

# SAFETY DATA SHEET

## 1. Identification of the substance/mixture and of the company

### 1.1 Product identifier

**Product Name: Grime-Away™  
Multi-Purpose Cleaner Wipes**

**Product ID numbers:** HTC-D72, HTC-1, HTC-1B, HTC-D300

### 1.2 Relevant identified uses of the mixture and uses advised against

**Identified uses:** Hand and tool cleaning

**List of advices against:** Not applicable.

### 1.3 Details of the supplier of the safety data sheet

**Supplier/Manufacturer:**

**American Polywater Corporation**

11222 - 60th Street North

Stillwater, MN 55082 USA

Tel: 1-651-430-2270

Email: sds@polywater.com

### 1.4 Emergency telephone numbers

INFOTRAC: 1-800-535-5053 (USA) 1-352-323-3500 (INT'L)

## 2. Hazards Identification

### 2.1 Classification of the substance or mixture

**Classification according to USA OSHA 29 CFR 1910.1200 (2012) and Canada HPR (SOR/2015-17; WHMIS 2015).**

Skin Sens 1 H317

Skin Irrit 3 H316

Eye Irrit 2 H320

### 2.2 Label elements

This product is intended for consumer use and is labeled according to CPSC guidelines and not to GHS guidelines listed below. It is safe for consumers and other users under normal and reasonably foreseeable use. The SDS contains valuable information for industrial workplace conditions.

**Contains:** Petroleum distillates, hydrotreated light; d-Limonene; Ethoxylated alcohols



**Pictograms:**

**Signal word:** Warning

**Hazard Statements:**

H317 May cause allergic skin reaction.

H316 Causes mild skin irritation.

H320 Causes eye irritation.

**Precautionary Statements:**

P264 Wash hands thoroughly after handling.

P280 Wear protective gloves.

P302 + P352 IF ON SKIN: Wash with plenty of water.

P333 + P313 If skin irritation or rash occurs: Get medical attention

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 attention.

P501

Dispose of contents/container in accordance with local and national regulations.

**2.3 Other hazards:**

No information available.

**3. Composition/Information on Ingredients**

<u>Component</u>	<u>CAS #</u>	<u>EC #</u>	<u>Wt. %</u>
Petroleum distillates, hydrotreated light	64742-47-8	265-149-8	< 5
d-Limonene	5989-27-5	227-813-5	< 5
Ethoxylated alcohols	68439-46-3	500-446-0	< 3

This product contains no reportable hazardous components under OSHA 29 CFR 1910, 1200 Canada and European Regulation (EC) No 1272/2008.

**4. First Aid Measures**

**4.1 Description of first aid measures**

**Eye Contact:** If eye irritation develops, flush eyes with clean water. If irritation persists, seek medical attention.

**Skin Contact:** Material designed to be gentle on skin. If rash or allergic reaction develops, remove contaminated clothing and flush skin thoroughly with water. If irritation occurs, seek medical attention.

**Inhalation (Breathing):** Not a likely exposure route. Saturated towel package minimizes exposure.

**Ingestion (Swallowing):** Not a likely exposure route. Rinse mouth. If discomfort continues, seek medical attention.

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

Refer to Section 11 for more information.

**4.3 Indication of immediate medical attention and special treatment needed.**

No information available.

**5. Firefighting Measures**

**5.1 Extinguishing media:**

Carbon dioxide, water fog, dry chemical or foam.

**5.2 Special hazards arising from the substance or mixture**

**Hazardous decomposition and by-products:**

Burning generates CO, CO<sub>2</sub> and smoke. Smoke may be acrid and fumes irritating.

**5.3 Advice for firefighters**

Wear full protective clothing, including self-contained, positive pressure or pressure-demand breathing apparatus. Use water spray to cool fire exposed containers.

**6. Accidental Release Measures**

**6.1 Personal precautions, protective equipment and emergency procedures:**

Keep away from heat/sparks/open flames/hot surfaces. No smoking. Limited spill hazard with saturated towel package.

**6.2 Environmental precautions:**

Avoid release to the environment.

**6.3 Methods materials for containment and cleaning up:**

Collect towel and absorb any excess material with sand or absorbents.

**6.4 Reference to other sections:**

Refer to Sections 4, 5, 8, and 13 for more information.

**7. Handling and Storage**

**7.1 Precautions for safe handling**

Keep containers tightly closed. Keep containers cool and dry.

**7.2 Conditions for safe storage, including incompatibilities**

Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store away from acids and oxidizing agents.

**7.3 Specific end uses**

See product flyer for further information.

**8. Exposure Controls / Personal Protection**

**8.1 Control parameters**

**Exposure limits and recommendations:**

**Petroleum Distillates, hydrotreated light (64742-47-8)**

Country/Source	Long-term exposure limit – 8 hr. TWA	Short-term exposure limit – 15 min
Manufacturer, RCP* TWA	1200 mg/m <sup>3</sup>	--
USA, ACGIH TWA	Not established	Not established
USA, OSHA PEL	2000 mg/m <sup>3</sup> , 500 ppm (as petroleum distillates (naphtha))	--
British Columbia	200 mg/m <sup>3</sup>	--
Alberta, Quebec, Yukon, Saskatchewan, Ontario*	Not established	--

**D-Limonene (5989-27-5)**

Country/Source	Long-term exposure limit – 8 hr. TWA	Short-term exposure limit – 15 min
USA ACGIH TWA	Not established	Not established
USA OSHA PEL	Not established	Not established
Alberta, Quebec, Yukon, British Columbia, Saskatchewan, Ontario*	Not established	Not established

\* reciprocal calculation procedure for total hydrocarbons

\*\* Manitoba, Newfoundland and Labrador, Nova Scotia, and Prince Edward Island are all based on the current ACGIH TLVs. New Brunswick is based on an older version ACGIH. Nunavet and Northwest Territories are based heavily on current ACGIH TLVs.

**8.2 Exposure controls**

**Respiratory protection:**

Normal ventilation is adequate.

**Protective gloves:**

For people with pre-existing skin conditions such as dermatitis the use of impermeable gloves is recommended because this and other oil/grease effective cleaners may adversely affect the skin. For repeated or prolonged skin contact, the use of impermeable gloves is recommended to prevent drying and possible irritation.

**Eye protection:**

Solvent is unlikely to splash eye.

**Other protective equipment:**

It is suggested that a source of clean water be available in work area for flushing eyes and skin. Impervious clothing should be worn as needed.

**9. Physical and Chemical****9.1 Information of basic physical and chemical properties (bulk liquid)**

<b>Appearance:</b>	Milky-white liquid with light citrus scent.
<b>Odor threshold:</b>	Not available
<b>pH:</b>	Neutral
<b>Freezing point:</b>	Not available
<b>Boiling point:</b>	212°F (100°C) Initial
<b>Flash point:</b>	192°F (89°C), Closed Cup (PMCC)
<b>Evaporation rate:</b>	<0.06 (n-butyl acetate = 1)
<b>Flammability (solid, gas):</b>	Not applicable to liquids
<b>Upper/lower flammability or explosive limits:</b>	Not available
<b>Vapor pressure:</b>	10.5 mm Hg @ 20°C
<b>Vapor density (Air = 1):</b>	Not available
<b>Specific gravity (H<sub>2</sub>O = 1):</b>	0.98
<b>Solubility in water:</b>	Dilutes emulsion
<b>Partition coefficient: n-octanol/water:</b>	Not available
<b>Auto-ignition temperature:</b>	Not available
<b>Decomposition temperature:</b>	Not available
<b>Viscosity:</b>	Not available

**9.2 Other Information**

<b>Volatiles (Weight %):</b>	>95%
<b>VOC Content:</b>	98 g/l

**10. Stability and Reactivity****10.1 Reactivity:**

See remaining headings in Section 10.

**10.2 Chemical stability:**

Stable

**10.3 Possibility of hazardous reactions:**

None known.

**10.4 Conditions to avoid:**

Avoid heat, flame, and sparks.

**10.5 Incompatible materials :**

Strong oxidizing agents.

**10.6 Hazardous decomposition products:**

Carbon dioxide, carbon monoxide.

**11. Toxicological Information****11.1 Information on toxicological effects:****Acute toxicity****Eye contact:**

Direct eye contact may cause eye irritation. This irritation is minimal and expected to be transient.

**Skin contact:**

Material designed to be gentle on skin. However, prolonged or repeated skin exposure can remove oils,

causing redness, drying and cracking. Persons with pre-existing skin disorders may be more susceptible to skin irritation from this material.

**Irritation and Sensitization Potential:**

Product may be irritating to skin and eyes. It may cause an allergic skin reaction.

**Inhalation (Breathing):**

Not a likely exposure route. Saturated towel package minimizes exposure.

**Ingestion:**

Not a likely exposure route.

**Toxicity to Animals:**

Petroleum distillates, hydrotreated light:	LD <sub>50</sub> (oral rat) >5000 mg/kg
	LD <sub>50</sub> (dermal rabbit) >2000 mg/kg
	LC <sub>50</sub> (inhl rat) >4.3mg/L, 4 hours
d-Limonene:	LD <sub>50</sub> (oral rat) >5000 mg/kg
	LD <sub>50</sub> (dermal rabbit) 5000 mg/kg
	RD <sub>50</sub> 1000 ppm

**Chronic Exposure:**

<b>Reproductive Toxicity:</b>	Not available.
<b>Mutagenicity:</b>	Not available.
<b>Teratogenicity:</b>	Not available.
<b>Specific Target Organ Toxicity (STOT)</b>	No end point data.
<b>Toxicologically Synergistic Products:</b>	Not available.
<b>Carcinogenic Status:</b>	This substance has not been identified as a carcinogen or probable carcinogen by NTP, IARC, or OSHA, nor have any of its components.

**12. Ecological Information**

**12.1 Toxicity:**

<b>Ecotoxicity:</b>	No information available.
<b>Aquatic Toxicity:</b>	No information available.

**12.2 Persistence and degradability:** Expected to be biodegradable.

**12.3 Bioaccumulation potential:** No information available

**12.4 Mobility in soil:** No information available.

**12.5 Results of PBT and vPvB Assessment:** This product is not, nor does it contain a substance that is a PBT or vPvB.

**12.6 Other adverse effects:** None known.

**13. Disposal Considerations**

Dispose of product in accordance with National and Local Regulations.

**14. Transport Information**

<b>UN Number:</b>	Not Listed
<b>UN Proper shipping name:</b>	Not Applicable
<b>Transport hazard class(es):</b>	Not Applicable
<b>Packing group:</b>	Not Applicable
<b>Environmental hazards:</b>	None known
<b>Special precautions:</b>	None known

TDG: Not Regulated  
 ICAO/IATA-DGR: Not Regulated  
 IMDG: Not Regulated  
 ADR/RID: Not Regulated

**15. Regulatory Information**

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

**USA Federal and State**

All components are listed on the TSCA inventory.

<b>Hazard Categories for SARA Section 311/312 Reporting</b>	<u>Acute</u> No	<u>Chronic</u> No	<u>Fire</u> No	<u>Pressure</u> No	<u>Reactive</u> No
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<b><u>Components</u></b>	<b><u>CERCLA/SARA Sec 302 Hazardous Substance RQ</u></b>	<b><u>EHS TPQ</u></b>	<b><u>SARA Sec. 313 Toxic Release</u></b>
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Components are not affected by these Superfund regulations.

**NFPA Ratings:**  
 Health: 1  
 Fire: 0  
 Reactivity: 0

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel during spill, fire or similar emergencies. Hazard ratings are based on physical and toxic properties of combustion or decomposition.

**California Proposition 65**

WARNING: This product can expose you to benzene, ethylbenzene, cumene, and naphthalene which are known to the state of California to cause cancer, and toluene and benzene which are known to the State of California to cause birth defects and/or other reproductive harm. For more information, go to [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov).

**European Union**

Product complies with the communication requirements of REACH Regulation (EC) No. 1907/2006. All components are listed on the European Inventory of Existing Chemical Substances (EINECS). Contains no substance on the REACH candidate list  $\geq 0.1\%$  SCL. Does not contain notified substances from the ELINCS List, Directive 92/32/EEC. Contains no REACH substances with Annex XVII restrictions.

**Canada**

All components are listed on the DSL inventory.  
 This product has been classified according to the hazard criteria of the.

**Australia**

All components are listed on the AICS.  
 Hazardous according to criteria of NOHSC Australia.

**15.2 Chemical Safety Assessment**

No chemical safety assessment has been carried out for the mixture by the supplier.

**16. Other Information**

**Abbreviations and acronyms:**

OSHA = Occupational Safety and Health Administration  
 CLP = Classification, Labeling and Packaging Regulation  
 STOT = Specific Target Organ Toxicity  
 LD<sub>50</sub> = Median Lethal Dose  
 DNEL = Derived No Effect Level  
 ACGIH = American Conference of Governmental Industrial Hygienists  
 TSCA = Toxic Substances Control Act (USA)

DSL = Domestic Substances List (Canada)

AICS = Australian Inventory of Chemical Substances

**Mixture classification according to Regulation (EC) No 1272/2008:**

H317 May cause allergic skin reaction.

H316 Causes mild skin irritation.

H320 Causes eye irritation.

**Classification Procedure**

Calculation method.

Calculation method.

Calculation method.

**Revision Date:** September 21, 2018

**Revision Number:** 6 NA

**Supersedes:** August 4, 2017

**Indication of Changes:** Section 3, 15 updated; format updates and additional California Proposition 65 information. Written in accordance with the provisions of OSHA 1910.1200 App D (2012) and Canada HPR (SOR/2015-17) (WHMIS 2015). (GHS format)

The information and recommendations contained herein are believed to be reliable. However, the supplier makes no warranties, express or implied, concerning the use of this product. The buyer must determine conditions of safe usage and assumes all risk and liability in handling this product.

# SAFETY DATA SHEET

## 1. Identification of the substance/mixture and of the company

### 1.1 Product identifier

**Product Name:**  
**Type HP™ Cleaner/Degreaser**

**Product ID numbers:** HP-XXX (Where XXX is the package code.)

### 1.2 Relevant identified uses of the mixture and uses advised against

**Identified uses:** Electrical cleaning

**List of advices against:** Not applicable.

### 1.3 Details of the supplier of the safety data sheet

**Supplier/Manufacturer:**

**American Polywater Corporation**

11222 - 60th Street North

Stillwater, MN 55082 USA

Tel: 1-651-430-2270

Email: sds@polywater.com

### 1.4 Emergency telephone numbers

INFOTRAC: 1-800-535-5053 (USA) 1-352-323-3500 (INT'L)

## 2. Hazards Identification

### 2.1 Classification of the substance or mixture

**Classification according to USA OSHA 29 CFR 1910.1200 (2012) and Canada HPR (SOR/2015-17; WHMIS 2015).**

Asp Tox 1 H304

Skin Sens 1 H317

Flam Liq 4 H227

### 2.2 Label elements

**Contains:** Petroleum distillates, hydrotreated light; d-Limonene



**Pictograms:**

**Signal word:** Danger

**Hazard Statements:**

H227 Combustible liquid

H304 May be fatal if swallowed and enters airways

H317 May cause an allergic skin reaction.

**Precautionary Statements:**

P210 Keep away from flames and hot surfaces. No smoking.

P261 Avoid breathing fumes.

P280 Wear protective gloves.

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor.



- P331 Do NOT induce vomiting.
- P302 + P352 IF ON SKIN: Wash with plenty of water.
- P333 + P313 If skin irritation or rash occurs: Get medical advice.
- P363 Wash contaminated clothing before reuse.
- P370 + P378 In case of fire use media other than water to extinguish.
- P403 + P235 Store in a secure, well-ventilated place. Keep cool.
- P501 Dispose of contents/container in accordance with local and national regulations.

