# PARTS MASTER

## **MATERIAL SAFETY DATA SHEET**

#### **SECTION 1 - PRODUCT IDENTIFICATION AND USE**

CECTION & UAZADDOUG INODEDIENTO OF MATERIALO

Product Name:	
Product Class:	
WHMIS Classification:	

15W40 Lubricant Not controlled.

Supplier Name and Address:

Aftermarket Auto Parts Alliance, Inc. San Antonio, TX 78258. USA

(506) 633-3732 Phone: (506) 648-3060 **Emergency:** 

SECTION 2 - HAZARDOUS INGREDIENTS OF MATERIALS						
Hazardous Ingredients		CAS#	<u>wt%</u>	ACGIH-TLV	<u>LC<sub>50</sub></u>	<u>LD<sub>50</sub></u>
None				5 mg/m <sup>3</sup> (oil mist)		
				misty		
	SECTIO	N 3 - PHYSICAL		ID CHEMICAL	PROPERTIES	5
Form: Colour: Odour: Specific Gravity @ 15°C: Solubility:	Liquid Brown Petroleum 0.86 - 0.90 Negligible		Vap	our Pressure (mm atile (wt%):		.10
		SECTION 4 - FIR			ZARD	
Flammability: ⊠Yes ☐ N Flash Point : > 218°C (C		Conditions: Op	en flame ab	ove flash point.		
Upper Flammable Limit: Auto Ignition Temperature Sensitivity to Impact:	):	Not established. Not determined. None.		Lower Flammable TDG Flammability Sensitivity to Stati	Classification:	Not established. Not classified. None.
Means of Extinction: Hazardous Combustion P Special Procedures:	roducts:	Dry chemical, water Hydrogen sulphide a Water foam may ca breathing apparatus	and oxides o use frothing.	f carbon, nitrogen, s Use water to cool e	sulphur and phosp	phorus. rs. Use self-contained
SECTION 5 - REACTIVITY DATA						
Stability: Hazardous Polymerisatior Conditions to avoid: Incompatibility with other Hazardous decompositior	substances	Thermal deco and oxides of	h temperatur ng agents. mposition fro carbon, nitro	om high temperature ogen, sulphur and pl	nosphorus.	vill produce hydrogen sulphide
		SECTION 6 - TO	XICOLOC	BICAL PROPER	RTIES	
Route of Entry: DEye	🗵 Skin Cor	ntact 🔲 Skin Absor	ption 🗵 Ir	nhalation 🗵 Inges	stion	

Irritation to skin and eyes. Inhalation of hot oil mist or vapours may irritate the upper respiratory tract. Effects of Acute Exposure: Effects of Chronic Exposure: Repeated or prolonged exposure may cause dermatitis and/or oil acne. Long-term intensive exposure to oil mist may cause benign lung fibrosis. No specific toxicity data but extrapolation from similar materials indicates that this product has low oral toxicity.

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LPL0040.doc rev. 00 26-09-97

# **PARTS MASTER**

## **MATERIAL SAFETY DATA SHEET**

Exposure Limits: Reproductive Toxicity: Irritancy of Product:	5 mg/m <sup>3</sup> (oil mist) Not determined. Slight.	Carcinogenicity: Teratogenicity: Mutagenicity:	Not determined. Not determined. Not determined.
SEC	TION 7 - PREVEN	TATIVE AND CORRECTIVE ME	EASURES
Personal Protective Equipment:	Gloves: Eye: Respiratory: Footwear: Clothing: Other:	Oil/Chemical resistant. Chemical safety glasses or full face NOISH respirator if mist levels are I Oil/Chemical resistant. Oil/Chemical resistant if repeated e	
Engineering Controls: Leak and Spill Procedure: Waste Disposal: Storage Requirements Special Shipping Information:	Local exhaust at source of heated vapours. Contain spills with dikes or absorbent material. Eliminate fire hazards. Prevent from entering sewers or water courses. Vacuum liquid or transfer absorbed material into containers. Advise authorities. Follow local and governmental regulations. Not regulated as a hazardous waste. Cool, dry location. Keep containers closed. No special requirements.		

#### **SECTION 8 - FIRST AID MEASURES**

Inhalation:	Remove to fresh air or give artificial respiration. If breathing is difficult, give oxygen and seek medical attention.		
Ingestion:	Do not induce vomiting, give two glasses of water and seek medical attention.		
Eye:	Flush with water for 15 minutes.		
Skin:	Wash contaminated area with soap and water. Clean contaminated clothing before wearing again.		
General Advice:	High pressure injection under skin can be serious and requires urgent medical attention.		

