATION: Threshold Limit value: 10 PPM
Short Term Exposure Limit: 15 PPM for 15 minutes
Odor Threshold: 0.037 – 0.15 PPM

Inhalation of vapors can cause irritation to respiratory tract. Avoid inhalation.

SKIN CONTACT: Contact may cause mild injury and burns from vinegars of 11% acetic acid and greater. Dilute solutions may cause dermatitis in some individuals.

EYE CONTACT: May cause severe burns and permanent corneal injury from concentrated vinegars. May be followed by blindness. High vapor concentrations may result in conjunctivitis.

INGESTION: Concentrated vinegars may cause pain, irritation and burns in mouth, gullet and stomach.

REPRODUCTIVE HAZARDS: Not a reproductive hazard.

EMERGENCY FIRST AID PROCEDURES

EYES: Flush immediately and thoroughly with water.

SKIN: Flush immediately and thoroughly with water.

INHALATION: If vapors are inhaled extensively, exposed person should be removed to fresh air immediately.

INGESTION: If swallowed, water should be consumed to dilute. Do not induce vomiting. Do not give emetics or baking soda. Call a physician.

SUSPECTED CANCER AGENT?

NO: This product's ingredients are not found in the list below.

YES: ___Federal OSHA___NTP___IARC___TX/OSHA

NOTES TO PHYSICIAN:

VII. SPILL, LEAK & DISPOSAL PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

If vinegar is spilled: dike or contain, ventilate area, dilute with water. May be neutralized with addition of dilute alkaline solutions of soda, ash, or lime.

Do not flush to streams or sewers.

Protect skin and eyes from exposure. Avoid breathing vapor.

WASTE DISPOSAL METHODS:

Treatment or disposal of waste generated by use of vinegar should be reviewed in terms of applicable federal, state and local laws and regulations. Users are advised to consult with appropriate regulatory agencies before discharge, treatment or disposal.

VIII. SPECIAL PROTECTION INFORMATION

Respiratory Protection:

As required to prevent exposure to concentrations which exceed the permissible level. When there is potential for airborne exposures in excess of applicable limits, wear NIOSH/MSHA approved respiratory protection. Under normal use conditions, with adequate ventilation, no special handling equipment is required.

Ventilation Requirements:

Local exhaust recommended.

Mechanical recommended.

Eyes And Face: Safety glasses or plastic face shield required.

Hands, Arms, Body: Rubber or neoprene gloves recommended.

Rubber apron or other protective equipment as required to reduce direct contact.

Other Equipment: Eye wash station, safety shower.

IX. SPECIAL PRECAUTIONS

PRECAUTINARY STATEMENTS

Avoid contact with eyes. Do not ingest.

OTHER HANDLING AND STORAGE REQUIREMENTS

Product may expand slightly in storage causing pressure to build in container. Open container carefully if product appears to be under pressure. Drum lining may occasionally chip and fall to bottom of container after long storage or excessive handling. AS a precaution, pour liquid through filter/ strainer to catch small pieces of liner before blending or repackaging. Commercially clean empty containers before re-use.

CAUTION: Do not weld or cut empty containers. VAPORS MAY IGNITE.

PREPARED BY: RO
ADDRESS: 1651 WALL ST.
GARLAND, TX 75041
TELEPHONE: (972) 864-1934
DATE December 14, 2002

All information, recommendations and suggestions herein concerning this product are based upon data believed to be reliable. However it is the users responsibility to determine the safety, toxicity and suitability for his/her own use of this product. Since the actual use of others is beyond our control, we make no guarantee expressed or implied as to the effects of such use, the results to be obtained, or the safety and toxicity of the product. This information is not to be construed as absolutely complete, since additional information may be necessary of desirable when exceptional conditions or circumstances exist or because of applicable laws or government regulations.