**2.3 Other hazards:** No information available.

**3. Composition/Information on Ingredients**

<b>Component</b>	<b>CAS #</b>	<b>EC #</b>	<b>Wt. %</b>
Petroleum distillates, hydrotreated light	64742-47-8	265-149-8	90 - 100
d-Limonene	5989-27-5	227-813-5	< 10

**4. First Aid Measures**

**4.1 Description of first aid measures**

- Eye Contact:** If eye irritation from exposure to vapors develops, move to fresh air. Flush eyes with clean water. If irritation persists, seek medical attention. For direct eye contact, flush with large quantity of water for 15 minutes. Seek medical attention.
- Skin Contact:** Remove contaminated clothing; flush skin thoroughly with water. If irritation occurs, seek medical attention.
- Inhalation (Breathing):** If irritation of nose or throat develops, move to fresh air. If irritation persists, seek medical attention. If breathing is difficult, provide oxygen. If not breathing, give artificial respiration. Seek immediate medical attention.
- Ingestion (Swallowing):** Do not induce vomiting or give anything by mouth. If victim is drowsy or unconscious, place on the left side with head down. Do not leave victim unattended. Seek medical attention.

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

Refer to Section 11 for more information.

**4.3 Indication of immediate medical attention and special treatment needed.**

Aspiration hazard. If ingested, material may be aspirated into the lungs and cause chemical pneumonitis.

**5. Firefighting Measures**

**5.1 Extinguishing media:**

Carbon dioxide, water fog, dry chemical or foam.

**5.2 Special hazards arising from the substance or mixture**

**Hazardous decomposition and by-products:**

Burning generates CO, CO<sub>2</sub> and smoke. Smoke may be acrid and fumes irritating.

**5.3 Advice for firefighters**

Wear full protective clothing, including self-contained, positive pressure or pressure-demand breathing apparatus. Sealed container can build up pressure when exposed to high heat. Use water spray to cool fire exposed containers.

**6. Accidental Release Measures**

**6.1 Personal precautions, protective equipment and emergency procedures:**

Keep away from heat/sparks/open flames/hot surfaces. No smoking. Use only non-sparking tools to clean up the spill. For a spill in a confined space, provide mechanical ventilation to disperse or exhaust vapors. For emergency responders: use respiratory protection: half-face or full-face respirator with filter(s) for organic

vapor for spills in a confined space. Work gloves that are resistant to aromatic hydrocarbons are recommended. Chemical goggles are recommended if splashes or contact with eyes is possible. For small spills: normal antistatic work clothes are usually adequate.

**6.2 Environmental precautions:**

Avoid release to the environment. Dike the spill to prevent entry into waterways, sewers, basements or confined areas.

**6.3 Methods materials for containment and cleaning up:**

Absorb spill with sand or absorbents. Collect as much of the spilled material as possible using non-sparking tools and transfer to a container. Seal the container. Remember, adding an absorbent material does not change the toxicity or flammability hazard.

**6.4 Reference to other sections:**

Refer to Sections 4, 5, 8, and 13 for more information.

**7. Handling and Storage**

**7.1 Precautions for safe handling**

Keep away from heat/sparks/open flames/hot surfaces. No smoking. Avoid breathing vapors or 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. Wash contaminated clothing before reuse. For industrial or professional use only. Avoid contact with oxidizing agents (e.g. chlorine, chromic acid etc.)

**7.2 Conditions for safe storage, including incompatibilities**

Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store away from acids and oxidizing agents.

**7.3 Specific end uses**

See technical data sheet on this product for further information.

**8. Exposure Controls / Personal Protection**

**8.1 Control parameters**

**Exposure limits and recommendations:**

**Petroleum Distillates, hydrotreated light (64742-47-8)**

Country/Source	Long-term exposure limit – 8 hr. TWA	Short-term exposure limit – 15 min
Manufacturer, RCP* TWA	1200 mg/m <sup>3</sup>	--
USA, ACGIH TWA	Not established	Not established
USA, OSHA PEL	2000 mg/m <sup>3</sup> , 500 ppm (as petroleum distillates (naphtha))	--
British Columbia	200 mg/m <sup>3</sup>	--
Alberta, Quebec, Yukon, Saskatchewan, Ontario*	Not established	--

**D-Limonene (5989-27-5)**

Country/Source	Long-term exposure limit – 8 hr. TWA	Short-term exposure limit – 15 min
USA ACGIH TWA	Not established	Not established
USA OSHA PEL	Not established	Not established
Alberta, Quebec, Yukon, British Columbia, Saskatchewan, Ontario*	Not established	Not established

\* reciprocal calculation procedure for total hydrocarbons

\*\* Manitoba, Newfoundland and Labrador, Nova Scotia, and Prince Edward Island are all based on the current ACGIH TLVs. New Brunswick is based on an older version ACGIH. Nunavet and Northwest Territories are based heavily on current ACGIH TLVs.

**8.2 Exposure controls****Respiratory protection:**

Normal ventilation is adequate. If exposure exceeds recommended limits, respirator protection is recommended. Use a respirator or gas mask with cartridges for organic vapors (NIOSH or CE approved) with particulate pre-filter, P100 or AP2.

**Protective gloves:**

For repeated or prolonged skin contact, the use of impermeable gloves is recommended to prevent drying and possible irritation. If contact with forearms is likely wear gauntlet style gloves.

Suggested Material: Nitrile Rubber

Suggested Thickness: For short term contact (<15 minutes), splashes use 0.2 mm. For full contact use 0.4 mm

Nitrile, minimum 0.38 mm thickness or comparable protective barrier material with a high performance level for continuous contact use conditions, permeation breakthrough minimum 480 minutes in accordance with CEN standards EN 420 and EN 374.

**Eye protection:**

Safety glasses recommended.

**Other protective equipment:**

It is suggested that a source of clean water be available in work area for flushing eyes and skin. Impervious clothing should be worn as needed.

**9. Physical and Chemical****9.1 Information of basic physical and chemical properties**

<b>Appearance:</b>	Clear, colorless liquid with a very light citrus scent.
<b>Odor threshold:</b>	Not available
<b>pH:</b>	Does not apply
<b>Freezing point:</b>	<-58°F (<-50°C)
<b>Boiling point:</b>	365°F (185°C) Initial
<b>Flash point:</b>	>140°F (>60.5°C), Closed Cup (PMCC)
<b>Evaporation rate:</b>	<0.1 (n-butyl acetate = 1)
<b>Flammability (solid, gas):</b>	Not applicable to liquids
<b>Upper/lower flammability or explosive limits:</b>	LEL = 0.7% UEL = 6.1%-7.0%
<b>Vapor pressure:</b>	<1 mm Hg < 134 Pa @ 20°C
<b>Vapor density (Air = 1):</b>	> 1.0
<b>Specific gravity (H<sub>2</sub>O = 1):</b>	0.79
<b>Solubility in water:</b>	Nil
<b>Partition coefficient: n-octanol/water:</b>	Not available
<b>Auto-ignition temperature:</b>	Not available
<b>Decomposition temperature:</b>	Not available
<b>Viscosity:</b>	1.3 cSt (1.3 mm <sup>2</sup> /sec) at 20°C - 2.5 cSt (2.5 mm <sup>2</sup> /sec) at 20°C [ASTM D7042]

**9.2 Other Information**

<b>Volatiles (Weight %):</b>	100%
<b>VOC Content:</b>	790 g/l

**10. Stability and Reactivity****10.1 Reactivity:**

See remaining headings in Section 10.

**10.2 Chemical stability:**

Stable

**10.3 Possibility of hazardous reactions:**

None known.

**10.4 Conditions to avoid:**

Avoid heat, flame, and sparks.

**10.5 Incompatible materials :**

Strong oxidizing agents.

**10.6 Hazardous decomposition products:**

Carbon dioxide, carbon monoxide.

**11. Toxicological Information**

**11.1 Information on toxicological effects:**

**Acute toxicity**

**Eye contact:**

Direct eye contact may cause eye irritation. This irritation is minimal and expected to be transient.

**Skin contact:**

Prolonged or repeated skin exposure can remove oils, causing redness, drying and cracking. Persons with pre-existing skin disorders may be more susceptible to skin irritation from this material.

**Irritation and Sensitization Potential:**

Product may be irritating to skin and eyes. It may cause an allergic skin reaction.

**Inhalation (Breathing):**

Concentrated petroleum solvent vapors may cause irritation of the nose and throat. Prolonged exposure to excessively high vapor concentrations can result in central nervous system depression (e.g., drowsiness, dizziness, loss of coordination, and fatigue). Persons with impaired lung function may experience additional breathing difficulties due to the irritant properties of this material.

**Ingestion:**

Ingestion of large quantities may cause irritation of the digestive tract, nervous system depression (e.g., drowsiness, dizziness, loss of coordination, and fatigue).

**Toxicity to Animals:**

Petroleum distillates, hydrotreated light:	LD <sub>50</sub> (oral rat) >5000 mg/kg LD <sub>50</sub> (dermal rabbit) >2000 mg/kg LC <sub>50</sub> (inhl rat) >4.3mg/L, 4 hours
d-Limonene:	LD <sub>50</sub> (oral rat) >5000 mg/kg LD <sub>50</sub> (dermal rabbit) 5000 mg/kg RD <sub>50</sub> 1000 ppm

**Aspiration hazard**

May be fatal if swallowed and enters airways. Based on physico-chemical properties of the material.

**Chronic Exposure:**

**Reproductive Toxicity:** Not available.

**Mutagenicity:** Not available.

**Teratogenicity:** Not available.

**Specific Target Organ Toxicity (STOT)** No end point data.

**Toxicologically Synergistic Products:** Not available.

**Carcinogenic Status:** This substance has not been identified as a carcinogen or probable carcinogen by NTP, IARC, or OSHA, nor have any of its components.

**12. Ecological Information**

**12.1 Toxicity:**

**Ecotoxicity:** No information available.  
**Aquatic Toxicity:** No data available. May be toxic to aquatic life with long lasting effects.

**12.2 Persistence and degradability:** Expected to be biodegradable.

**12.3 Bioaccumulation potential:** No information available

**12.4 Mobility in soil:** No information available.

**12.5 Results of PBT and vPvB Assessment:** This product is not, nor does it contain a substance that is a PBT or vPvB.

**12.6 Other adverse effects:** None known.

**13. Disposal Considerations**

Dispose of product in accordance with National and Local Regulations.

**14. Transport Information**

**UN Number:** Not Listed  
**UN Proper shipping name:** Not Applicable  
**Transport hazard class(es):** Not Applicable  
**Packing group:** Not Applicable  
**Environmental hazards:** None known  
**Special precautions:** None known  
**TDG:** Not Regulated  
**ICAO/IATA-DGR:** Not Regulated  
**IMDG:** Not Regulated  
**ADR/RID:** Not Regulated

**15. Regulatory Information**

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

**USA Federal and State**

All components are listed on the TSCA inventory.

<b>Hazard Categories for SARA Section 311/312 Reporting</b>	<b><u>Acute</u></b> Yes	<b><u>Chronic</u></b> No	<b><u>Fire</u></b> Yes	<b><u>Pressure</u></b> No	<b><u>Reactive</u></b> No
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<b><u>Components</u></b>	<b><u>CERCLA/SARA Sec 302 Hazardous Substance RQ</u></b>	<b><u>EHS TPQ</u></b>	<b><u>SARA Sec. 313 Toxic Release</u></b>
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Components are not affected by these Superfund regulations.

**NFPA Ratings:**

Health:	1
Fire:	2
Reactivity:	0

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel during spill, fire or similar emergencies. Hazard ratings are based on physical and toxic properties of combustion or decomposition.

**California Proposition 65**

WARNING: This product can expose you to benzene, ethylbenzene, cumene, and naphthalene which are known to the state of California to cause cancer, and toluene and benzene which are known to the State of California to cause birth defects and/or other reproductive harm. For more information, go to [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov).

**European Union**

Product complies with the communication requirements of REACH Regulation (EC) No. 1907/2006. All components are listed on the European Inventory of Existing Chemical Substances (EINECS). Contains no substance on the REACH candidate list ≥ 0.1% SCL. Does not contain notified substances from the ELINCS List, Directive 92/32/EEC. Contains no REACH substances with Annex XVII restrictions.

**Canada**

All components are listed on the DSL inventory.  
This product has been classified according to the hazard criteria of the CPR and the SDS contains all the information required by the CPR.

**Australia**

All components are listed on the AICS.  
Hazardous according to criteria of NOHSC Australia.

**15.2 Chemical Safety Assessment**

No chemical safety assessment has been carried out for the mixture by the supplier.

**16. Other Information**

**Abbreviations and acronyms:**

- OSHA = Occupational Safety and Health Administration
- CLP = Classification, Labeling and Packaging Regulation
- STOT = Specific Target Organ Toxicity
- LD<sub>50</sub> = Median Lethal Dose
- DNEL = Derived No Effect Level
- ACGIH = American Conference of Governmental Industrial Hygienists
- TSCA = Toxic Substances Control Act (USA)
- DSL = Domestic Substances List (Canada)
- AICS = Australian Inventory of Chemical Substances

**Mixture classification according to Regulation (EC) No 1272/2008:**

- H227 Combustible liquid
- H304 May be fatal if swallowed and enters airways
- H317 May cause an allergic skin reaction.

**Classification Procedure**

- Physical Testing
- Calculation method.
- Calculation method.

- Revision Date:** September 21, 2018
- Revision Number:** 6
- Supersedes:** August 29, 2016
- Locale:** --
- Indication of Changes:** Section 3, 15 updated; format updates and additional California Proposition 65 information. Written in accordance with the provisions of OSHA 1910.1200 App D (2012) and Canada HPR (SOR/2015-17) (WHMIS 2015). (GHS format)

The information and recommendations contained herein are believed to be reliable. However, the supplier makes no warranties, express or implied, concerning the use of this product. The buyer must determine conditions of safe usage and assumes all risk and liability in handling this product.



**Material Safety Data Sheet  
Sodium Bicarbonate**

For more detailed information on the hazards of this product, write to the address above. For emergency information, contact (970) 928-9866 any time.

PRODUCT IDENTIFICATION		PHYSICAL AND CHEMICAL PROPERTIES	
Brand Name	Baking Soda	State	Granular Solid
Chemical Name	Sodium Bicarbonate	Melting Point C	Loses CO2 at 270 C
Common Name	Sodium Bicarbonate	Boiling Point C	Decomposes
Formula	NaHCO <sub>3</sub>	Color	White
DOT Proper Shipping Name	Not Applicable	Odor	None
DOT Hazard Class	Not Applicable	Bulk Density, lb/cubic ft.	60
DOT I.D. Number	Not Applicable	Weight per gallon	Not applicable
Reportable Quantity (RQ)	Not Applicable	Specific Gravity @ 20 C	2.16
CAS Number	144-55-8 (of NaHCO <sub>3</sub> )	Water Solubility, % by wt. @ 20 C	8.8
		Flash Point and Method	Not applicable
		pH	Not applicable

**HAZARDOUS INGREDIENTS**

Chemical Name	Common Name	CAS Number	Hazard
Sodium Bicarbonate	Sodium Bicarbonate	144-55-8	Mild irritant to eyes and skin

**PHYSICAL HAZARD INFORMATION**

EXPLOSIVE: NO Upper Explosive Limit: Not Applicable Lower Explosive Limit: Not Applicable

PYROPHORIC: NO

FLAMMABLE: NO Flammability Class: Not Applicable

COMBUSTIBLE: NO Organic Peroxide: NO

OXIDIZER: NO Compressed Gas: NO

REACTIVITY: Normally stable in dry air. In moist air, forms sodium carbonate, an irritant.