#### **SECTION 9 - PREPARATION DATE OF MSDS**

Phone:

(506) 633-3732

MSDS Prepared by: Coastal Packaging Inc. MSDS Date: February 14, 2007 Revision 02

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MATERIAL SAFETY DATA SHEET



MSDS NO: 02002213

	MANUFACTURER, Amoco Oil Cor 200 East Pano Chicago,	npany EMERGENCY SPILL INFORMATION: (800) 424-9300 Toloh Drive CHEMTREC, U.S.A.
	IMPORTANT CON	MPONENTS: Gasoline (CAS 8006-61-9) ACGIH TLV 300 ppm, STEL 500 ppm; OSHA PEL 300 ppm, STEL 500 ppm. Benzene (CAS 71-43-2) ACGIH TLV 10 ppm; OSHA PEL 1 ppm (8-hr. TWA), STEL 5 ppm (15 min.). *See Supplemental Information Section.
	WARNING STAT	EMENT: Danger! Extremely flammable. High vapor concentrations can cause headaches, dizziness, drowsiness and nausea. Harmful if swallowed and/or aspirated into lungs. Can produce skin irritation on prolonged or repeated contact. Use as motor fuel only. Long-term exposure to vapors has caused cancer in laboratory animals.
	HMIS/NFPA CO	DES:(HEALTH;1)(FLAMMABILITY;3)(REACTIVITY;0), Chronic health hazard
	APPEARANCE A	ND ODOR: Clear, bright liquid. Characteristic odor.
<u> </u>		HEALTH HAZARD INFORMATION
		EYE
	EFFECT:	High concentrations of vapor/mist may cause eye discomfort.
	FIRST AID:	Flush eyes with plenty of water. Get medical attention if irritation persists.
	PROTECTION:	None required; however, use of eye protection is good industrial practice.
		SKIN
	EFFECT:	Prolonged or repeated contact can defat the skin and lead to irritation and/or dermatitis.
	FIRST AID:	Wash exposed skin with soap and water. Remove contaminated clothing, including shoes, and thoroughly clean and dry before reuse. Get medical attention if irritation develops.
	PROTECTION:	Avoid prolonged or repeated skin contact. Wear protective clothing and gloves if prolonged or repeated contact is likely.
		INHALATION
	EFFECT:	Vapour harmful. High vapor concentrations can cause headaches, dizziness, drowsiness and nausea. See Toxicology Section.
	FIRST AID:	If adverse effects occur, remove to uncontaminated area. Give artific a BPO respiration if not breathing. Get medical attention.
	PROTECTION:	Use with adequate ventilation. Avoid breathing vapor and/or mist. If ventilation is inadequate, use NIOSH/MSHA certified respirator which will protect against organic vapor/mist.

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UNLEADED REGULAR GASOLINE MSDS NO: 02002218

#### PAGE 02 OF 05

#### HEALTH HAZARD INFORMATION - CONTINUED

#### INGESTION

EFFECT: Low viscosity product. Harmful or fatal if aspirated into lungs.

FIRST AID: If swallowed, do NOT induce vomiting. Get immediate medical attention.

FIRE AND EXPLOSION INFORMATION

FLASHPOINT: -45°F

FLAMMABLE LIMITS: UPPER: 7.6% LOWER: 1.3%

AUTOIGNITION TEMPERATURE: 495°F

EXTINGUISHING MEDIA: Agents approved for Class B hazards (e.g., dry chemical, carbon dioxide, halogenated agents, foam, steam) or water fog.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Extremely flammable vapor/air mixtures form. Extinguishment of fire before source of vapor is shut off can create an explosive mixture in air.

PRECAUTIONS: Keep away from ignition sources (e.g., heat, sparks and open flames). Keep container closed. Use with adequate ventilation.

REACTIVITY INFORMATION \_\_\_\_

DANGEROUS REACTIONS: Avoid chlorine, fluorine and other strong oxidizers.

HAZARDOUS DECOMPOSITION: Burning can produce carbon monoxide and/or carbon dioxide and other harmful products.

STABILITY: Burning can be started easily.