SAFETY DATA SHEET

Issue Date 22-Nov-2015

Revision Date 10-Jul-2016

Version 1

1. IDENTIFICATION

Product identifier

Product Name EXTREME WET PATCH® ROOF LEAK REPAIR

Other means of identification

Product Code HE209XR

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Coatings Sealant

Uses advised against No information available

Details of the supplier of the safety data sheet

Manufacturer Address

HENRY COMPANY

999 N. Sepulveda Blvd., Suite 800

El Segundo, CA 90245-2716

Web Site: www.henry.com www.ca.henry.com

Emergency telephone number

Company Phone Number 800-486-1278

Emergency Telephone CHEMTREC: 800-424-9300

CHEMTREC: 703-527-3887

CANUTEC: 613-966-6666

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Specific target organ toxicity (single exposure)	Category 3
Flammable liquids	Category 3

Label elements

Emergency Overview

Warning

Hazard statements

Causes skin irritation

Causes serious eye irritation

May cause respiratory irritation. May cause drowsiness or dizziness

Flammable liquid and vapor



Appearance viscous

Physical state liquid

Odor Solvent

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection
Avoid breathing dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
Keep away from heat/sparks/open flames/hot surfaces. - No smoking
Keep container tightly closed
Ground/bond container and receiving equipment
Use explosion-proof electrical/ ventilating / lighting/ mixing / equipment
Use only non-sparking tools
Take precautionary measures against static discharge

Precautionary Statements - Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention
If skin irritation occurs: Get medical advice/attention
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
Wash contaminated clothing before reuse
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Call a POISON CENTER or doctor/physician if you feel unwell
In case of fire: Use CO2, dry chemical, or foam for extinction

Precautionary Statements - Storage

Store in a well-ventilated place. Keep container tightly closed
Store locked up
Keep cool

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not applicable

Other Information

May be harmful in contact with skin. Harmful to aquatic life with long lasting effects. Harmful to aquatic life.

Unknown acute toxicity

24.67952% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Not applicable

Mixture

Chemical Name	CAS No	Weight-%
Asphalt *	8052-42-4	30 - 60

Fullers earth *	8031-18-3	10 - 30
Solvent naphtha, petroleum, light aromatic *	64742-95-6	10 - 30
Benzene, 1,2,4-trimethyl- *	95-63-6	5 - 10
Rubber compounds *	Proprietary	3 - 7
Cellulose *	9004-34-6	1 - 5
1,2,3-Trimethylbenzene *	526-73-8	1 - 5

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

Description of first aid measures

- General advice** Immediate medical attention is required. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).
- Eye contact** Keep eye wide open while rinsing. Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. If symptoms persist, call a physician.
- Skin contact** Wash off immediately with plenty of water.
- Inhalation** Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. If symptoms persist, call a physician.
- Ingestion** Call a physician or poison control center immediately. Do not induce vomiting without medical advice. Rinse mouth. Never give anything by mouth to an unconscious person.
- Self-protection of the first aider** Remove all sources of ignition.

Most important symptoms and effects, both acute and delayed

Symptoms May cause redness and tearing of the eyes. Coughing and/ or wheezing. May cause skin irritation. Drowsiness. Dizziness.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Dry chemical, CO2, sand, earth, water spray or regular foam.

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the chemical

Flammable.

Explosion data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Remove all sources of ignition. Evacuate personnel to safe areas. Ensure adequate ventilation, especially in confined areas. Use personal protective equipment as required.

Environmental precautions

Environmental precautions Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Ensure adequate ventilation, especially in confined areas. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Take precautionary measures against static discharges. Use spark-proof tools and explosion-proof equipment. All equipment used when handling the product must be grounded.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep tightly closed in a dry and cool place. Keep in properly labeled containers. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity).