INCOMPATIBILITIES: Keep away from acids, aluminum, and phosphorous pentoxide.

HAZARDOUS Decomposes when exposed to high heat, releasing carbon dioxide. Carbon dioxide gas is an asphyxiant and may affect respiration rate.

CONDITIONS TO AVOID: Exposure to incompatible materials and heat.

DATE OF ISSUE: January 1999

DATE REVISED: January 2003

REVISION 5

## HEALTH INFORMATION

- Precautionary Information: This product is a mild irritant to eyes and skin.
- Symptoms of Exposure: Irritation or redness of the eyes and skin.
- Restrictive Medical Conditions: Eye or skin disease and breathing or respiratory disorder will be aggravated by exposure to this chemical.

## PRIMARY ROUTE(S) OF ENTRY

Eye and skin contact, inhalation (breathing), and ingestion (swallowing).

## TOXICITY INFORMATION

Oral - rat LD<sub>50</sub> 4220 mg/kg; Oral - Infant LDLo 1260 mg/kg; Skin irritation - rabbit 30 mg/3 days, mild.

## EXPOSURE LIMITS

OSHA: Not established  
ACGIH: Not established  
Other: ACGIH: TLV-TWA for nuisance dust is 10 mg/m<sup>3</sup> total dust for 5 mg/m<sup>3</sup> respirable dust.

Not reported as a Carcinogen or Potential Carcinogen

## PRECAUTIONS FOR SAFE HANDLING AND USE

Avoid contact with eyes, skin, and clothing.  
Avoid breathing dust.  
Avoid contact with acids.  
Store in a cool, dry area.  
Wash thoroughly after handling.

## SPILL AND LEAK PROCEDURES

- Soil Release: Shovel and sweep up. Dispose of in accordance with federal, state and local regulations.
- Water Spill: Dilute and disperse with water jets, propellers or similar agitation techniques.
- Air Spill: Keep upwind. Treat impact site as appropriate for soil or water spill.
- Occupational: Shovel and sweep up and place in a container for disposal.
- RCRA Waste: Not applicable  
Number



## ENGINEERING CONTROLS AND PERSONAL PROTECTIVE EQUIPMENT

- Ventilation: Use general dilution and local exhaust ventilation techniques to meet nuisance dust exposure limit.
- Respirator: Use NIOSH/MSHA approved dust type respirator.
- Eye Protection: No special requirements.
- Gloves: No special requirements.
- Clothing: Good hygiene practices.

## EMERGENCY PROCEDURES

- Fire: This product is not flammable and does not support combustion.
- Spill or Leak: Sweep up and shovel into containers for later disposal.

## FIRST AID PROCEDURES

- Ingestion: If swallowed, do not induce vomiting. Give large quantities of water. Never give anything by mouth to an unconscious person. Call a physician.
- Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Call a physician.
- Skin Contact: Flush with plenty of water. Wash clothing before reuse. Thoroughly clean shoes before reuse.
- Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.
- Note To Physician: The chemical of exposure is sodium bicarbonate which has a pH of 8.

## ADDITIONAL INFORMATION

Maximum Dose Level for Potable Water: 200 mg/L



# SAFETY DATA SHEET

## 1. Identification

<b>Product identifier</b>	<b>Cable Clean® HF™ High Voltage Cleaner (High Flash)</b>
<b>Other means of identification</b>	
<b>Product code</b>	02170
<b>Recommended use</b>	Splice and termination cleaner for high voltage cables
<b>Recommended restrictions</b>	None known.
<b>Manufacturer/Importer/Supplier/Distributor information</b>	
<b>Manufactured or sold by:</b>	
<b>Company name</b>	CRC Industries, Inc.
<b>Address</b>	885 Louis Dr. Warminster, PA 18974 US
<b>Telephone</b>	
<b>General Information</b>	215-674-4300
<b>Technical Assistance</b>	800-521-3168
<b>Customer Service</b>	800-272-4620
<b>24-Hour Emergency (CHEMTREC)</b>	800-424-9300 (US) 703-527-3887 (International)
<b>Website</b>	www.crcindustries.com

## 2. Hazard(s) identification

<b>Physical hazards</b>	Flammable aerosols Gases under pressure	Category 1 Compressed gas
<b>Health hazards</b>	Skin corrosion/irritation Specific target organ toxicity, single exposure Aspiration hazard	Category 2 Category 3 narcotic effects Category 1
<b>Environmental hazards</b>	Not classified.	
<b>OSHA defined hazards</b>	Not classified.	

### Label elements



<b>Signal word</b>	Danger
<b>Hazard statement</b>	Extremely flammable aerosol. Contains gas under pressure; may explode if heated. May be fatal if swallowed and enters airways. Causes skin irritation. May cause drowsiness or dizziness.
<b>Precautionary statement</b>	
<b>Prevention</b>	Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Do not apply while equipment is energized. Pressurized container: Do not pierce or burn, even after use. Extinguish all flames, pilot lights and heaters. Vapors will accumulate readily and may ignite. Avoid breathing mist or vapor. Use only with adequate ventilation; maintain ventilation during use and until all vapors are gone. Open doors and windows or use other means to ensure a fresh air supply during use and while product is drying. If you experience any symptoms listed on this label, increase ventilation or leave the area. Avoid breathing gas. Wash thoroughly after handling. Wear protective gloves.
<b>Response</b>	If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. If on skin: Wash with plenty of water. If skin irritation occurs: Get medical attention. Take off contaminated clothing and wash before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell.
<b>Storage</b>	Store in a well-ventilated place. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Exposure to high temperature may cause can to burst.

<b>Disposal</b>	Dispose of contents/container in accordance with local/regional/national regulations.
<b>Hazard(s) not otherwise classified (HNOC)</b>	None known.

### 3. Composition/information on ingredients

#### Mixtures

Chemical name	Common name and synonyms	CAS number	%
Distillates (petroleum), hydrotreated light		64742-47-8	90 - 100
Carbon dioxide		124-38-9	1 - 3

Specific chemical identity and/or percentage of composition has been withheld as a trade secret.

### 4. First-aid measures

<b>Inhalation</b>	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.
<b>Skin contact</b>	Remove contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
<b>Eye contact</b>	Rinse with water. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Aspiration may cause pulmonary edema and pneumonitis.
<b>Most important symptoms/effects, acute and delayed</b>	Diarrhea. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Irritation of eyes and mucous membranes. Irritation of nose and throat. Skin irritation. May cause redness and pain.
<b>Indication of immediate medical attention and special treatment needed</b>	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
<b>General information</b>	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

### 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Powder. Alcohol resistant foam. Dry chemicals. Carbon dioxide (CO2).
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>Specific hazards arising from the chemical</b>	Contents under pressure. Pressurized container may explode when exposed to heat or flame.
<b>Special protective equipment and precautions for firefighters</b>	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
<b>Fire-fighting equipment/instructions</b>	In case of fire: Stop leak if safe to do so. Move containers from fire area if you can do so without risk. Cool containers exposed to heat with water spray and remove container, if no risk is involved. Containers should be cooled with water to prevent vapor pressure build up.
<b>General fire hazards</b>	Extremely flammable aerosol.

### 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapor. Avoid breathing gas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
<b>Methods and materials for containment and cleaning up</b>	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. The product is immiscible with water and will spread on the water surface. Stop the flow of material, if this is without risk. Prevent entry into waterways, sewer, basements or confined areas. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.
<b>Environmental precautions</b>	Avoid discharge into drains, water courses or onto the ground.

## 7. Handling and storage

### Precautions for safe handling

Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Use caution around energized equipment. The metal container will conduct electricity if it contacts a live source. This may result in injury to the user from electrical shock and/or flash fire. Avoid breathing mist or vapor. Avoid breathing gas. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated contact with skin. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices. For product usage instructions, please see the product label.

### Conditions for safe storage, including any incompatibilities

Level 3 Aerosol.

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

### Occupational exposure limits

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

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	PEL	9000 mg/m <sup>3</sup>
		5000 ppm

#### US. ACGIH Threshold Limit Values

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	STEL	30000 ppm
	TWA	5000 ppm

#### US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	STEL	54000 mg/m <sup>3</sup>
		30000 ppm
	TWA	9000 mg/m <sup>3</sup>
Distillates (petroleum), hydrotreated light (CAS 64742-47-8)		5000 ppm
	TWA	100 mg/m <sup>3</sup>

### 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. Eye wash facilities and emergency shower must be available when handling this product.

### Individual protection measures, such as personal protective equipment

#### Eye/face protection

Not available.

#### Skin protection

##### Hand protection

Wear protective gloves such as: Nitrile. Neoprene.

##### Other

Wear appropriate chemical resistant clothing.

#### Respiratory protection

Air monitoring is needed to determine actual employee exposure levels.

#### Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

### General hygiene considerations

When using, do not eat, drink or smoke. 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

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### Appearance

<b>Physical state</b>	Liquid.
<b>Form</b>	Aerosol.
<b>Color</b>	Clear.
<b>Odor</b>	Mild hydrocarbon.
<b>Odor threshold</b>	Not available.
<b>pH</b>	Not available.
<b>Melting point/freezing point</b>	-72.4 °F (-58 °C) estimated
<b>Initial boiling point and boiling range</b>	430 °F (221.1 °C) estimated
<b>Flash point</b>	204 °F (95.6 °C) Tag Closed Cup
<b>Evaporation rate</b>	Slow.
<b>Flammability (solid, gas)</b>	Not available.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	0.6 % estimated
<b>Flammability limit - upper (%)</b>	5.5 % estimated
<b>Vapor pressure</b>	1624.9 hPa estimated
<b>Vapor density</b>	4.5 (air = 1)
<b>Relative density</b>	0.82 estimated
<b>Solubility (water)</b>	Not available.
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	456.8 °F (236 °C) estimated
<b>Decomposition temperature</b>	Not available.
<b>Viscosity (kinematic)</b>	Not available.
<b>Percent volatile</b>	97.2 % estimated

## 10. Stability and reactivity

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<b>Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>Conditions to avoid</b>	Heat, flames and sparks. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
<b>Incompatible materials</b>	Strong oxidizing agents.
<b>Hazardous decomposition products</b>	Carbon oxides.

## 11. Toxicological information

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### Information on likely routes of exposure

<b>Ingestion</b>	May be fatal if swallowed and enters airways.
<b>Inhalation</b>	Prolonged inhalation may be harmful. May cause drowsiness and dizziness. Headache. Nausea, vomiting.
<b>Skin contact</b>	Causes skin irritation.
<b>Eye contact</b>	Direct contact with eyes may cause temporary irritation.
<b>Symptoms related to the physical, chemical and toxicological characteristics</b>	Diarrhea. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Irritation of nose and throat. Irritation of eyes and mucous membranes. Skin irritation. May cause redness and pain.

### Information on toxicological effects

<b>Acute toxicity</b>	May be fatal if swallowed and enters airways. Narcotic effects.
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Product	Species	Test Results
Cable Clean® HF™ High Voltage Cleaner (High Flash)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	2058.4412 mg/kg estimated
<i>Inhalation</i>		
LC50	Rat	5.3519 mg/l, 4 Hours estimated
<i>Oral</i>		
LD50	Rat	5146.103 mg/kg estimated

\* Estimates for product may be based on additional component data not shown.

<b>Skin corrosion/irritation</b>	Causes skin irritation.
<b>Serious eye damage/eye irritation</b>	Direct contact with eyes may cause temporary irritation.
<b>Respiratory sensitization</b>	Not available.
<b>Skin sensitization</b>	This product is not expected to cause skin sensitization.
<b>Germ cell mutagenicity</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
<b>Carcinogenicity</b>	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
<b>Reproductive toxicity</b>	This product is not expected to cause reproductive or developmental effects.
<b>Specific target organ toxicity - single exposure</b>	May cause drowsiness and dizziness.
<b>Specific target organ toxicity - repeated exposure</b>	Not classified.
<b>Aspiration hazard</b>	May be fatal if swallowed and enters airways.
<b>Chronic effects</b>	Prolonged inhalation may be harmful.

## 12. Ecological information

**Ecotoxicity** The product is 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.

Product	Species	Test Results
Cable Clean® HF™ High Voltage Cleaner (High Flash)		
<b>Aquatic</b>		
<i>Acute</i>		
Fish	LC50	Fish 2.2643 mg/l, 96 hours estimated
Components	Species	Test Results
Distillates (petroleum), hydrotreated light (CAS 64742-47-8)		
<b>Aquatic</b>		
<i>Acute</i>		
Fish	LC50	Bluegill (Lepomis macrochirus) 2.2 mg/l, 96 hours

\* Estimates for product may be based on additional component data not shown.

<b>Persistence and degradability</b>	Not available.
<b>Bioaccumulative potential</b>	Not available.
<b>Mobility in soil</b>	No data available.
<b>Other adverse effects</b>	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

<b>Disposal of waste from residues / unused products</b>	The dispensed liquid product is not a RCRA hazardous waste (See 40 CFR Part 261.20 - 261.33). Empty container can be recycled. Consult authorities before disposal. Contents under pressure. Do not puncture, incinerate or crush. Dispose in accordance with all applicable regulations.
<b>Hazardous waste code</b>	Not regulated.

**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

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**DOT**

<b>UN number</b>	UN1950
<b>UN proper shipping name</b>	Aerosols, flammable, Limited Quantity
<b>Transport hazard class(es)</b>	
<b>Class</b>	2.1
<b>Subsidiary risk</b>	-
<b>Label(s)</b>	2.1
<b>Packing group</b>	Not applicable.
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.
<b>Special provisions</b>	N82
<b>Packaging exceptions</b>	306
<b>Packaging non bulk</b>	None
<b>Packaging bulk</b>	None

**IATA**

<b>UN number</b>	UN1950
<b>UN proper shipping name</b>	Aerosols, flammable, Limited Quantity
<b>Transport hazard class(es)</b>	
<b>Class</b>	2.1
<b>Subsidiary risk</b>	-
<b>Packing group</b>	Not applicable.
<b>Environmental hazards</b>	No.
<b>ERG Code</b>	10L
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.
<b>Other information</b>	
<b>Passenger and cargo aircraft</b>	Allowed.
<b>Cargo aircraft only</b>	Allowed.

**IMDG**

<b>UN number</b>	UN1950
<b>UN proper shipping name</b>	AEROSOLS, LIMITED QUANTITY
<b>Transport hazard class(es)</b>	
<b>Class</b>	2
<b>Subsidiary risk</b>	-
<b>Packing group</b>	Not applicable.
<b>Environmental hazards</b>	
<b>Marine pollutant</b>	No.
<b>EmS</b>	Not available.
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.

## 15. Regulatory information

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**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.

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

Not regulated.

**SARA 304 Emergency release notification**

Not regulated.

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

Not listed.

**US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance**

Not listed.

**CERCLA Hazardous Substance List (40 CFR 302.4)**

Not listed.

**CERCLA Hazardous Substances: Reportable quantity**

Not listed.

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.

**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.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Section 311/312 Hazard categories**  
Immediate Hazard - Yes  
Delayed Hazard - No  
Fire Hazard - Yes  
Pressure Hazard - Yes  
Reactivity Hazard - No

**SARA 302 Extremely hazardous substance** No

**US state regulations**

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

Carbon dioxide (CAS 124-38-9)  
Distillates (petroleum), hydrotreated light (CAS 64742-47-8)

**US. Massachusetts RTK - Substance List**

Carbon dioxide (CAS 124-38-9)

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

Carbon dioxide (CAS 124-38-9)  
Distillates (petroleum), hydrotreated light (CAS 64742-47-8)

**US. Rhode Island RTK**

None.