CHEMICAL AND PHYSICAL PROPERTIES

BOILING POINT:	80°F TO	430°F
SOLUBILITY IN WATER:	Negligible,	below 0.1%.
SPECIFIC GRAVITY (WATE	ER = 1):	0.75
VAPOR PRESSURE: 7-15	1b RVP (ASTN	1 D-323)
VAPOR DENSITY (AIR = ]	L): 3 TC	) 4

#### PAGE 03 OF 05

#### STORAGE AND ENVIRONMENTAL PROTECTION

STORAGE REQUIREMENTS: Store in flammable liquids storage area. Keep container closed. Store away from heat, ignition sources, and open flame in accordance with applicable federal, state, or local regulations.

SPILLS AND LEAKS: Remove or shut off all sources of ignition. Use water spray to disperse vapors. Increase ventilation, if possible. Contain on an absorbent material (e.g., sand, sawdust, dirt, clay). Keep out of sewers and waterways.

WASTE DISPOSAL: Residues and spilled material are hazardous waste due to ignitability. Disposal must be in accordance with applicable federal, state, or local regulations. Enclosed-controlled incineration is recommended unless directed otherwise by applicable ordinances.

SPECIAL PRECAUTIONS: Keep out of sewers and waterways. Avoid strong oxidizers. Report spills to appropriate authorities. USE AS MOTOR FUEL ONLY.

TOXICOLOGICAL INFORMATION

EYE: Primary eye irritation score 0.0/110.0 (rabbits).

SKIN: Primary dermal irritation score 1.1/8.0 (rabbits). Acute dermal LD50 greater than 5ml/kg (rabbits). Practically nontoxic for acute exposures by this route.

INHALATION: Acute LC50 20.7mg/l (rats).

INGESTION: Acute oral LD50 18.8ml/kg (rats). Practically nontoxic for acute exposures by this route.

Excessive exposure to vapors may produce headaches, dizziness, nausea, drowsiness, irritation of eyes, nose and throat and central nervous system depression.

In a long-term inhalation study of whole unleaded gasoline vapors, exposurerelated kidney damage and kidney tumors were observed in male rats. Similar kidney effects were not seen in female rats or in mice. At the highest exposure level (2056 ppm), female mice had an increased incidence of liver tumors. Results from subsequent scientific studies suggest that the kidney damage and probably the kidney tumor response are unique to the male rat. The significance of the mouse liver tumor response in terms of human health is questionable.

Inhalation of whole unleaded gasoline vapors did not produce birth defects in laboratory animals.

Gasoline is a complex mixture of hydrocarbons and contains benzene (up to 4 volume %), toluene and xylene. Chronic exposure to high levels of benzene has been shown to cause cancer (leukemia) in humans and other adverse blood effects (anemia). Benzene is considered a human carcinogen by IARC, NTP and OSHA. Overexposure to xylene and toluene can cause irritation to the upper respiratory tract, headache and narcosis. Some liver damage and lung inflammation were seen in chronic studies on xylene in guinea pigs but not in rats.

Aspiration of this product into the lungs can cause chemical pneumonia and can be fatal. Aspiration into the lungs can occur while vomiting after ingestion of this product.

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	EADED REGULAR GASOLINE S NO: 02002213	'		2
		PAGE 04 OF 05		· .
	REGUL	ATORY INFORMATION		
CER	CLA REPORTABLE QUANTITY: This product is exempt from the Part 302.4. However, if spille be reportable under 33 CFR Part	CERCLA reporting re d into waters of the	e United States, it	CFR may
DOT	PROPER SHIPPING NAME: Gasoline,	Flammable Liquid, U	UN1203.	
OSH	A HAZARD COMMUNICATION STANDARD:	listed by ACGIH. (	Irritant. Contains Contains components carcinogenic compone	listed by
RCR	A STATUS: This product is subject to the disposal of certain hazardous w substance(s):			· ·
	COMPONENT/CAS NUMBER			
·	Ethylbenzene (100-41-4) Toluene (108-88-3) Xylene (1330-20-7)			
SAR/ )	A STATUS: This product is regulated under USC 9601. Spills or releases of the information given below:			
·	SECTIONS 311 AND 312 OF SARA AN This product is defined as haza		29 CFR Part 1910.12	200(d).
	SECTION 313 OF SARA AND 40 CFR This product contains the follo List in 40 CFR Part 372:		ich are on the Toxic	: Chemicals
	COMPONENT/CAS NUMBER		WEIGHT PERCENT	
	Benzene (71-43-2) Ethylbenzene (100-41-4) Toluene (108-88-3) Cyclohexane (110-82-7) Xylene (1330-20-7) MTBE (1634-04-4)		4 2 22 5 10 11	** 
TSC.	A STATUS: All of the components	of this product are	listed on the TSCA	Inventory.
	SUPPLE	MENTAL INFORMATION	· · · · · · · · · · · · · · · · · · ·	
	oline is a complex mixture of hyd upational exposure limits are:	rocarbons. Those ma	ajor components hav	ng