Incompatible materials Strong oxidizing agents. Strong acids. Strong bases.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Asphalt 8052-42-4	TWA: 0.5 mg/m ³ benzene soluble aerosol fume, inhalable fraction	-	Ceiling: 5 mg/m ³ fume 15 min
Benzene, 1,2,4-trimethyl- 95-63-6	-	-	TWA: 25 ppm TWA: 125 mg/m ³
Cellulose 9004-34-6	TWA: 10 mg/m ³	TWA: 15 mg/m ³ total dust TWA: 5 mg/m ³ respirable fraction	TWA: 10 mg/m ³ total dust TWA: 5 mg/m ³ respirable dust TWA: 1 mg/m ³
1,2,3-Trimethylbenzene 526-73-8	-	-	TWA: 25 ppm TWA: 125 mg/m ³

NIOSH IDLH Immediately Dangerous to Life or Health

Appropriate engineering controls

Engineering Controls Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin and body protection	Wear protective gloves and protective clothing.
Respiratory protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
General Hygiene Considerations	When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	liquid	Odor	Solvent
Appearance	viscous	Odor threshold	No information available
Color	black		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	No information available	
Melting point / freezing point	No information available	
Boiling point / boiling range	> 150 °C / 302 °F	
Flash point	42 °C / 108 °F	Pensky-Martens Closed Cup (PMCC)
Evaporation rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limit in Air		
Upper flammability limit:	6	
Lower flammability limit:	1	
Vapor pressure	No information available	
Vapor density	3.6	
Relative density	1 - 1.1	
Water solubility	Insoluble in water	
Solubility in other solvents	No information available	
Partition coefficient	No information available	
Autoignition temperature	>250 °C / 482 °F	
Decomposition temperature	No information available	
Kinematic viscosity	> 100 mm ² /s	@ 40 °C
Dynamic viscosity	No information available	
Explosive properties	Not an explosive	
Oxidizing properties	Not applicable	

Other Information

Softening point	No information available
Molecular weight	No information available
VOC Content (%)	No information available
Density	No information available
Bulk density	No information available

10. STABILITY AND REACTIVITY

Reactivity
No data available

Chemical stability
Stable under recommended storage conditions.

Possibility of Hazardous Reactions
None under normal processing.

Conditions to avoid
Heat, flames and sparks.

Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases.

Hazardous Decomposition Products

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation	May cause irritation of respiratory tract. May cause drowsiness or dizziness.
Eye contact	Irritating to eyes.
Skin contact	Irritating to skin.
Ingestion	Based on available data, the classification criteria are not met.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Asphalt 8052-42-4	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	-
Solvent naphtha, petroleum, light aromatic 64742-95-6	= 8400 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	= 3400 ppm (Rat) 4 h
Benzene, 1,2,4-trimethyl- 95-63-6	= 3280 mg/kg (Rat)	> 3160 mg/kg (Rabbit)	= 18 g/m ³ (Rat) 4 h
Cellulose 9004-34-6	> 5 g/kg (Rat)	> 2 g/kg (Rabbit)	> 5800 mg/m ³ (Rat) 4 h

Information on toxicological effects

Symptoms May cause redness and tearing of the eyes. Coughing and/ or wheezing. May cause skin irritation. Vapors may cause drowsiness and dizziness.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization Based on available data, the classification criteria are not met.
Germ cell mutagenicity Based on available data, the classification criteria are not met.
Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Asphalt 8052-42-4	-	Group 2B	-	X
Cellulose 9004-34-6	-	Group 1	Known	X

ACGIH (American Conference of Governmental Industrial Hygienists)
 A2 - Suspected Human Carcinogen
 IARC (International Agency for Research on Cancer)
 Group 1 - Carcinogenic to Humans
 Group 2B - Possibly Carcinogenic to Humans
 Not classifiable as a human carcinogen
 NTP (National Toxicology Program)
 Known - Known Carcinogen
 Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen
 OSHA (Occupational Safety and Health Administration of the US Department of Labor)
 X - Present

Reproductive toxicity Based on available data, the classification criteria are not met.
STOT - single exposure Target Organs. Respiratory system. Eyes. Skin. Central nervous system.
STOT - repeated exposure Based on available data, the classification criteria are not met.
Chronic toxicity May cause adverse effects on the bone marrow and blood-forming system.
Target Organ Effects Eyes, Respiratory system, Skin, blood, Central nervous system, kidney.
Aspiration hazard Based on available data, the classification criteria are not met.