**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.

**Volatile organic compounds (VOC) regulations**

**EPA**

**VOC content (40 CFR 51.100(s))** 97.2 %

**Consumer products (40 CFR 59, Subpt. C)** Not regulated

**State**

**Consumer products** Not regulated

**VOC content (CA)** 0 %

**VOC content (OTC)** 0 %

**International Inventories**

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



Country(s) or region	Inventory name	On inventory (yes/no)*
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

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<b>Issue date</b>	05-19-2014
<b>Prepared by</b>	Allison Cho
<b>Version #</b>	01
<b>Further information</b>	CRC # 493A
<b>HMIS® ratings</b>	Health: 2 Flammability: 3 Physical hazard: 0 Personal protection: B
<b>NFPA ratings</b>	Health: 2 Flammability: 3 Instability: 0
<b>Disclaimer</b>	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. This information is accurate to the best of CRC Industries' knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and directions on the label. For further clarification of any information contained on this (M)SDS consult your supervisor, a health & safety professional, or CRC Industries.



# SAFETY DATA SHEET

## 1. Identification

**Product identifier** Natural Degreaser™ Citrus-Based Degreaser

**Other means of identification**

**Product code** 14005

**Recommended use** General purpose degreaser

**Recommended restrictions** None known.

**Manufacturer/Importer/Supplier/Distributor information**

**Manufactured or sold by:**

**Company name** CRC Industries, Inc.  
**Address** 885 Louis Dr.  
Warminster, PA 18974 US

**Telephone**

**General Information** 215-674-4300

**Technical Assistance** 800-521-3168

**Customer Service** 800-272-4620

**24-Hour Emergency (CHEMTREC)** 800-424-9300 (US)

703-527-3887 (International)

**Website** www.crcindustries.com

## 2. Hazard(s) identification

<b>Physical hazards</b>	Flammable aerosols	Category 1
	Gases under pressure	Compressed gas
<b>Health hazards</b>	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2A
	Sensitization, skin	Category 1B
	Specific target organ toxicity, single exposure	Category 3 respiratory tract irritation
<b>Environmental hazards</b>	Hazardous to the aquatic environment, acute hazard	Category 2
	Hazardous to the aquatic environment, long-term hazard	Category 2
<b>OSHA defined hazards</b>	Not classified.	

**Label elements**



**Signal word** Danger

**Hazard statement** Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause respiratory irritation. Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

**Precautionary statement**

**Prevention** Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Do not apply while equipment is energized. Pressurized container: Do not pierce or burn, even after use. Extinguish all flames, pilot lights and heaters. Vapors will accumulate readily and may ignite. Use only with adequate ventilation; maintain ventilation during use and until all vapors are gone. Open doors and windows or use other means to ensure a fresh air supply during use and while product is drying. If you experience any symptoms listed on this label, increase ventilation or leave the area. Avoid breathing mist or vapor. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/eye protection/face protection. Avoid release to the environment.

<b>Response</b>	If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical attention. Take off contaminated clothing and wash before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. 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 attention. Collect spillage.
<b>Storage</b>	Store in a well-ventilated place. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Exposure to high temperature may cause can to burst.
<b>Disposal</b>	Dispose of contents/container in accordance with local/regional/national regulations.
<b>Hazard(s) not otherwise classified (HNOC)</b>	None known.

### 3. Composition/information on ingredients

#### Mixtures

Chemical name	Common name and synonyms	CAS number	%
Dipropylene glycol monopropyl ether (dpmp)		29911-27-1	60 - 70
Dipropylene glycol monomethyl ether acetate		88917-22-0	20 - 30
d-Limonene		5989-27-5	5 - 10
Carbon dioxide		124-38-9	3 - 5
Dipentene		68956-56-9	1 - 3

Specific chemical identity and/or percentage of composition has been withheld as a trade secret.

### 4. First-aid measures

<b>Inhalation</b>	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.
<b>Skin contact</b>	Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. Wash contaminated clothing before reuse.
<b>Eye contact</b>	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	If ingestion of a large amount does occur, call a poison control center immediately. Rinse mouth.
<b>Most important symptoms/effects, acute and delayed</b>	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.
<b>Indication of immediate medical attention and special treatment needed</b>	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
<b>General information</b>	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

### 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>Specific hazards arising from the chemical</b>	Contents under pressure. Pressurized container may rupture when exposed to heat or flame. During fire, gases hazardous to health may be formed.
<b>Special protective equipment and precautions for firefighters</b>	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
<b>Fire-fighting equipment/instructions</b>	In case of fire: Stop leak if safe to do so. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up.
<b>General fire hazards</b>	Extremely flammable aerosol. Contents under pressure. Pressurized container may rupture when exposed to heat or flame.

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Many vapors are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapor. Emergency personnel need self-contained breathing equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

### Methods and materials for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways. Stop the flow of material, if this is without risk. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.

### Environmental precautions

Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases.

## 7. Handling and storage

### Precautions for safe handling

Minimize fire risks from flammable and combustible materials (including combustible dust and static accumulating liquids) or dangerous reactions with incompatible materials. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Use caution around energized equipment. The metal container will conduct electricity if it contacts a live source. This may result in injury to the user from electrical shock and/or flash fire. Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices. Avoid release to the environment. For product usage instructions, please see the product label.

### Conditions for safe storage, including any incompatibilities

Level 3 Aerosol.

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Avoid spark promoters. These alone may be insufficient to remove static electricity. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

### Occupational exposure limits

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

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	PEL	9000 mg/m <sup>3</sup>
		5000 ppm

#### US. ACGIH Threshold Limit Values

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	STEL	30000 ppm
	TWA	5000 ppm

#### US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Carbon dioxide (CAS 124-38-9)	STEL	54000 mg/m <sup>3</sup>
	TWA	30000 ppm
		9000 mg/m <sup>3</sup>
		5000 ppm

**US. AIHA Workplace Environmental Exposure Level (WEEL) Guides**

Components	Type	Value
d-Limonene (CAS 5989-27-5)	TWA	165.5 mg/m <sup>3</sup> 30 ppm

<b>Biological limit values</b>	No biological exposure limits noted for the ingredient(s).
<b>Appropriate engineering controls</b>	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. Eye wash facilities and emergency shower must be available when handling this product.
<b>Individual protection measures, such as personal protective equipment</b>	
<b>Eye/face protection</b>	Wear safety glasses with side shields (or goggles).
<b>Skin protection</b>	
<b>Hand protection</b>	Wear protective gloves such as: Nitrile. Viton®. Polyvinyl chloride (PVC).
<b>Other</b>	Wear appropriate chemical resistant clothing.
<b>Respiratory protection</b>	If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a NIOSH-approved cartridge respirator with an organic vapor cartridge. Use a self-contained breathing apparatus in confined spaces and for emergencies. Air monitoring is needed to determine actual employee exposure levels.
<b>Thermal hazards</b>	Wear appropriate thermal protective clothing, when necessary.
<b>General hygiene considerations</b>	When using do not smoke. 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. Contaminated work clothing should not be allowed out of the workplace.

**9. Physical and chemical properties****Appearance**

<b>Physical state</b>	Liquid.
<b>Form</b>	Aerosol.
<b>Color</b>	Water-white.
<b>Odor</b>	Citrus.
<b>Odor threshold</b>	Not available.
<b>pH</b>	Not available.
<b>Melting point/freezing point</b>	-139.9 °F (-95.5 °C) estimated
<b>Initial boiling point and boiling range</b>	304 °F (151.1 °C) estimated
<b>Flash point</b>	150 °F (65.6 °C) Tag Closed Cup
<b>Evaporation rate</b>	Slow.
<b>Flammability (solid, gas)</b>	Not available.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	0.7 % estimated
<b>Flammability limit - upper (%)</b>	5.4 % estimated
<b>Vapor pressure</b>	2076.9 hPa estimated
<b>Vapor density</b>	> 1 (air = 1)
<b>Relative density</b>	0.95 estimated
<b>Solubility (water)</b>	Negligible.
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	401 °F (205 °C) estimated
<b>Decomposition temperature</b>	Not available.
<b>Viscosity (kinematic)</b>	Not available.

Percent volatile 96.4 % estimated

## 10. Stability and reactivity

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<b>Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>Conditions to avoid</b>	Heat, flames and sparks. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
<b>Incompatible materials</b>	Strong acids. Strong bases. Strong oxidizing agents.
<b>Hazardous decomposition products</b>	Aldehydes. Ketones. Organic acids. Carbon oxides.

## 11. Toxicological information

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### Information on likely routes of exposure

<b>Inhalation</b>	May cause irritation to the respiratory system. Prolonged inhalation may be harmful.
<b>Skin contact</b>	Causes skin irritation. May cause an allergic skin reaction.
<b>Eye contact</b>	Causes serious eye irritation.
<b>Ingestion</b>	Swallowing small amounts during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful. May cause gastrointestinal irritation.

**Symptoms related to the physical, chemical and toxicological characteristics** Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

### Information on toxicological effects

**Acute toxicity** May cause an allergic skin reaction. May cause respiratory irritation.

Product	Species	Test Results
Natural Degreaser™ Citrus-Based Degreaser		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	2305 mg/kg estimated
<b>Inhalation</b>		
LC50	Rat	24 mg/l, 4 Hours estimated
<b>Oral</b>		
LD50	Rat	2147 mg/kg estimated

\* Estimates for product may be based on additional component data not shown.

<b>Skin corrosion/irritation</b>	Causes skin irritation.
<b>Serious eye damage/eye irritation</b>	Causes serious eye irritation.
<b>Respiratory sensitization</b>	Not a respiratory sensitizer.
<b>Skin sensitization</b>	May cause an allergic skin reaction.
<b>Germ cell mutagenicity</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
<b>Carcinogenicity</b>	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
<b>IARC Monographs. Overall Evaluation of Carcinogenicity</b>	
d-Limonene (CAS 5989-27-5)	3 Not classifiable as to carcinogenicity to humans.
<b>Reproductive toxicity</b>	This product is not expected to cause reproductive or developmental effects.
<b>Specific target organ toxicity - single exposure</b>	May cause respiratory irritation.
<b>Specific target organ toxicity - repeated exposure</b>	Not classified.
<b>Aspiration hazard</b>	Not an aspiration hazard.
<b>Chronic effects</b>	Prolonged inhalation may be harmful.

## 12. Ecological information

**Ecotoxicity** Toxic to aquatic life with long lasting effects.

<b>Product</b>		<b>Species</b>	<b>Test Results</b>
Natural Degreaser™ Citrus-Based Degreaser			
<b>Aquatic</b>			
Fish	LC50	Fish	8.5631 mg/l, 96 hours estimated
<i>Acute</i>			
Crustacea	EC50	Daphnia	159.6211 mg/l, 48 hours estimated
<b>Components</b>		<b>Species</b>	<b>Test Results</b>
Dipropylene glycol monomethyl ether acetate (CAS 88917-22-0)			
<b>Aquatic</b>			
<i>Acute</i>			
Crustacea	LC50	Water flea (Daphnia magna)	2701 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	151 mg/l, 96 hours
		Rainbow trout,donaldson trout (Oncorhynchus mykiss)	111 mg/l, 96 hours
Dipropylene glycol monopropyl ether (dpmp) (CAS 29911-27-1)			
<b>Aquatic</b>			
<i>Acute</i>			
Crustacea	EC50	Water flea (Daphnia magna)	> 100 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	> 100 mg/l, 96 hours
d-Limonene (CAS 5989-27-5)			
<b>Aquatic</b>			
Crustacea	EC50	Water flea (Daphnia pulex)	69.6 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	0.619 - 0.796 mg/l, 96 hours

\* Estimates for product may be based on additional component data not shown.

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

### Bioaccumulative potential

#### Partition coefficient n-octanol / water (log Kow)

Dipropylene glycol monomethyl ether acetate	0.61 OECD 107
Dipropylene glycol monopropyl ether (dpmp)	0.87 OECD 107
d-Limonene	4.232

**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 of waste from residues / unused products** If discarded, this product is considered a RCRA ignitable waste, D001. Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose in accordance with all applicable regulations.

**Hazardous waste code** D001: Waste Flammable material with a flash point <140 F

**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

<b>UN number</b>	UN1950
<b>UN proper shipping name</b>	Aerosols, flammable, Limited Quantity
<b>Transport hazard class(es)</b>	
<b>Class</b>	2.1
<b>Subsidiary risk</b>	-



<b>Label(s)</b>	2.1
<b>Packing group</b>	Not applicable.
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.
<b>Special provisions</b>	N82
<b>Packaging exceptions</b>	306
<b>Packaging non bulk</b>	None
<b>Packaging bulk</b>	None

#### IATA

<b>UN number</b>	UN1950
<b>UN proper shipping name</b>	Aerosols, flammable, Limited Quantity
<b>Transport hazard class(es)</b>	
<b>Class</b>	2.1
<b>Subsidiary risk</b>	-
<b>Packing group</b>	Not applicable.
<b>Environmental hazards</b>	Yes
<b>ERG Code</b>	10L
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.
<b>Other information</b>	
<b>Passenger and cargo aircraft</b>	Allowed.
<b>Cargo aircraft only</b>	Allowed.

#### IMDG

<b>UN number</b>	UN1950
<b>UN proper shipping name</b>	AEROSOLS, LIMITED QUANTITY, MARINE POLLUTANT
<b>Transport hazard class(es)</b>	
<b>Class</b>	2
<b>Subsidiary risk</b>	-
<b>Packing group</b>	Not applicable.
<b>Environmental hazards</b>	
<b>Marine pollutant</b>	Yes
<b>EmS</b>	F-D, S-U
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.

## 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.

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

Not listed.

#### **SARA 304 Emergency release notification**

Not regulated.

#### **US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance**

Not listed.

#### **CERCLA Hazardous Substance List (40 CFR 302.4)**

Not listed.

#### **CERCLA Hazardous Substances: Reportable quantity**

Not listed.

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.

#### **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.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Section 311/312 Hazard categories**  
Immediate Hazard - Yes  
Delayed Hazard - No  
Fire Hazard - Yes  
Pressure Hazard - Yes  
Reactivity Hazard - No

**SARA 302 Extremely hazardous substance** No

**US state regulations**

**US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)**

Not listed.

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

Carbon dioxide (CAS 124-38-9)

**US. Massachusetts RTK - Substance List**

Carbon dioxide (CAS 124-38-9)

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

Carbon dioxide (CAS 124-38-9)

**US. Rhode Island RTK**

None.

**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.

**Volatile organic compounds (VOC) regulations**

**EPA**

**VOC content (40 CFR 51.100(s))** 97 %

**Consumer products (40 CFR 59, Subpt. C)** Not regulated

**State**

**Consumer products** This product is regulated as a General Purpose Degreaser (aerosol). This product is compliant for use in all 50 states.

**VOC content (CA)** 9.7 %

**VOC content (OTC)** 9.7 %

**International Inventories**

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)	No
Europe	European List of Notified Chemical Substances (ELINCS)	Yes
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
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)

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** 04-28-2015

**Prepared by** Allison Cho

**Version #** 01  
**Further information** CRC # 598E  
**HMIS® ratings** Health: 1  
Flammability: 3  
Physical hazard: 0  
Personal protection: B

**NFPA ratings** Health: 1  
Flammability: 3  
Instability: 0

**NFPA ratings**



**Disclaimer**

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. This information is accurate to the best of CRC Industries' knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and directions on the label. For further clarification of any information contained on this (M)SDS consult your supervisor, a health & safety professional, or CRC Industries.