Butane (CAS 106-97-8) ACGIH TLV 800 ppm; OSHA PEL 800 ppm.

Cyclohexane (CAS 110-82-7) ACGIH TLV 300 ppm; OSHA PEL 300 ppm.

Ethylbenzene (CAS 100-41-4) ACGIH TLV 100 ppm, STEL 125 ppm; OSHA PEL 100 ppm, STEL 125 ppm.

UNLEADED REGULAR GASOLINE 1SDS NO: 02002213

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SUPPLEMENTAL INFORMATION - CONTINUED

n-Heptane (CAS 142-82-5) ACGIH TLV 400 ppm, STEL 500 ppm; OSHA PEL 400 ppm, STEL 500 ppm. n-Hexane (CAS 110-54-3) ACGIH TLV 50 ppm; OSHA PEL 50 ppm. Pentane (CAS 109-66-0) ACGIH TLV 600 ppm, STEL 750 ppm; OSHA PEL 600 ppm, STEL 750 ppm. Toluene (CAS 108-88-3) ACGIH TLV 100 ppm, STEL 150 ppm; OSHA PEL 100 ppm, STEL 150 ppm. Trimethyl benzene (CAS 25551-13-7) ACGIH TLV 25 ppm; OSHA PEL 25 ppm. Xylene (CAS 1330-20-7) ACGIH TLV 100 ppm, STEL 150 ppm; OSHA PEL 100 ppm, STEL 150 ppm.

ISSUE INFORMATION

BY: Heale S. Them

G. I. Bresnick, Director Product Stewardship & Toxicology ISSUED: August 14, 1992 SUPERSEDES: June 09, 1989

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This material safety data sheet and the information it contains is offered to you in good faith as accurate. We have reviewed any information contained in this data sheet which we received from sources outside our company. We believe that information to be correct but cannot guarantee its accuracy or completeness. Health and safety precautions in this data sheet may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. No statement made in this data sheet shall be construed as a permission or recommendation for the use of any product in a manner that might infringe existing patents. No warranty is made, either express or implied.



# **Safety Data Sheet**

# Section 1 – Identification

Product Identifier:	Cordless Fuel Cell
Manufacturer:	Paslode
	155 Harlen Avenue
	Glenview, IL 60025
Information Telephone Number:	800-222-6990
Information Facsimile Number:	847-247-4993
Information Email Address:	tech@paslode.com
<b>Emergency Telephone Number:</b>	Call CHEMTREC Day or Night
	Within U.S. and Canada: 1-800-424-9300
Outside	e U.S. and Canada: +1 703-527-3887 (collect calls accepted)
Recommended Use:	Fuel for ITW-affiliated brand cordless tools (see below).
<b>Restrictions on Use:</b>	Use only with Paslode, Duo-Fast, Ramset, and Spit cordless tools.

# Section 2 – Hazard(s) Identification

GHS Classification:	Flammable aerosol, Category 1
	Gases Under Pressure - Liquefied gas
	Specific Target Organ Toxicity - Single Exposure Category 3
	Simple Asphyxiant
GHS Signal Word:	Danger
<b>GHS Hazard Statements:</b>	Extremely flammable aerosol.
	Contains gas under pressure; may explode if heated.
	May cause drowsiness or dizziness.
	May displace oxygen and cause rapid suffocation.
GHS Hazard Symbols:	
	$\wedge$ $\wedge$ $\wedge$

**GHS Precautionary Statements**:

## Prevention

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Keep out of the reach of children. Keep away from heat/sparks/open flames/hot surfaces -No smoking. Do not spray on an open flame or other ignition sources. Pressurized container: Do not pierce or burn, even after use. Avoid breathing fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area.