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 5,252.00 mg/kg
 ATEmix (dermal) 2,573.00 mg/kg
 ATEmix (inhalation-dust/mist) 67.40 mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic life with long lasting effects

65.68642 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

Persistence and degradability

No information available.

Bioaccumulation

Chemical Name	Partition coefficient
Asphalt 8052-42-4	6
Benzene, 1,2,4-trimethyl- 95-63-6	3.63

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging Do not reuse container.

US EPA Waste Number D001

14. TRANSPORT INFORMATION

DOT Not regulated (If shipped in NON BULK packaging by ground transport)

TDG Not regulated (If shipped in NON BULK packaging by ground transport)

IATA

UN/ID no UN1999
Proper shipping name Tars, liquid
Hazard Class 3
Packing Group III
ERG Code 3L
Special Provisions A3
Description UN1999, Tars, liquid, 3, III

IMDG

Non-regulated per 2.3.2.5
UN/ID no UN1999
Proper shipping name Tars, liquid
Hazard Class 3
Packing Group III

EmS-No F-E, S-E
Special Provisions 955
Description UN1999, Tars, liquid, 3, III, (42°C c.c.)

15. REGULATORY INFORMATION

International Inventories

TSCA Complies
DSL/NDSL Complies
EINECS/ELINCS Complies
IECSC Complies
KECL Complies
PICCS Complies
AICS Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	SARA 313 - Threshold Values %
Benzene, 1,2,4-trimethyl- - 95-63-6	1.0

SARA 311/312 Hazard Categories

Acute health hazard Yes
Chronic Health Hazard No
Fire hazard Yes
Sudden release of pressure hazard No
Reactive Hazard No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals

Chemical Name	California Proposition 65
Cellulose - 9004-34-6	Carcinogen
Quartz - 14808-60-7	Carcinogen
Cumene - 98-82-8	Carcinogen

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Asphalt 8052-42-4	X	X	X
Benzene, 1,2,4-trimethyl- 95-63-6	X	X	X
Cellulose 9004-34-6	X	X	X
Quartz 14808-60-7	X	X	X
Xylenes (o-, m-, p- isomers) 1330-20-7	X	X	X
Diethylbenzenes 25340-17-4	X	-	-
Cumene 98-82-8	X	X	X
1,3,5-Trimethylbenzene 108-67-8	-	X	-
Zinc, bis(dibutylcarbamodithioato-S,S)-, (T-4)- 136-23-2	X	-	X
Ethanol, 2-[(2-aminoethyl)amino]- 111-41-1	X	X	X

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

NFPA	Health hazards 2	Flammability 2	Instability 0	Physical and Chemical Properties -
HMIS	Health hazards 2	Flammability 2	Physical hazards 0	Personal protection X

Issue Date 22-Nov-2015

Revision Date 10-Jul-2016

Revision Note

No information available

Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet

SECTION 6 – TOXICOLOGICAL PROPERTIES

ROUTE OF ENTRY

SKIN CONTACT SKIN ABSORPTION EYE CONTACT INHALATION ACUTE INHALATION CHRONIC INGESTION

EFFECTS OF ACUTE EXPOSURE TO MATERIAL

Causes eye irritation. Ingestion can cause gastrointestinal irritation, vomiting, diarrhea.

EFFECTS OF CHRONIC EXPOSURE TO MATERIAL

None Known

LD₅₀ OF MATERIAL
SPECIFY SPECIES AND ROUTE

Not Available

LC₅₀ OF MATERIAL
SPECIFY SPECIES

Not Available

EXPOSURE LIMIT OF MATERIAL
ACGIH for: **Isopropanol 400 ppm**

IRRITANCY OF MATERIAL

Irritant to eyes

SENSITIZING CAPABILITY
OF MATERIAL

Not Available

CARCINOGENICITY OF
MATERIAL

None

REPRODUCTIVE EFFECTS OF MATERIAL

None

SYNERGESTIC MATERIALS

None Known

SECTION 7 – PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT

Gloves and eye protection

GLOVES (SPECIFY)