# SAFETY DATA SHEET

## Goof Off Heavy Duty

Page: 1

Printed: 05/04/2015

Revision: 05/04/2015

Supersedes Revision: 11/05/2012

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Goof Off Heavy Duty  
**Company Name:** W. M. Barr  
2105 Channel Avenue  
Memphis, TN 38113  
**Phone Number:** (901)775-0100

**Web site address:** www.wmbarr.com

**Emergency Contact:** 3E 24 Hour Emergency Contact (800)451-8346  
**Information:** W.M. Barr Customer Service (800)398-3892

**Intended Use:** Mult-Purpose Remover for tar, ink, paint, adhesive, etc.

**Synonyms:** FG705

**Additional Information** This product is regulated by the United States Consumer Product Safety Commission and is subject to certain labeling requirements under the Federal Hazardous Substances Act. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS). The product label also includes other important information, including directions for use, and should always be read in its entirety prior to using the product.

### 2. HAZARDS IDENTIFICATION

**Serious Eye Damage/Eye Irritation, Category 1**

**Skin Sensitization, Category 1**



**GHS Signal Word:** Danger

**GHS Hazard Phrases:** H317: May cause an allergic skin reaction.  
H318: Causes serious eye damage.

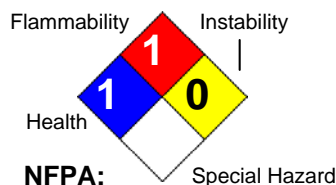
**GHS Precaution Phrases:** P261: Avoid breathing gas/mist/vapors/spray.  
P272: Contaminated work clothing should not be allowed out of the workplace.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.

**GHS Response Phrases:** P302+352: IF ON SKIN: Wash with plenty of soap and water.  
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310: Immediately call a POISON CENTER or doctor/physician.  
P321: Specific treatment see label.  
P333+313: If skin irritation or rash occurs, seek medical advice/attention.  
P363: Wash contaminated clothing before reuse.

**GHS Storage and Disposal Phrases:** P501: Dispose of contents/container according to local, state and federal regulations.

**Hazard Rating System:**

HEALTH	*	1
FLAMMABILITY		1
PHYSICAL		0
PPE		X



**NFPA:**

**HMIS:**

**OSHA Regulatory Status:** This material is classified as hazardous under OSHA regulations.

# SAFETY DATA SHEET

## Goof Off Heavy Duty

Page: 2

Printed: 05/04/2015

Revision: 05/04/2015

Supersedes Revision: 11/05/2012

### Potential Health Effects (Acute and Chronic):

#### Eyes:

May cause severe irritation, experienced as discomfort or pain, excess blinking and tear production, marked excess redness and swelling of the conjunctiva, and chemical burns of the eye.

#### Skin:

May cause moderate skin irritation. Prolonged and/or repeated contact may cause defatting of the skin and dermatitis. Causes redness and pain. May be harmful if absorbed through the skin.

#### Inhalation:

When used as directed, the consumer is not expected to experience any exposure effects. Excessive exposure may cause irritation to the upper respiratory tract. Symptoms may include a headache, dizziness, or nausea.

#### Ingestion:

Harmful if swallowed. May cause severe gastrointestinal tract irritation with nausea, vomiting and possible burns. May produce signs of intoxication characterized by incoordination, dizziness, drowsiness, headache, nausea, mental confusion, possibly slurred speech, and stupor.

#### Chronic Health Effects:

Diethylene glycol monobutyl ether has caused red blood cell hemolysis in laboratory animals and secondary injury to the kidney and liver. However, humans appear to be resistant to this effect.

Prolonged skin contact may cause dermatitis.

Target Organs: Blood (Hemolysis), Kidneys, Liver, Central Nervous System.

Primary Routes of Entry: Inhalation, Ingestion

**Medical Conditions Generally** None known.

**Aggravated By Exposure:**

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Hazardous Components (Chemical Name)	Concentration	RTECS #
100-51-6	Benzenemethanol {Benzyl alcohol}	<10.0 %	DN3150000
2568-90-3	1,1'-[Methylenebis(oxy)]dibutane	<10.0 %	NA
27177-77-1	Benzenesulfonic acid, dodecyl-, potassium salt	<10.0 %	DB6820000
112-34-5	Diethylene glycol monobutyl ether {2-(2-Butoxyethoxy)ethanol {(a glycol ether)}}	< 5.0 %	KJ9100000

### Additional Chemical Information

Specific percentage of composition is being withheld as a trade secret.

## 4. FIRST AID MEASURES

<b>Emergency and First Aid Procedures:</b>	<p><b>Skin:</b> Remove contaminated clothing. Immediately wash skin thoroughly with large amounts of water and mild soap, if available. Seek medical attention if irritation develops or persists.</p> <p><b>Eyes:</b> Immediately begin to flush eyes with water, remove any contact lens. Continue to flush the eyes for at least 15 minutes. Seek medical attention.</p> <p><b>Inhalation:</b> Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.</p> <p><b>Ingestion:</b> If swallowed, do NOT induce vomiting. Seek immediate medical attention. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.</p>
<b>Signs and Symptoms Of Exposure:</b>	See Potential Health Effects.
<b>Note to Physician:</b>	Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

## 5. FIRE FIGHTING MEASURES

<b>Flash Pt:</b>	No data.
<b>Explosive Limits:</b>	LEL: No data. UEL: No data.
<b>Autoignition Pt:</b>	No data.
<b>Suitable Extinguishing Media:</b>	Non-combustible liquid - use extinguishing media for underlying cause of fire.
<b>Unsuitable Extinguishing Media:</b>	None known.
<b>Fire Fighting Instructions:</b>	Self-contained respiratory protection should be provided for fire fighters fighting fires in buildings or confined areas. Storage containers exposed to fire should be kept cool with water spray to prevent pressure build-up. Stay away from heads of containers that have been exposed to intense heat or flame.
<b>Flammable Properties and Hazards:</b>	Flashpoint: No flash to boiling. This material does not exhibit a flashpoint per the Setaflash Closed Cup test method.

## 6. ACCIDENTAL RELEASE MEASURES

<b>Steps To Be Taken In Case Material Is Released Or Spilled:</b>	Prevent entry into waterways, sewers, or confined areas. Absorb or cover with dry earth, sand, or other non-combustible material and transfer to compatible containers for proper disposal. For large spills, dike ahead of the spill.
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## 7. HANDLING AND STORAGE

<b>Precautions To Be Taken in Handling:</b>	<p>Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling. A source of clean water should be kept in the immediate work area for flushing of the eyes and skin.</p> <p>Follow all MSDS/label precautions even after container is emptied because they may retain product residues.</p>
<b>Precautions To Be Taken in Storing:</b>	Keep containers closed when not in use. Store in a cool, dry place, out of direct sunlight. Protect from freezing.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
100-51-6	Benzenemethanol {Benzyl alcohol}	No data.	No data.	No data.
2568-90-3	1,1'-[Methylenebis(oxy)]dibutane	No data.	No data.	No data.
27177-77-1	Benzenesulfonic acid, dodecyl-, potassium salt	No data.	No data.	No data.
112-34-5	Diethylene glycol monobutyl ether {2-(2-Butoxyethoxy)ethanol {(a glycol ether)}	No data.	No data.	No data.

**Respiratory Equipment (Specify Type):** When used by the consumer following directions for use and with adequate ventilation, respiratory protection is not expected to be needed.

A respiratory protection 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 the work area is not properly ventilated to keep airborne levels below their exposure limits, you must use a properly fitted and maintained NIOSH approved respirator for organic vapors. A dust mask does not provide protection against vapors.

**Eye Protection:** Where contact with the eyes or face is likely from spraying or splashing, safety glasses, a faceshield or chemical goggles should be worn to prevent eye contact.

**Protective Gloves:** When used as directed, protective gloves should not be required. For prolonged or repeated contact, wear gloves with as much resistance to the chemical ingredients as possible. Glove materials such as natural rubber or nitrile rubber provide protection. Glove selection should be based on chemicals being used and conditions of use. Consult your glove supplier for additional information.

**Other Protective Clothing:** Various application methods can dictate use of additional protective safety equipment, such as impermeable aprons, etc., to minimize exposure.

**Engineering Controls (Ventilation etc.):** Ventilation is normally not required when handling or using this product to keep exposure to airborne contaminants below the exposure limit.

Good general ventilation should be sufficient to control airborne levels.

**Work/Hygienic/Maintenance Practices:** Wash hands thoroughly after use and before eating, drinking, smoking, or using the restroom.

Do not eat, drink, or smoke in the work area.

Discard any clothing or other protective equipment that cannot be decontaminated.

Facilities storing or handling this material should be equipped with an emergency eyewash and safety shower.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical States:** [ ] Gas [ X ] Liquid [ ] Solid  
**Appearance and Odor:** Clear, thin, colorless to light yellow liquid.  
**Melting Point:** 32.00 F  
**Boiling Point:** 212.00 F  
**Autoignition Pt:** No data.  
**Flash Pt:** No data.  
**Explosive Limits:** LEL: No data. UEL: No data.  
**Specific Gravity (Water = 1):** 1.0022  
**Density:** 8.34 LB/GL  
**Vapor Pressure (vs. Air or mm Hg):** No data.  
**Vapor Density (vs. Air = 1):** > 1  
**Evaporation Rate:** > 1  
**Solubility in Water:** Complete  
**pH:** 6.5 - 7.5  
**Percent Volatile:** 92.0 % by weight.  
**VOC / Volume:** 9.0000 % WT

## 10. STABILITY AND REACTIVITY

**Stability:** Unstable [ ] Stable [ X ]  
**Conditions To Avoid - Instability:** None known.  
**Incompatibility - Materials To Avoid:** Strong alkalies, acids, and oxidizers.  
**Hazardous Decomposition Or Byproducts:** Carbon monoxide, carbon dioxide  
**Possibility of Hazardous Reactions:** Will occur [ ] Will not occur [ X ]  
**Conditions To Avoid - Hazardous Reactions:** None known.

**SAFETY DATA SHEET**  
**Goof Off Heavy Duty**

**11. TOXICOLOGICAL INFORMATION**

**Toxicological Information:** Product has not been tested as a whole, Refer to section 2 for acute and chronic health effects.

CAS# 112-34-5:

Standard Draize Test, Eyes, Species: Rabbit, 20.00 MG, Severe.

Result:

Behavioral: Anticonvulsant.

- American Journal of Ophthalmology., Ophthalmic Pub. Co., 435 N. Michigan Ave., Suite 1415, Chicago, IL 60611, Vol/p/yr: 29,1363, 1946

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
100-51-6	Benzenemethanol {Benzyl alcohol}	n.a.	n.a.	n.a.	n.a.
2568-90-3	1,1'-[Methylenebis(oxy)]dibutane	n.a.	n.a.	n.a.	n.a.
27177-77-1	Benzenesulfonic acid, dodecyl-, potassium salt	n.a.	n.a.	n.a.	n.a.
112-34-5	Diethylene glycol monobutyl ether {2-(2-Butoxyethoxy)ethanol {(a glycol ether)}	n.a.	n.a.	n.a.	n.a.

**12. ECOLOGICAL INFORMATION**

**General Ecological Information:** Product has not been tested as a whole.

**13. DISPOSAL CONSIDERATIONS**

**Waste Disposal Method:** Dispose of in accordance with all applicable local, state, and federal regulations. Do not dump into sewers or allow to enter waterways.

**14. TRANSPORT INFORMATION**

**LAND TRANSPORT (US DOT):**

**DOT Proper Shipping Name:** Not regulated by D.O.T.

**DOT Hazard Class:**

**UN/NA Number:**

**Additional Transport Information:**

**15. REGULATORY INFORMATION**

**EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists**

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
100-51-6	Benzenemethanol {Benzyl alcohol}	No	No	No
2568-90-3	1,1'-[Methylenebis(oxy)]dibutane	No	No	No
27177-77-1	Benzenesulfonic acid, dodecyl-, potassium salt	No	No	No
112-34-5	Diethylene glycol monobutyl ether {2-(2-Butoxyethoxy)ethanol {(a glycol ether)}	No	No	Yes-Cat. N230

**This material meets the EPA**  Yes  No Acute (immediate) Health Hazard

**'Hazard Categories' defined**  Yes  No Chronic (delayed) Health Hazard

**for SARA Title III Sections**  Yes  No Fire Hazard

**311/312 as indicated:**  Yes  No Sudden Release of Pressure Hazard

Yes  No Reactive Hazard



# SAFETY DATA SHEET

## Goof Off Heavy Duty

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Supersedes Revision: 11/05/2012

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
100-51-6	Benzenemethanol {Benzyl alcohol}	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No
2568-90-3	1,1'-[Methylenebis(oxy)]dibutane	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No
27177-77-1	Benzenesulfonic acid, dodecyl-, potassium salt	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No
112-34-5	Diethylene glycol monobutyl ether {2-(2-Butoxyethoxy)ethanol {(a glycol ether)}	CAA HAP,ODC: HAP; CWA NPDES: No; TSCA: Yes - Inventory, 4 Test; CA PROP.65: No

**Regulatory Information Statement:** All components of this material are listed on the TSCA Inventory or are exempt.

### 16. OTHER INFORMATION

**Revision Date:** 05/04/2015  
**Preparer Name:** W.M. Barr EHS Dept (901)775-0100  
**Additional Information About This Product:** No data available.

**Company Policy or Disclaimer:** The information contained herein is presented in good faith and believed to be accurate as of the effective date shown above. This information is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determination of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. Any use of this data and information must be determined by the user to be in accordance with applicable federal, state and local laws and regulations.

**Safety Data Sheet**  
**Complying with 1907/2006/EEC Regulation**  
**of 18 December 2006 ("REACH Regulation") and**  
**REGULATION (EC) No 1272/2008 (CLP)**



Revision date: Initial version  
Date of issue: 05.20.2015

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<b>Trade name:</b>	<b>IDEAL Wipes Multi-purpose wipes</b>
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**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

**1.1 Product identifier:**

<b>Product identifier:</b>	<b>IDEAL Wipes Multi-purpose wipes.</b>
<b>Synonyms:</b>	None available.
<b>Product Code Number:</b>	38-500EU.
<b>SDS number:</b>	ID018

**1.2 Relevant identified uses of the substance or mixture and uses advised against:**

Cleaner degreaser.

Recommended restrictions - None known.

**1.3. Details of the Supplier of the Safety Data Sheet:**

<b>Company Name:</b>	IDEAL INDUSTRIES, INC.
<b>Company Address:</b>	Unit 3, Europa Court, Europa Boulevard, Westbrook, Warrington Cheshire WA5 7TN United Kingdom.
<b>Company Telephone:</b>	Office hours (Mon – Fri) 7AM - 5 PM (GMT) +44 1925 444446

<b>Company Contact Name:</b>	Darryl Docter.
<b>Company Contact Email:</b>	IDEAL@IDEALINDUSTRIES.COM

**1.4 Emergency telephone number:**

<b>Emergency phone number:</b>	<b>24 HOUR EMERGENCY NUMBER:</b> (815)895-5181.
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**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture:**

**Classification according to Regulation (EC) No 1272/2008 [CLP]**

***Physical hazards***

Not classified as a physical hazard under GHS criteria.

**Health hazards**

Eye irritation, Category 2.

**Environmental hazards**

Not classified as an environmental hazard under GHS criteria.

**2.2: Label elements:**

**Hazard pictograms:**



**Signal word:** WARNING.

**Hazard statements:** H319 Causes serious eye irritation.

**Precautionary statements:**

**Prevention:**

P264 - Wash hands thoroughly after handling.