## Response

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

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

#### Ducto et fu

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

## Disposal

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

# Section 3 – Composition/Information on Ingredients (Fuel and Propellant)

Hazardous Component	CAS-No.	Weight %
1-butene (butylene)	106-98-9	0 - 80
propene (propylene)	115-07-1	20-100

Concentration ranges are declared because SDS applies to a group of substantially similar mixtures.

## **Section 4 – First-aid Measures**

## **Description of Necessary Measures:**

Description of faces	ssar y micasures.
Inhalation:	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
	If not breathing, provide artificial respiration. Get immediate medical attention.
Skin Contact:	IF ON SKIN: Frostbite may occur from contact with liquefied gas. In case of
	frostbite, wash with plenty of water; do not remove clothing. Get immediate
	medical attention. If frostbite not evident: Immediately remove/take off all
	contaminated clothing. Rinse skin with water/shower.
Eye Contact:	IF IN EYES: Frostbite may occur from contact with liquefied gas. Rinse eyes
	cautiously with plenty of water for several minutes. Remove contact lenses if
	present and easy to do. Get immediate medical attention.
Ingestion:	IF INGESTED: Frostbite may occur from contact with liquefied gas. Get
-	immediate medical attention.
Most Important Syr	nptoms/Effects:
<b>Immediate Effects:</b>	Direct contact with skin, eyes or internal tissues may result in frostbite. May
	cause drowsiness or dizziness if expelled fuel displaces oxygen in an enclosed,
	poorly ventilated space. Rapid suffocation may result.
<b>Delayed Effects:</b>	No significant effects are expected.
Indication of Immed	liate Medical
<b>Attention &amp; Special</b>	Treatment, if any: Treat symptomatically and supportively.

# Section 5 – Fire Fighting Measures

Suitable Extinguishing Media:	Water spray, foam, carbon dioxide or dry chemical.
Unsuitable Extinguishing Media:	Do not use water jet as an extinguisher as this will spread fire.
Specific Hazards:	Extremely flammable aerosol. Contains gas under pressure; may explode if heated.
	Thermal decomposition (combustion) may produce carbon monoxide and carbon dioxide.
Special Protective Equipment	
& Precautions for Fire-fighters:	Avoid contact or inhalation with material or combustion products. Use self-contained breathing apparatus in confined spaces. Eliminate all sources of ignition. Cool containers with water from unmanned hose holder at maximum distance. Isolate hazard area and deny entry to unauthorized persons.

# Section 6 – Accidental Release Measures

Personal Precautions, Protective	
Equipment & Emergency Procedures:	Eliminate all sources of ignition and isolate hazard area.
	Ventilate area to maximum extent possible. Wear appropriate chemical resistant clothing and eye protection.
	See Sections 5, 7, 8, and 11 of this Safety Data Sheet for additional information.
Methods & Materials for Containment	t
& Cleanup:	Contain fire-fighting water to maximum extent possible and do not flush fire-fighting water to surface water or sanitary sewer system. Place waste material in appropriate container and dispose of per Section 13 of this Safety Data Sheet.
Section 7 – Handling and S	torage

Precautions for Safe Handling:	Extremely flammable aerosol: Do not handle or use near extreme heat, sparks, open flames or hot surfaces. Pressurized container: Do not pierce or burn, even after use. Avoid breathing fume/gas/mist/vapors/spray. Wear appropriate personal protective equipment. Use only outdoors or in a well-ventilated area. For maximum number of tool cycles, use before date code on fuel cell.
Conditions for Safe Storage, includin	g
Incompatibilities:	Do not expose to temperatures exceeding 50°C/122°F. Store in a cool, dry place out of direct sunlight. Store in a well- ventilated area. See Section 10 of this Safety Data Sheet for incompatible materials.

# Section 8 – Exposure Controls/Personal Protection

# **Exposure Limits:**

Hazardous Component	OSHA PEL	ACGIH TLV
1-butene (butylene)	Not Established	250 (TWA)
propene (propylene)	Not Established	500 (TWA)
(PEL = Permissible Exposure Li	mit TLV = Threshold Limit Value	TWA = Time-Weighted Average)
Engineering Controls: Individual Protection Measure	-	ange when used with installation tools.
Eye/Face Protection: Skin Protection:	installation tools. Chemical resistant clothir	side shields when used with ng not required during normal use with priate gloves and protective outerwear
Respiratory Protection:appropriate for the physical hazards typically encountered of construction sites is recommended.Not required during normal use with installation tools in w ventilated areas or outdoors. Self-contained breathing apparatus required in confined spaces.		nmended. al use with installation tools in well- ors. Self-contained breathing fined spaces.
Other Protection:	Provide first-aid supplies	for significant contact injuries.