Rubber, Neoprene, Plastic

RESPIRATORY (SPECIFY)

None

EYE (SPECIFY)

Goggles

FOOTWEAR (SPECIFY)

None

CLOTHING (SPECIFY)

None

OTHER (SPECIFY)

None

ENGINEERING CONTROLS (SPECIFY E.G. VENTILATION ENCLOSED PROCESS)

None

LEAK AND SPILL PROCEDURE **Ventilate area. Remove all sources of ignition. Soak up spill with oil absorbant. Remove all residual material by scrubbing with detergent to prevent creation of slippery surfaces.**

WASTE DISPOSAL **Discard used oil absorbant in proper receptacle for landfill. Do not puncture or incinerate containers. Give to a disposal company equipped to safely handle and dispose of pressurized containers. Follow all government disposal regulations.**

HANDLING PROCEDURES AND EQUIPMENT **Avoid contact with eyes. Wear rubber gloves and eye protection. Wash thoroughly after handling. Do not spray on food or food stuffs.**

STORAGE REQUIREMENTS **Contents under pressure. Do not store where temperatures exceed 120°F (49°C).**

KEEP OUT OF THE REACH OF CHILDREN.

SPECIAL SHIPPING INFORMATION

Consumer Commodity

SECTION 8 – FIRST AID MEASURES

EYES: Immediately flush with plenty of water for at least 15 minutes. Seek prompt medical attention.

SKIN: Flush with water.

INGESTION: Do not induce vomiting. Drink large quantities of water. Call a physician.

SOURCES USED

Canadian Centre for Occupational Health and Safety, Vendor Material Safety Data Sheets

ADDITIONAL INFORMATION

For industrial and institutional use only. Read and follow all label directions and precautions. Do not mix with other chemicals.

SECTION 9 – PREPARATION DATE OF THE MSDS

PREPARED BY

**A, D2B
Cantol WHMIS Group**

PHONE NUMBER

(905) 475-6141

DATE

May 1, 2004

1. PRODUCT AND COMPANY IDENTIFICATION**Product Name:** TIME MIST TIME WICK REFILL - ALL FRAGRANCES**Manufactured by:** Waterbury Companies, Inc.
P.O. Box 640
Independence, LA 70443**24-Hour Emergency Contact:**
800-424-9300 or 703-527-3887
(CHEMTREC)**2. COMPOSITION/INFORMATION ON INGREDIENTS***Hazardous components greater than 1.0% (0.1% if carcinogen or suspected carcinogen)*

Component	CAS#	OSHA PEL	ACGIH TLV	Other Limits	% bywt.
Perfume Oils-Supplier Trade Secret	N/A	N.E.	N.E.	N.E.	85-100

3. HAZARDS IDENTIFICATIONCaution! Combustible Liquid!
Keep out of the reach of children. Read Label.**Potential Health Effects:***Routes of Entry:* Inhalation: Yes Ingestion: Yes Skin: Yes*Health Hazards:* Direct contact with eye or skin may cause irritation. Breathing concentrated vapors may cause respiratory irritation. Concentration of odor may limit exposure.*Signs/symptoms of overexposure:* Headaches, nausea, skin or eye irritation, dermatitis.*Medical conditions aggravated by exposure:* Skin contact may aggravate an existing dermatitis.**NFPA Hazard Ratings** **Fire:** 2 **Health:** 1 **Reactivity:** 0*NFPA 704 Ratings are subject to interpretation and are only intended for general identification of the level of the specific hazard. All information must be considered for proper safe handling of the material.***4. FIRST AID MEASURES****EYES:** Immediately flush eyes with large quantities of water for at least 15 minutes. Remove contact lenses after first 5 minutes. Call physician if irritation persists.**INHALATION:** Remove to fresh air. If breathing has stopped or is irregular, administer artificial respiration and oxygen. Seek medical attention.**SKIN:** Wash with soap and water, flush with large quantities of water. Keep contaminated clothing away from skin.**INGESTION:** If swallowed, immediately dilute with two 8 ounce glasses of water or milk. Never give anything by mouth to an unconscious person. Contact physician or a poison control center immediately and have label with you when calling.**5. FIRE FIGHTING MEASURES***Extinguishing Media:* CO2, dry chemical, or foam*Fire Fighting Procedures:* Self contained air supply suggested.*Unusual Fire and Explosion Hazards:* None known**6. ACCIDENTAL RELEASE MEASURES**