P280 - Wear eye protection/face protection.

**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.

**Storage:**

No storage precautionary statements required.

**Disposal:**

No disposal precautionary statements required.

**Supplemental Hazard information (EU):** Not applicable.

**2.3 Other hazards:**

**Hazard(s) not otherwise**

**Classified (HNOC):** None known.

**SECTION 3: Composition/information on ingredients**

**3.1 Substances: NA**

### 3.2 Mixtures:

Chemical name	CAS#	Concentration (weight %)	Classification according to Regulation (EC) No 1278/2008 (CLP).
Blend of Alcohol paneths	68131-39-5 68439-46-3	< 5%	Skin irrit, Cat 2 - H315 Eye irrit, Cat 1 – H318 Hazardous to the aquatic environment, Chronic hazard Cat 3 – H412

## SECTION 4: First aid measures

### 4.1 Description of first aid measures:

**Inhalation:** Move to fresh air. Get medical attention if symptoms develop.

**Skin contact:** Immediately remove excess chemical and contaminated clothing; thoroughly wash contaminated skin with mild soap and water. If irritation persists after washing seek medical attention. Clean contaminated clothing before reuse.

**Eye contact:** Thoroughly flush eyes with large amounts of clean low-pressure water for at least 15 minutes, occasionally lifting upper and lower eye lids. If irritation persists, seek medical attention.

**Ingestion:** If victim is conscious and able to swallow, have the victim drink water to dilute. Never give anything by mouth if victim is unconscious or having convulsions. Induce vomiting only if advised by a physician or Poison Control Centre. CALL A DOCTOR or PHYSICIAN IMMEDIATELY.

### 4.2 Most important symptoms and effects, both acute and delayed:

Eye contact may be slightly irritating. May be harmful if ingested. Inhaling mist may cause irritation to respiratory tract. Prolonged contact may cause skin to become dry or minor irritation.

### 4.3 Indication of any immediate medical attention and special treatment needed:

If any symptoms are observed, contact a physician and give them this SDS sheet.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media:

**Suitable extinguishing media:** After water evaporates residue can burn. Use water spray, carbon dioxide, alcohol type or universal type foam applied in accordance with the manufacturer's instructions.

**Unsuitable extinguishing media:** No data available.

### 5.2 Special hazards arising from the substance or mixture:

None known. Use water to keep fire-exposed containers cool.  
Hazardous combustion products: May include and are not limited to oxides of carbon.

### **5.3 Advice for firefighters:**

For fire involving this material, do not enter any enclosed or confined fire space without proper protective equipment. Use self-contained breathing apparatus with full face shield to protect against the hazardous effects of combustion products and oxygen deficiencies.

## **SECTION 6: Accidental release measures**

### **6.1 Personal precautions, protective equipment and emergency procedures:**

For non-emergency personnel:

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak.

For emergency responders:

Wear appropriate protective equipment, including respiratory protection, as conditions warrant (see Section 8).

### **6.2 Environmental precautions:**

Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

### **6.3 Methods and material for containment and cleaning up:**

Ventilate area. Collect for disposal. Clean up remaining materials from spill with suitable absorbent. Clean area as appropriate since some material, even in small quantities; may present a slip hazard. Observe all personal protection equipment recommendations.

### **6.4 Reference to other sections:**

See Sections 2 and 7 for additional information on hazards and precautionary measures.  
See Section 8 for personal protection equipment recommendations.

## **SECTION 7: Handling and Storage**

### **7.1 Precautions for safe handling:**

Avoid contact with eyes, skin and clothing. Handle and open container with care. Empty containers may contain product residue. Do not reuse empty containers without commercial cleaning and reconditioning. Wear personal protective equipment. Use good personal hygiene practices and wear appropriate personal protective equipment as required (see section 8).

### **7.2 Conditions for safe storage, including any incompatibilities:**

Keep Out of Reach of Children. Keep away from heat, sparks, flame, static electricity, or other sources of ignition. Where flammable mixtures may be present, equipment safe for such locations should be used. Store in a cool, dry place away from incompatible materials.

### **7.3 Specific end use(s):**

Cleaner degreaser

**SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters**

**Occupational Exposure limit values:**

<b>European Union Permissible Exposure Limits (Regulation EU 453/2010)</b>		
<b>Substance</b>	<b>Binding occupational exposure limits (BOELVs)</b>	<b>Indicative occupational exposure limits (IOELVs)</b>
Blend of Alcohol paneths	No data available	No data available

**Appropriate engineering controls:** General (mechanical) room ventilation is expected to be adequate. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**Personal protection equipment:**

**Eye and face protection:** None required but the use of safety glasses is recommended. Use equipment for eye protection tested and approved under appropriate government standards such as EN 166:2001. Eye fountain in work area is recommended but not necessary.

**Skin protection:** None required

**Hand protection:** None required but use of chemical resistant (rubber, nitrile) gloves is recommended. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Other skin protection:** None required

**Respiratory protection:** None required. Use supplied-air respiratory protection in enclosed spaces, if needed.

**Thermal hazards:** No data available

**Environmental exposure controls:** No data available.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties:

<b>Appearance:</b>	Clear liquid.
<b>Colour:</b>	Clear.
<b>Odour:</b>	Citrus.
<b>Odour threshold:</b>	No data available
<b>pH:</b>	5.0 – 8.0.
<b>Melting point/freezing point:</b>	No data available
<b>Initial boiling point and boiling range:</b>	212 °F (100 °C)
<b>Flash point:</b>	>300°F
<b>Evaporation rate:</b>	No data available
<b>Flammability (solid, gas):</b>	The product is not flammable.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit – lower (%):</b>	Not applicable
<b>Flammability limit – upper (%):</b>	Not applicable
<b>Explosive limit – lower (%):</b>	Not applicable
<b>Explosive limit – upper (%):</b>	Not applicable
<b>Vapour pressure:</b>	No data available
<b>Vapour density:</b>	No data available
<b>Relative Density:</b>	1.00
<b>Solubility(ies):</b>	Dispersible in water
<b>Partition coefficient (n-octanol/water):</b>	No data available
<b>Auto-ignition temperature:</b>	No data available
<b>Decomposition temperature:</b>	No data available
<b>Viscosity:</b>	No data available
<b>Explosive properties:</b>	No data available
<b>Oxidising properties:</b>	No data available

### 9.2 Other information:

<b>Percent volatile by volume (%):</b>	No data available
<b>Percent solid by weight:</b>	<15%

## SECTION 10: Stability and Reactivity

### 10.1 Reactivity:

Not chemically reactive.

### 10.2 Chemical stability:

Stable under normal ambient and anticipated conditions of use.

### 10.3 Possibility of hazardous reactions:

Hazardous reactions not anticipated.

**10.4 Conditions to avoid:**

Extreme temperatures.

**10.5 Incompatible materials:**

Avoid strong oxidizing agents.

**10.6 Hazardous decomposition products:**

May include and are not limited to oxides of carbon.

**SECTION 11: Toxicological information**

**11.1 Information on toxicological effects:**

**Acute Toxicity**

**Numerical measures of toxicity:**

**Ingredient Information:**

Substance	Test Type (species)	Value
Blend of Alcohol paneths	LD <sub>50</sub> Oral (Rat)	> 2000 mg/kg
	LD <sub>50</sub> Dermal (Rabbit)	> 2000 mg/kg
	LC <sub>50</sub> Inhalation (Rat)	No data available

**Product Acute Toxicity Estimates:**

Acute Oral Toxicity – no data available

Acute Dermal Toxicity - no data available

Acute Inhalation Toxicity - no data available

**Skin corrosion/irritation:**

Prolonged contact may cause skin to become dry or minor irritation.

**Serious eye damage/irritation:**

May cause irritation to the eyes.

**Respiratory or skin sensitisation:**

No information available on the mixture, however none of the components have been classified as a respiratory or skin sensitiser (or are below the concentration threshold for classification).

**Germ cell mutagenicity:**

No information available on the mixture, however none of the components have been classified for germ cell mutagenicity (or are below the concentration threshold for classification).

**Carcinogenicity:**

No information available on the mixture, however none of the components are listed as being



carcinogenic according to EU legislation such as Directive 2004/37/EC (carcinogens and mutagens).

**Reproductive toxicity:** No information available on the mixture, however none of the components have been classified for reproductive toxicity (or are below the concentration threshold for classification).

**STOT-single exposure:** No information available on the mixture, however none of the components have been classified for STOT SE (or are below the concentration threshold for classification).

**STOT-repeat exposure:** No information available on the mixture, however none of the components have been classified for STOT RE (or are below the concentration threshold for classification).

**Aspiration hazard:** No information available on the mixture, however none of the components have been classified for Aspiration hazard (or are below the concentration threshold for classification).

**SECTION 12: Ecological information**

**12.1 Toxicity:**

**Product data:** No data available

**Ingredient Information:**

Substance	Test Type	Species	Value
Blend of Alcohol paneths	LC <sub>50</sub>	Fish	5 - 10 mg/l, 96 hours
	LC <sub>50</sub>	Aquatic Invertebrates (Daphnia)	5 - 10 mg/l, 48 hours
	EC <sub>50</sub>	Algae	10 - 100 mg/l, 72 hours

**12.2 Persistence and degradability:**

No data available.

**12.3 Bioaccumulative potential:**

No data available.

**12.4 Mobility in soil:**

No data available.

**12.5 Results of PBT and vPvB assessment:**

No data available.

**12.6 Other adverse effects:**

No data available.

**12.7 Additional information:**

No data available.

**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods:**

This product, in its present state, when discarded or disposed of, may be a hazardous waste according to LoW.

Dispose in accordance with all applicable regulations.

See Sections 7 and 8 for information on handling, storage and personal protection and Section 9 for physical/chemical properties.

**SECTION 14: Transport Information**

**14.1. UN number:** This material is not classified

**14.2. UN proper shipping name:** Not applicable

**14.3. Transport hazard class(es):** Not applicable

**14.4. Packing group:** Not applicable

**14.5. Environmental hazards:** Not a marine pollutant

**14.6. Special precautions for user:** None known

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code.**

No further relevant information available.

**SECTION 15: Regulatory Information**

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture.**

Classification according to Regulation (EC) No 1272/2008 [CLP]: Product is classified as hazardous under CLP.

European Inventory of Existing Commercial Chemical Substances (EINECS): Product is not listed (although components of this mixture may be listed).

**15.2 Chemical Safety Assessment:**

No data available.

**SECTION 16: Other information**

**Indication of changes:** First issue.

**Full text of H-Statements referred to under sections 2 and 3.**

Eye Irrit. Eye irritation

H315 Causes skin irritation.

H318 Causes serious eye damage.

H412 Harmful to aquatic life with long lasting effects.

Revision Date: May 20, 2015

To the best of our knowledge, the information contained herein is accurate. However IDEAL INDUSTRIES INC. does not assume 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 which exist.

# SAFETY DATA SHEET

Product Name: Klein Kleeners Hand Cleaning Towels

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: Klein Kleeners Hand Cleaning Towels

Other Identifiers:

Recommended Use: For Skin Cleansing

SDS Supplier Address:

Dreumex USA, Inc.

3445 Board Road

York, PA 17406 USA

Emergency Phone: 800-233-9382

Non-Emergency Phone: 717-767-6881

Fax: 717-767-6888

Email: [dreumex@dreumex.com](mailto:dreumex@dreumex.com)

Website: [www.dreumex.com](http://www.dreumex.com)

Product Application: For hand cleansing

## SECTION 2: HAZARDS IDENTIFICATION

Classification:

Eye Damage/Irritation Category 2A



Signal Word:

Hazard Statement:

Precautionary Statement:

Prevention:

Response:

Warning

Causes serious eye irritation

Wash hands thoroughly 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

## SECTION 3: INFORMATION ON INGREDIENTS

Chemical Name: Wet wipe towel

Classification: Mixtures

This product meets the FDA definition of a cosmetic product.

Ingredient	Common Name/Synonyms	CAS Number	%
Poly(oxy-1,2-ethanediyl), a-undecyl-w-hydroxy-	Ethoxylated Alcohol Surfactant Tomadol 1-7 Undeceth-7	34398-01-1	1 – 5
Poly(oxy-1,2-ethanediyl), a-undecyl-w-hydroxy-	Ethoxylated Alcohol Surfactant Tomadol 1-3 Undeceth-3	34398-01-1	1 – 5
Sodium Xylene Sulfonate	Sodium Xylene Sulphonate	1300-72-7	1 - 5
PEG-5 Isodecyloxypropylamine	Ethoxylated Amine Tomamine E-14-5	68478-95-5	1 - 5
Remaining Ingredients	The specific chemical identity and/or exact percentage of composition has been withheld as a trade secret.		80 - 96

## SECTION 4: FIRST AID MEASURES

General Information

After Inhalation:

After Skin Contact:

It is unlikely that emergency treatment will be required.

Not a normal route of entry

Wash off with water.

# SAFETY DATA SHEET

Product Name: Klein Kleaners Hand Cleaning Towels

After Eye Contact:	Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing. If irritation persists: Get medical advice/attention.
After Swallowing:	Not a normal route of entry.
Most important symptoms and effects:	Contact with eyes may cause burning and redness.
Notes to Physician:	Treat symptomatically.

Indication of any immediate medical attention and special treatment needed: No further relevant information is available.

## SECTION 5: FIRE-FIGHTING MEASURES

### Extinguishing Media

Suitable Extinguishing agents: CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

### Specific hazards arising from the substance or mixture

Potential products of combustion Unknown

### Advice for Firefighters

Protective Equipment In case of insufficient ventilation, wear suitable respiratory equipment.

Additional Information Cool endangered containers with water spray.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions	Precautions not expected to be necessary
Environmental Precautions:	Do not allow to enter sewers, or surface or ground water.
Containment Methods:	Ensure adequate ventilation. Prevent further spread of any spilled material, if safe to do so.
Methods for clean up:	Absorb liquid components with liquid-binding material. Clean the affected area carefully with water.

## SECTION 7: HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with eyes.
Requirements to be met by store rooms and receptacles	
Storage Conditions	Store in a cool, dry location, out of direct sunlight.
Incompatible Material	None known based on information available
Additional Storage Information	No additional information is available

## SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

### Permissible or Recommended Exposure Limits for mixture

ACGIH	Undetermined
NIOSH	Undetermined
OSHA	Undetermined
Appropriate Engineering Controls	See section 7. No additional data available.

### Individual Protective Measures

General protective and hygienic measures:  
Wash hands before breaks and at the end of work.

# SAFETY DATA SHEET

Product Name: Klein Kleaners Hand Cleaning Towels

Respiratory Protection:	Not necessary if area is well ventilated.
Hand Protection:	Not generally required.
Eye Protection:	In case of splash risk, wear safety glasses.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### Appearance:

Form	Wet Wipe
Color	Orange Towel
Odor	Citrus
Odor Threshold	Not determined
pH Value	9.5
Specific Gravity	1.0

### Change in Condition:

Melting Point / Melting Range	Not determined
Boiling Point / Boiling Range	100°C / 212°F
Freezing Point	32°F (0°C)
Flash Point	>210°F (>99°C)
Flammability (solid, gas)	Not Applicable
Ignition Temperature	Not determined
Decomposition Temperature	Not determined
Self Igniting	Product is not self-igniting
Danger of Explosion	Not determined

Explosion Limits	Not determined
Vapor Pressure at 20°C	Not determined
Density at 20°C	Not determined
Relative Density	Not determined
Vapor Density	Not determined
VOC Contribution	0% by weight
Evaporation Rate	Not determined
Solubility in / Miscibility with water	Soluble (liquid portion)
Partition coefficient (n-octanol/water)	Not determined
Viscosity	
Dynamic	Not determined
Kinematic	Not determined

## SECTION 10: STABILITY AND REACTIVITY

Reactivity:	Normally non-reactive
Chemical Stability:	Stable if used as directed
Possibilities of Hazardous Reactions:	None known
Conditions to Avoid:	None known
Incompatible Materials:	None known
Hazardous Decomposition Products:	None known

## SECTION 11: TOXICOLOGICAL INFORMATION

Likely Routes of Exposure:	Skin, Eye
Symptoms of Exposure	
Skin Exposure	Long term or excessive use may cause dryness.
Eye Exposure	Contact will cause burning and irritation.