# Section 9 – Physical and Chemical Properties

Appearance:	Colorless gas	Upper/Lower Explosive Limits:	ca. 2-10% in air
Odor:	Faintly olefinic	Vapor Pressure: ca. 50-	175 psig at 70°F
Odor Threshold:	ca. 30 mg/m <sup>3</sup>	Vapor Density (air = 1):	ca. 1.5
pH:	Not applicable	<b>Relative Density</b> ( $H_20=1$ ): ca. 0.	6 - liquefied gas
Melting Point/Freezing Point:	ca300°F	Solubility:	Slight
Initial Boiling Point/Range:	ca50°F	<b>Partition Coefficient (Oct/H<sub>2</sub>O):</b>	$K_{ow} = ca. 2$
Flash Point:	ca160°F	Auto-Ignition Temperature:	ca. 800°F
Evaporation Rate:	Not applicable	<b>Decomposition Temperature:</b>	Not available
Flammability:	Flammable gas	Viscosity:	Not applicable
	ca = circa (i.e	e., approximately)	

# Section 10 – Stability and Reactivity

Chemical Stability:SPossibility of Hazardous Reactions:NConditions to Avoid:H	No significant reactivity known. Stable under normal conditions of use. No significant possibility under normal conditions of use. Extreme heat, sparks, open flames or hot surfaces. Strong acids, halogens, and oxidizing agents. Carbon monoxide and carbon dioxide.
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# Section 11 – Toxicological Information

# Acute and Chronic Toxicity:

Component Analysis - LD50/LC50:

The components of this material have been reviewed in various sources and the following selected endpoints are published:

1-butene (C.	AS 106-98-9)	LC50 (rat) = 658 mg/L (4 hour)
propene (CA	AS 115-07-1)	LC50 (rat) = 658 mg/L (4 hour)
<b>Immediate Effects:</b>	Direct contact wit	h skin, eyes or internal tissues may result in frostbite. May
	cause drowsiness	or dizziness if expelled fuel displaces oxygen in an enclosed,
	poorly ventilated	space. Rapid suffocation may result.
<b>Delayed Effects:</b>	No significant eff	ects are expected. Propene listed as IARC-3/ACGIH TLV-A4.

## Likely Routes of Exposure:

Inhalation:	May cause drowsiness or dizziness if expelled fuel displaces oxygen in an enclosed, poorly ventilated space. Rapid suffocation may result.	
Skin Contact:	Contact with liquefied gas may cause frostbite.	
Eye Contact:	Contact with liquefied gas may cause frostbite.	
Ingestion:	Contact with liquefied gas may cause frostbite.	
Irritation/Corrosivity Data:	No data available.	
<b>Respiratory Sensitization:</b>	No data available.	
<b>Dermal Sensitization:</b>	No data available.	
Germ Cell Mutagenicity:	No data available.	
<b>Reproductive Toxicity:</b>	No data available.	
STOT - Single Exposure:	No known effects beyond simple asphyxiation.	
STOT - Repeated Exposure:	No known effects.	
(STOT = Specific Target Organ Toxicity)		
Aspiration Hazard:	No data available.	
Medical Conditions Aggravated		
by Exposure:	None known.	

# **Section 12 – Ecological Information**

Ecotoxicity: Persistence and degradability:	No significant ecotoxic effects are expected. Material is gaseous under atmospheric conditions and expected to dissipate primarily into the air when released into the environment. Material components are readily degradable based upon a variety of studies.
<b>Bioaccumulative Potential:</b>	Not expected to bioaccumulate.
Mobility in Soil:	Material is gaseous under atmospheric conditions and not expected to adsorb to or be absorbed by soils.
Other Adverse Effects:	None identified.

# Section 13 – Disposal Considerations

Dispose of or recycle contents/container in accordance with local/regional/national/international regulations. See U.S. Resource Conservation and Recovery Act (RCRA) discussion in Section 16 of this Safety Data Sheet.