Wipe up material immediately and wash affected area with soap and water. Dispose of unusable concentrate in accordance with all Local, State, and Federal regulations.

7. HANDLING AND STORAGE

Avoid skin and eye contact.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION*Protective Gloves:* Not required - avoid contact with skin.*Eye Protection:* Not required - avoid contact with eyes.*Respiratory Protection:* Not required.*Ventilation: Local:* Not required.*Mechanical:* Not required.*Other protective equipment:* None required.*Protective Work/Hygiene Practices:* Wash hands after handling product.**9. PHYSICAL AND CHEMICAL PROPERTIES***Specific Gravity (H2O=1):* 0.9 *Flashpoint:* >145 deg F. *LEL:* N.E.*Vapor Pressure (mmHg):* N.E. *Boiling Point:* N/A *Melting Point:* N/A *UEL:* N.E.*Solubility:* Insoluble *Appearance/Odor:* Clear liquid with characteristic odor. Depending on fragrance, may be colored.**10. STABILITY AND REACTIVITY***Conditions to Avoid:* Open flames and very hot surfaces.*Incompatible Materials:* Strong acids, bases and oxidizing agents*Hazardous Decomposition By-products:* Carbon monoxide and unidentified organic compounds may be formed during combustion.

Hazardous Polymerization Conditions: None known

11. TOXICOLOGICAL INFORMATION

This product contains no chemicals that are listed on the NTP, IARC, or OSHA carcinogen lists. Any further information on the toxicology of the material can be obtained by contacting the manufacturer.

12. ECOLOGICAL INFORMATION

Please call the manufacturer for questions concerning the ecological effects of this product and its constituents.

13. DISPOSAL CONSIDERATIONS

If empty: Do not reuse this container. Place in trash or offer for recycling if available. If partly filled: Call your local solid waste agency or 1-800-CLEANUP for disposal instructions. Never place unused product down any indoor or outdoor drain.

14. TRANSPORT INFORMATION

	<i>Status</i>	<i>Shipping Name</i>	<i>Class</i>	<i>ID Number</i>	<i>Pack Grp</i>
DOT (USA):	Not Regulated	Deodorants or disinfectants, n.o.s.	N/A	N/A	N/A
IATA (Air):	Not Regulated	N/A	N/A	N/A	N/A
IMDG (Vessel):	Not Regulated	N/A	N/A	N/A	N/A
<i>National Motor Freight Classification and LTL Class:</i>		57100 SUB 2-CLASS 85			

15. REGULATORY INFORMATION

SARA Title III Section 312: When completing Tier II reports, the following information should be used.

Note: See state and local regulations for specifics on reporting requirements for your facility.

This product should be described as: PURE: N MIXTURE: Y SOLID: Y LIQUID: Y GAS: N
Physical Hazards: FIRE: N PRESSURE: N REACTIVITY: N *Health Hazards:* IMMEDIATE: Y DELAYED: N

16. OTHER INFORMATION

Product Sales Information: 800-845-3495

MSDS Information: 985-878-6751

Revision Notes: Review of MSDS

N/A = Not Applicable N.E. = Not Established WATCO PART #: 38MS676100TM MSDS Prepared by: T.Faust

This Information is provided in good faith, but no warranty, expressed or implied, is made. The manufacturer believes that it is accurate and to the best of its knowledge, and relates only to the specific material designated herein.