# SAFETY DATA SHEET

Product Name: Klein Kleanners Hand Cleaning Towels

Chronic Effects	None Known
Acute Toxicity	Not Tested
Carcinogenicity	None of the chemicals used in this product have been found to be carcinogenic by NTP, IARC, OSHA, or ACGIH

## SECTION 12: ECOLOGICAL INFORMATION

Toxicity	
Aquatic Toxicity	Not Tested
Persistence and Degradability	Not Tested
Behavior in Environmental Systems	
Bioaccumulative Potential	Not Tested
Mobility in Soil	Not Tested
Ecotoxicological Effects	
Behavior in Sewage Processing Plants	Not Tested

## SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of in accordance with applicable local, state and federal regulations.

## SECTION 14: TRANSPORTATION INFORMATION

UN Number	
DOT, IMDG, IATA	Unregulated
UN Proper Shipping Name	
DOT	Unregulated
IMDG	Unregulated
IATA	Unregulated
Environmental Hazard	
Marine Pollutant	Unknown
Special Precautions for the user	None

## SECTION 15: REGULATORY INFORMATION

All ingredients used in this product are listed in the TSCA Inventory.

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

This product meets the definition of a cosmetic per The US Food and Drug Administration.

## SECTION 16: OTHER INFORMATION

### HMIS:

Health: 1      Flammability: 0      Toxicity: 0      Personal Protection: not determined

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

### Abbreviations and acronyms:

DOT: Department of Transportation (USA)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
ICAO: International Civil Aviation Organization

## SAFETY DATA SHEET

Product Name: Klein Kleanners Hand Cleaning Towels

TSCA: Toxic Substance Control Act (USA)

CPR: Controlled Products Regulations (Canada)

GHS: Globally Harmonized System of Classification and Labeling of Chemicals

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

The information in this MSDS concerns the product mentioned in heading 1 and is given on the assumption that the product will be used in a way and for purposes indicated by the manufacturer.

The information above is believed to be accurate and represents the best information currently available to us. Users should make their own investigations to determine the suitability of the information for their particular purposes. It is recommendable to pass the information from this MSDS, if necessary adjusted, to personnel/ party concerned.

Prepared: November 14, 2012

Revised: March 17, 2015





## MATERIAL SAFETY DATA SHEET

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### SECTION I - SUPPLIER INFORMATION

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Product Name: Pitt Penn Premium Isopropyl Alcohol Gas Line Antifreeze  
Product Number: 802105  
Bulk Stock Number: 022760

Synonyms: IPA, Isopropanol  
Chemical Formula:  $\text{CH}_3\text{CHCH}_3\text{OH}$   
CAS Name & Number: Isopropyl Alcohol (67-63-0)  
Chemical Family: Aliphatic Alcohol

Supplier's Name & Address: Pitt Penn Oil Co.  
426 Freeport Road  
P.O. Box 296  
Creighton, PA 15030  
(724) 226-2712

Emergency Phone Number: Chem Tel, Inc. 1-800-255-3924 (24 hours)

Current Issue Date: August 27, 2003  
Date of Origination: March 12, 2002

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### SECTION II - HAZARDOUS INGREDIENT INFORMATION

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<u>Component</u>	<u>CAS #</u>	<u>Wt. %</u>	<u>TLV</u>	<u>PEL</u>
Isopropyl	67-63-0	100	400 ppm	400 ppm

Eye Contact: Moderately irritating  
Skin Contact: Mildly irritating  
Inhalation: May cause mild irritation of nose and respiratory tract. May result in central nervous system depression.  
Ingestion: Irritating to gastrointestinal tract, causing abdominal pain and vomiting, sometimes bloody. May cause central nervous system depression, low blood pressure, rapid heart rate and liver damage.

Pitt Penn Oil Co.

Product Name: Pitt Penn Premium Isopropyl Gas Line Antifreeze

Page 2 of 5

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### SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

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Boiling Point:	180°F (82°C)
Specific Gravity (Water=1):	0.789
Vapor Pressure (mm of Mercury):	32 @ 68°F
Melting Point:	-88°C (-127 ° F)
Solubility (in Water):	Totally miscible
Vapor Density (Air=1):	2.1
p.H.:	Not applicable
Percent Volatile (by Weight):	100%
Evaporation Rate (Butyl Acetate=1):	1.4
Molecular Weight:	60
Appearance:	Liquid
Odor:	Pungent alcohol odor.

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### SECTION IV - FIRE AND EXPLOSION DATA

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Special Fire Fighting Procedures:	Firefighters should use self-contained breathing apparatus with full face piece operated in pressure demand or other positive pressure mode, and wear full protective clothing.
Flashpoint and Method:	11°C (52°F) (closed cup)
Extinguishing Media:	Carbon dioxide, dry chemical, alcohol foam, and water.
Unusual Fire & Explosion Hazards:	Moderate explosion hazard and dangerous fire hazard when exposed to heat, sparks, or flames and can react vigorously with oxidizing agents.
Flammable Limits (% by volume):	2 LEL                      12 UEL
Autoignition Temperature:	400 ° C (750 ° F)

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### SECTION V - REACTIVITY DATA

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Stability:	Stable
Conditions and Materials to Avoid:	Heat, strong oxidizing agents
Hazardous Polymerization:	Will not occur
Hazardous Decomposition Products:	Toxic gases and vapors (i.e., carbon monoxide, formaldehyde) may be released.
Incompatibility:	Strong oxidizing agents such as nitrates, perchlorates or sulfuric acid.

---

SECTION VI - HEALTH HAZARD DATA/FIRST AID

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Medical conditions aggravated by overexposure include pre-existing eye, skin & respiratory conditions.  
ROUTES OF ENTRY/EMERGENCY AND FIRST AID PROCEDURES

- Eyes: Wash eyes immediately with running water for at least 15 minutes, lifting the lower and upper lids occasionally. Get medical attention as soon as possible.
- Skin: Remove contaminated clothing and wipe excess off. Wash affected area with soap and water; apply skin lotions. If skin irritation persists, get medical attention.
- Inhalation: Remove victim to fresh air at once. Restore and/or support breathing as required. Keep victim warm and at rest. Get medical attention as soon as possible.
- Ingestion: Get medical attention immediately. Induce vomiting with one (1) tablespoon of Ipecac or by touching the back of the throat (ONLY IF CONSCIOUS). Once vomiting has occurred, have the patient drink milk or water.
- Reproductive Effects: Reported to cause birth defects in rats exposed to 1,000 mg/kg
- Teratogenicity: No
- Metagenicity: No
- Carcinogenicity: Not listed with IARC, NTP, ACGIH or OSHA as a carcinogen.

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SECTION VII - PRECAUTIONS FOR SAFE HANDLING

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Precautions to be Taken in Handling and Storage:

Ground and electrically interconnect containers for transfer. Use spark proof tools. No smoking in areas of use or storage. Avoid prolonged or repeated breathing of vapor or contact with skin. Avoid contact with eyes. Contact lenses should not be worn while handling Isopropanol. Eye wash stations and safety showers should be available in area of use. Do not ingest! Store in a well-ventilated, fireproof area, away from sources of heat, open flame, and ignition.

- Other Precautions: Provide preplacement medical exams for industrially exposed workers, with emphasis on neurological and visual functions, liver and kidney systems. Provide suitable training to those working with Isopropanol. Monitor the workplace. Keep records.
- Registrations/Certifications: Not applicable

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SECTION VIII - SPECIAL PROTECTION AND CONTROL MEASURES

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PERSONAL PROTECTIVE EQUIPMENT

Pitt Penn Oil Co.

Product Name: Pitt Penn Premium Isopropyl Gas Line Antifreeze

Page 4 of 5

Eye Protection: Safety glasses with side shields or face shield.

Respiratory Protection: Any air supplied respirator or self-contained breathing apparatus.

Only NIOSH or OSHA approved equipment should be used.

Other: Impervious aprons, boots and face shields (8-inch min.) where splashing can occur.

#### VENTILATION

Local Exhaust: To meet TLV requirements, local exhaust should be used where vapor exposure is likely.

Mechanical (general): Controls must be spark proof and explosion proof.

Special: Not applicable

Other: Not applicable

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### SECTION IX - HANDLING OF SPILLS AND LEAKS

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#### STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

1. Remove all ignition sources.
2. Provide adequate ventilation.
3. Small quantities may be absorbed on paper towels. Evaporate in a safe place (such as fume hood). Large quantities can be collected and atomized in a suitable combustion chamber by approved disposal facility. Spills in sensitive areas may be diluted and flushed to ground with a water spray. Do not flush to sewer or other confined space.
4. Spills should be reported according to Federal, State and Local regulations.

Waste Disposal Methods: Absorb in vermiculite, dry sand, earth or a similar material and dispose in a secured sanitary landfill or dispose of via a licensed waste solvent disposal company.

Clean Water Act Requirements: Not applicable

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### SECTION X - TOXICOLOGICAL/ECOLOGICAL INFORMATION

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No data

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### SECTION XI - TRANSPORTATION DATA

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D.O.T.: Proper Shipping Name - Isopropanol  
Hazard Class - Flammable Liquid, Class 3, Packing Group II

Pitt Penn Oil Co.

Product Name: Pitt Penn Premium Isopropyl Gas Line Antifreeze

Page 5 of 5

Label Required - Flammable Liquid

Identification Number - UN-1219, Guide 129

Other Pertinent Information - See 45 CFR 172.101

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## SECTION XII - REGULATORY INFORMATION

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All components listed on TSCA inventory.

NFPA Rating: Health -2

Fire - 3

Reactivity - 0

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## SECTION XIII - USER INFORMATION

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The information and data herein are believed to be accurate and have been compiled from sources believed to be reliable. It is offered for your consideration, investigation, and verification. Buyer assumes all risk of use, storage and handling of the product in compliance with applicable Federal, State and Local laws and regulations.

Relating to any party's use of or reliance on information and data contained herein regardless of whether it is claimed that the information and data are inaccurate, incomplete or otherwise misleading, this information relates to the material designated and may not be valid for such material used in combination with any other materials or in any process.

**Safety Data Sheet:** Simple Green® All-Purpose Cleaner RTU Stimulus

**WPS -** 1097971

**Issuing Date:** No data available

**Revision Date:** 16-Apr-2015

**Revision Number:** 1

*In accordance with OSHA HCS-2012 / GHS*

## Section 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### PRODUCT IDENTIFIER

**Product Name:** Simple Green® All-Purpose Cleaner RTU Stimulus

### OTHER MEANS OF IDENTIFICATION

**Synonyms:** None

### RECOMMENDED USE OF THE CHEMICAL AND RESTRICTIONS ON USE

**Recommended use:** Cleaning Supplies – General Purpose Cleaner – non-aerosol

**Uses advised against:** No information available

### DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

**Supplier Name:** Sunshine Makers Inc.  
**Supplier Address:** 15922 Pacific Coast Highway  
Huntington Beach  
CA  
92649  
US  
**Supplier Phone Number:** Phone: 800-228-0709  
Fax: 562-592-3830  
Contact Phone: 562-795-6000  
**Supplier Email:** info@simplegreen.com

### EMERGENCY TELEPHONE NUMBER

**Chem-Tel 24-Hour Emergency Service:** 800-255-3924

## Section 2: HAZARDS IDENTIFICATION

### CLASSIFICATION

This chemical is NOT considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

### GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS

#### Emergency Overview

The product contains no substances which at their given concentration, are considered to be hazardous to health  
**Appearance:** Green      **Physical State:** Liquid      **Odor:** Herbal Fruity Type

**Hazard Statements:** None

**Signal Word:** None

**Symbol:** Not required

**Safety Data Sheet:** Simple Green® All-Purpose Cleaner RTU Stimulus

WPS - 1097971

Issuing Date: No data available

Revision Date: 16-Apr-2015

Revision Number: 1

*In accordance with OSHA HCS-2012 / GHS***Precautionary Statements – Prevention:** Obtain special instructions before use.**Precautionary Statements – Response:** None**Precautionary Statements – Storage:** None**Precautionary Statements – Disposal:** None**HAZARDS NOT OTHERWISE CLASSIFIED (HNOC)** Not applicable**UNKNOWN TOXICITY** The mixture does not consist of ingredient(s) of unknown toxicity.**OTHER INFORMATION**

Prolonged or repeated contact may dry skin.

**INTERACTIONS WITH OTHER CHEMICALS**

No information available.

**Section 3: COMPOSITION/INFORMATION ON INGREDIENTS**

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Weight Percent</u>	<u>Trade Secret</u>
Alcohols, C9-11, ethoxylated	68439-46-3	0.1 – 1	*
Sodium Citrate	6132-04-3	0.1 – 1	*
Sodium Carbonate	497-19-8	0.01 – 0.1	*
Tetrasodium N,N-bis(carboxylatomethyl)-L-glutamate	51981-21-6	0.01 – 0.1	*
Citric Acid	77-92-9	0.01 – 0.1	*
Preservative	55965-84-9	0.0001- 0.001	*

\* The exact percentage (concentration) of composition has been withheld as a trade secret

**Section 4: FIRST-AID MEASURES****FIRST AID MEASURES****Eye Contact:** Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician.**Skin Contact:** Wash skin with soap and water. In the case of allergic reactions see a physician.**Inhalation:** Remove to fresh air. If symptoms persist, call a physician.**Ingestion:** Do NOT induce vomiting. Drink plenty of water. If symptoms persist, call a physician.**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.**Section 5: FIRE-FIGHTING MEASURES****Suitable Extinguishing Media:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Safety Data Sheet:** Simple Green® All-Purpose Cleaner RTU Stimulus

**WPS -** 1097971

**Issuing Date:** No data available

**Revision Date:** 16-Apr-2015

**Revision Number:** 1

*In accordance with OSHA HCS-2012 / GHS*

**Unsuitable Extinguishing Media:** CAUTION: Use of water spray when fighting fire may be inefficient.

**Specific Hazards arising from the Chemical:** No information available.

**Hazardous Combustion Products:** Carbon oxides.

**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.

**Section 6: ACCIDENTAL RELEASE MEASURES**

**PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES**

**Personal Precautions:** Avoid contact with eyes.

**ENVIRONMENTAL PRECAUTIONS**

**Environmental Precautions:** Refer to protective measures listed in Sections 7 and 8.

**METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP**

**Method for Containment:** Prevent further leakage or spillage if safe to do so.

**Methods for Cleaning Up:** Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

**Section 7: HANDLING AND STORAGE**

**PRECAUTIONS FOR SAFE HANDLING**

**Handling:** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with eyes.

**PRECAUTIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES**

**Storage:** Keep container tightly closed.

**Incompatible Products:** None known based on information supplied.

**Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**

**CONTROL PARAMETERS**

**Exposure Guidelines:** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

**APPROPRIATE ENGINEERING CONTROLS**

**Engineering Measures:** Showers, Eyewash stations, Ventilation systems



**Safety Data Sheet:** Simple Green® All-Purpose Cleaner RTU Stimulus

WPS - 1097971

Issuing Date: No data available

Revision Date: 16-Apr-2015

Revision Number: 1

*In accordance with OSHA HCS-2012 / GHS***INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT****Eye/Face Protection:** Goggles or eye protection recommended.**Skin and Body Protection:** No special protective equipment required.**Respiratory Protection:** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety practice.**Section 9: PHYSICAL AND CHEMICAL PROPERTIES****PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical State:</b>	Liquid	<b>Odor:</b>	Fruity Herbal
<b>Appearance:</b>	Clear	<b>Odor Threshold:</b>	No information Available
<b>Color:</b>	Green		

<b><u>PROPERTY</u></b>	<b><u>VALUES</u></b>	<b><u>REMARKS/METHOD</u></b>
<b>pH:</b>	8.5 – 9.5	None Known
<b>Melting / freezing point:</b>	0°C	None Known
<b>Boiling point / boiling range:</b>	101°C / 212°F	None Known
<b>Flash Point:</b>	5001°C / 9034°F; non-flammable	None Known
<b>Evaporation Rate:</b>	No data available	None Known
<b>Flammability (solid, gas):</b>	No data available	None Known
<b>Upper Flammability Limit in Air:</b>	No data available	None Known
<b>Lower Flammability Limit in Air:</b>	No data available	None Known
<b>Vapor Pressure:</b>	No data available	None known
<b>Vapor Density:</b>	No data available	None known
<b>Specific Gravity:</b>	1.00 – 1.03	None known
<b>Water Solubility:</b>	Soluble in water	None known
<b>Solubility in other solvents:</b>	No data available	None known
<b>Partition coefficient: n-octanol/water:</b>	No data available	None known
<b>Autoignition temperature:</b>	No data available	None known
<b>Decomposition temperature:</b>	No data available	None known
<b>Kinematic viscosity:</b>	No data available	None known
<b>Dynamic viscosity:</b>	No data available	None known
<b>Explosive properties:</b>	No data available	None known
<b>Oxidizing properties:</b>	No data available	None known

**OTHER INFORMATION**

<b>Softening Point:</b>	No data available
<b>VOC Content (%):</b>	0.023%
<b>Particle Size:</b>	No data available
<b>Particle Size Distribution:</b>	No data available

**Section 10: STABILITY AND REACTIVITY****Reactivity:** No data available.

**Safety Data Sheet:** Simple Green® All-Purpose Cleaner RTU Stimulus

**WPS -** 1097971

**Issuing Date:** No data available

**Revision Date:** 16-Apr-2015

**Revision Number:** 1

*In accordance with OSHA HCS-2012 / GHS*

**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:** Acids, oxidizers, and chlorinated products.

**Hazardous Decomposition Products:** Carbon oxides.

**Section 11: TOXICOLOGICAL INFORMATION**

**INFORMATION ON LIKELY ROUTES OF EXPOSURE**

**Product Information:** Product does not present an acute toxicity hazard based on known or supplied information.

**Inhalation:** Specific test data for the substance or mixture is not available.

**Eye Contact:** Does not classify as an Eye Irritant per Ocular Irritation™ testing.

**Skin Contact:** Does not classify as a Dermal Irritant per Dermal Irritation™ testing.

**Ingestion:** Specific test data for the substance or mixture is not available.

**Component Information:** None supplied.

**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:** Contains no ingredient listed 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:** None known.

**Safety Data Sheet:** Simple Green® All-Purpose Cleaner RTU Stimulus

**WPS -** 1097971

**Issuing Date:** No data available

**Revision Date:** 16-Apr-2015

**Revision Number:** 1

*In accordance with OSHA HCS-2012 / GHS*

**Aspiration Hazard:** No information available.

**NUMERICAL MEASURES OF TOXICITY**

The following values are calculated based on chapter 3.1 of the GHS document.

**ATEmix (oral):** 20,000 mg/kg

**Section 12: ECOLOGICAL INFORMATION**

**Ecotoxicity:** The environmental impact of this product has not been fully investigated.

**Persistence and Degradability:** No information available.

**Bioaccumulation:** No information available.

**Other Adverse Effects:** No information available.

**Section 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

**Connecticut Hazardous Waste Codes:** CR04

**Michigan Hazardous Waste Codes:** 034L

**Washington Hazardous Waste Codes:** WT02

**Section 14: TRANSPORT INFORMATION**

**DOT**

**Proper Shipping Name:** Not Regulated.

**Hazard Class:** N/A.

**TDG**

**Proper Shipping Name:** Not Regulated.

**Hazard Class:** N/A.

**MEX**

**Proper Shipping Name:** Not Regulated.

**Hazard Class:** N/A.

**Safety Data Sheet:** Simple Green® All-Purpose Cleaner RTU Stimulus

**WPS -** 1097971

**Issuing Date:** No data available

**Revision Date:** 16-Apr-2015

**Revision Number:** 1

*In accordance with OSHA HCS-2012 / GHS*

**ICAO**

**Proper Shipping Name:** Not Regulated.

**Hazard Class:** N/A.

**IATA**

**Proper Shipping Name:** Not Regulated.

**Hazard Class:** N/A.

**IMDG/IMO**

**Proper Shipping Name:** Not Regulated.

**Hazard Class:** N/A.

**RID**

**Proper Shipping Name:** Not Regulated.

**Hazard Class:** N/A.

**ADR**

**Proper Shipping Name:** Not Regulated.

**Hazard Class:** N/A.

**ADN**

**Proper Shipping Name:** Not Regulated.

**Hazard Class:** N/A.

**Section 15: REGULATORY INFORMATION**

**INTERNATIONAL INVENTORIES**

**TSCA – United states Toxic Substances Control Act Section 8(b) Inventory:** Complies.

**DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List:** All components are listed either on the DSL or NDSL.

**US Consumer Product Safety commission Regulations**

This product is labeled in accordance with regulations administered by the Consumer Product Safety Commission (CPSC). However, the use pattern and exposure in the workplace are generally not consistent with those experienced by consumers. Therefore, the requirements of the Occupational Safety and Health Administration applicable to this SDS differ from the labeling requirements of the CPSC, and this SDS may contain additional health hazard information not pertinent to consumer use and not found on the product label.

**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:**

<b>Acute Health Hazard :</b>	No.
<b>Chronic Health Hazard:</b>	No.
<b>Fire Hazard:</b>	No.
<b>Sudden Release of Pressure Hazard:</b>	No.

**Safety Data Sheet:** Simple Green® All-Purpose Cleaner RTU Stimulus

**WPS -** 1097971

**Issuing Date:** No data available

**Revision Date:** 16-Apr-2015

**Revision Number:** 1

*In accordance with OSHA HCS-2012 / GHS*

**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 122.40).

**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.

**US STATE RIGHT-TO-KNOW REGULATIONS**

This product does not contain any substances regulated by state right-to-know regulations.

**INTERNATIONAL REGULATIONS**

**Canada – WHMIS Hazard Class:** Non-controlled

**Section 16: OTHER INFORMATION**

<b>NFPA:</b>	Health Hazards - 0	Flammability - 0	Instability - 0	Physical and Chemical Hazards - None
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<b>HMIS:</b>	Health Hazards - 0	Flammability - 0	Instability - 0	Physical and Chemical Hazards - X
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**Prepared / Revised By:** Sunshine Makers, Inc.  
15922 Pacific Coast Highway  
Huntington Beach, CA 92649  
1-800-228-0709

**Revision Date:** 16-Apr-2015

**Revision Note:** OSHA HCS 2012 SDS created

**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 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**

MATERIAL SAFETY DATA SHEET

WINDEX® ORIGINAL STREAK-FREE SHINE! GLASS CLEANER

Date Issued: 19Apr2007

Supersedes: 30Jun2006

US MANUFACTURER:

S.C. Johnson & Son, Inc.
Phone: (800) 725-6737
Racine, Wisconsin 53403-2236
Emergency Phone: (866) 231-5406
International Emergency Phone:
(952) 852-4647

CANADIAN MANUFACTURER:

S.C. Johnson and Son, Limited
Phone: (800) 725-6737
1 Webster Street
Brantford, Ontario N3T 5R1
Transportation Emergency:
CANUTEC (collect) (613) 996-6666
Poison Control: (866) 231-5406

Table with 4 columns: HAZARD RATING, HMIS, HAZARD, NFPA. Rows include 4-Very High, 3-High, 2-Moderate, 1-Slight, 0-Insignificant. Hazard categories include Health, Flammability, Reactivity, and Special.

DISTRIBUTED IN CANADA BY:
S.C. Johnson and Son, Limited
Phone: (800) 725-6737
1 Webster Street
Brantford, Ontario N3T 5R1

SECTION 1 - PRODUCT IDENTIFICATION

PRODUCT NAME..... WINDEX® ORIGINAL STREAK-FREE SHINE! GLASS CLEANER
REASON FOR CHANGE..... Section 4. Section 5. Section 7. Section 9. Section 10. Section 11. Section 15.
PRODUCT USE..... Home care: Cleaning product

SECTION 2 - INGREDIENT INFORMATION

Table with 3 columns: INGREDIENT, WEIGHT%, EXPOSURE LIMIT/TOXICITY. Rows include Ethylene glycol n-hexyl ether, Isopropanol, and Water.

SECTION 3 - HEALTH HAZARDS IDENTIFICATION (Also See Section 11)

ROUTE(S) OF ENTRY..... Eye contact. Skin contact. Ingestion. Inhalation.
EFFECTS OF ACUTE EXPOSURE:
EYE..... None known.
SKIN..... None known.
INHALATION..... None known.
INGESTION..... None known.
MEDICAL CONDITIONS..... None known.
GENERALLY RECOGNIZED AS BEING AGGRAVATED BY EXPOSURE

SECTION 4 - FIRST AID MEASURES

EYE CONTACT..... Rinse with plenty of water. If irritation develops, get medical attention.
SKIN CONTACT..... Wash contaminated area with water and soap. If irritation develops, get medical attention.
INHALATION..... Remove to fresh air.
INGESTION..... Do not administer anything by mouth to an unconscious person. Seek immediate medical attention.

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SECTION 5 - FIRE AND EXPLOSION INFORMATION

FLASH POINT..... 134°F (57°C) (TCC) Although this product has a flash point below 200°F, it is an aqueous solution containing an alcohol and does not sustain combustion.
FLAMMABLE LIMITS..... Not available.
AUTOIGNITION..... Not available.
TEMPERATURE
EXTINGUISHING MEDIA.... Foam. CO2. Dry chemical. Water fog.
SPECIAL FIREFIGHTING... Normal fire fighting procedure may be used. Fire fighters should wear self-contained breathing apparatus and protective clothing.
PROCEDURES
UNUSUAL FIRE AND..... Container may burst in heat of fire.
EXPLOSION HAZARDS

SECTION 6 - PREVENTIVE RELEASE MEASURES

STEPS TO BE TAKEN IN... Eliminate all ignition sources. Dike large spills. Absorb with CASE MATERIAL IS oil-dri or similar inert material. Sweep or scrape up and RELEASED OR SPILLED containerize.

SECTION 7 - HANDLING AND STORAGE

PRECAUTIONARY..... KEEP OUT OF REACH OF CHILDREN. INFORMATION
OTHER HANDLING AND..... Store in a cool, dry place with adequate ventilation. Wash STORAGE CONDITIONS thoroughly after handling. Observe good personal hygiene practices.

SECTION 8 - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION. No special requirements under normal use conditions.
VENTILATION..... General room ventilation adequate.
PROTECTIVE GLOVES..... No special requirements under normal use conditions.
EYE PROTECTION..... No special requirements under normal use conditions.
OTHER PROTECTIVE..... If major exposure is possible to eyes/skin, wear/use appropriate MEASURES protective equipment.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

COLOR..... Blue
PRODUCT STATE..... Liquid.
ODOR..... Ammonia-like
pH..... 10.5-11.0
ODOR THRESHOLD..... Not available.
SOLUBILITY IN WATER.... Complete
SPECIFIC GRAVITY..... ~ 1.0 (H2O=1)
VAPOR DENSITY (AIR=1).. Same as water.
EVAPORATION RATE (BUTYL ACETATE=1) Not available.
VAPOR PRESSURE (mm HG). Same as water.
BOILING POINT..... ~ 212°F (~ 100°C)
FREEZING POINT..... ~ 32°F (~ 0°C)
COEFFICIENT OF..... Not available. WATER/OIL
PERCENT VOLATILE BY.... > 98 VOLUME (%)
VOLATILE ORGANIC..... 3.4-3.5 COMPOUND (VOC)

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----- SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES (continued) -----

THEORETICAL VOC..... Not available.  
(LB/GAL)

----- SECTION 10 - STABILITY AND REACTIVITY -----

STABILITY..... Stable  
STABILITY - CONDITIONS. Excessive heat.  
TO AVOID  
INCOMPATIBILITY..... Avoid mixing with: Strong oxidizing materials (e.g. liquid chlorine).  
HAZARDOUS DECOMPOSITION PRODUCTS Produces normal products of combustion.  
HAZARDOUS..... Will not occur.  
POLYMERIZATION  
HAZARDOUS..... No special requirements.  
POLYMERIZATION -  
CONDITIONS TO AVOID

----- SECTION 11 - TOXICOLOGY INFORMATION (Also See Section 3) -----

LD50 (ACUTE ORAL TOX).. Estimated to be greater than 5000 mg/kg (rats).  
LD50 (ACUTE DERMAL TOX) Estimated to be greater than 2000 mg/kg. (rabbit)  
LC50 (ACUTE INHALATION TOX) > 2.5mg/L (rat)  
EFFECTS OF CHRONIC..... None known.  
EXPOSURE  
SENSITIZATION..... None known.  
CARCINOGENICITY..... None known.  
REPRODUCTIVE TOXICITY.. None known.  
TERATOGENICITY..... None known.  
MUTAGENICITY..... None known.

----- SECTION 12 - ECOLOGICAL INFORMATION -----

ENVIRONMENTAL DATA..... Not available.

----- SECTION 13 - DISPOSAL CONSIDERATIONS -----

WASTE DISPOSAL..... No special method. Observe all applicable Federal/ Provincial/  
INFORMATION State regulations and Local/ Municipal ordinances regarding disposal of non-hazardous materials.

----- SECTION 14 - TRANSPORTATION INFORMATION -----

US DOT INFORMATION..... Please refer to the Bill of Lading/receiving documents for up-to-date shipping information.  
CANADIAN SHIPPING NAME. WINDEX® ORIGINAL STREAK-FREE SHINE! GLASS CLEANER  
TDG CLASSIFICATION..... Not applicable.  
PIN/NIP..... Not applicable.  
PACKING GROUP..... Not applicable.  
EXEMPTION NAME..... EXEMPT AS PER TDG REGULATION 2.23.2(1)

----- SECTION 15 - REGULATORY INFORMATION -----

WHMIS CLASSIFICATION... B,3;



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----- SECTION 15 - REGULATORY INFORMATION (continued) -----

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

All ingredients in this product comply with the New Substances Notification requirements under the Canadian Environmental Protection Act (CEPA).

This product is not subject to the reporting requirements under California's Proposition 65.

----- SECTION 16 - OTHER INFORMATION -----

ADDITIONAL INFORMATION. Use as directed.  
EPA REGISTRATION #..... Not applicable.

----- PREPARATION INFORMATION -----

PREPARED BY..... Manufacturer's Technical Support Department. Refer to page 1  
(Manufacturer) for contact information.

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