Section 14 – Transport In	formation		
U.S. DOT INFORMATION (ground	shipment)*		
PROPER SHIPPING NAME	Aerosols, LTD QTY		
HAZARD CLASS:	2.1	<b>PRODUCT RQ (lbs):</b>	none
<b>UN NUMBER:</b>	UN1950	LABEL:	none
IMDG INFORMATION (vessel ship	ment)*		
PROPER SHIPPING NAME	Aerosols, LTD QTY		
HAZARD CLASS:	2.1	<b>PRODUCT RQ (lbs):</b>	none
<b>UN NUMBER:</b>	UN1950	LABEL:	none
IATA INFORMATION (air shipmer	t)*		
PROPER SHIPPING NAME	Consumer Commodity		
HAZARD CLASS:	9	<b>PRODUCT RQ (lbs):</b>	none
<b>UN NUMBER:</b>	ID8000	LABEL:	Class 9

\* Strictly observe all applicable special provisions, packaging requirements, quantity limitations, stowage requirements, and consumer commodity/limited quantity considerations.

Section 15 – Regulatory Information		
<b>TSCA STATUS:</b> All components are included in the	TSCA Chemic	al Inventory
CERCLA REPORTABLE QUANTITY: nor		ar mventory.
	le	
SARA TITLE III:		
SECTION 302 EXTREMELY HAZA		STANCES: none
SECTION 311/312 HAZARD CATEC	<b>GORIES:</b>	
Acute Health	yes	
Chronic Health	no	
Fire	yes	
Reactive	no	
Sudden Release of Pressure	yes	
SECTION 313 TOXIC CHEMICALS	-	opylene) CAS No. 115-07-1
	· · · · · · · · · · · · · · · · · · ·	20-100% by weight
DCDA STATUS, If discorded in its pu		

**RCRA STATUS:** If discarded in its purchased form within the U.S., this product may be classified as a U.S. Environmental Protection Agency (EPA) RCRA D001 (ignitable)

hazardous waste. Even after use, the fuel cell remains pressurized by an extremely flammable propellant and may retain this hazardous waste characteristic. Waste generators must consider federal, state, and local hazardous waste regulations to determine a proper disposal method based on their status as a conditionally exempt, small quantity or large quantity generator per U.S. EPA or state-equivalent regulations. If discarded outside of the U.S. then classification, handling, and disposal of waste product must comply with all relevant international waste regulations.

CANADIAN STATUS: All components listed on Domestic Substances List (DSL).

**EUROPEAN UNION:** All components listed on European Inventory of Existing Commercial Chemical Substances (EINECS):

<b>Component</b>	EINECS No.
1-butene	203-449-2
propene	204-062-1

**STATE REGULATORY INFORMATION:** No component of fuel gas or propellant is included on California Proposition 65 lists as a carcinogen or reproductive toxin.

# **Section 16 – Other Information**

## Hazardous Materials Identification System (HMIS) Ratings:

Health: 1 Flammability: 4 Physical Hazards: 0 Personal Protection: **See Note below.** 

## Hazard Ratings: Severe to Minimal (4 to 0)

**Note:** Personal Protection rating to be supplied by user depending on conditions of use. Wear safety glasses with side shields when using this product with installation tools.

Date Prepared:	August 1-2016
Prepared By:	Paslode Product Safety Department

## **Disclaimer of Expressed and Implied Warranties**

The information in this document is believed to be correct as of the date issued. However, no warranty of merchantability, fitness for any particular purpose, or any other warranty is expressed or is to be implied regarding the accuracy or completeness of this information, the results to be obtained from the use of this information or the product, the safety of this product, or the hazards related to its use. This information and product are furnished on the condition that the person receiving them shall make his own determination as to the suitability of the product for his particular purpose and on the condition that he assumes the risk of his use thereof.

#### INDUSTRIAL FUEL COMPANY 25 IST AVE NE HICKORY, NG 28601

PHONE: 828-324-7887

#### MATERIAL SAFETY SHEET

A. PRODUCT ID	THE REAL PROPERTY OF			
	ENTIMONION			
PRODUCT: DI	ESEL FUEL			C.A.S. Number 68476346
TRADE NAMES /	SYNONYMS:			D.O.T. PROPER SHIPPING NAME:
IT O OF HAMPOY	No. @ Fuel C	Diasel Oit		DIESEL FUEL
		2, Home Meating (	D.O.T. HAZARD CLASS: 3	
		,		
CHEMICAL FAMI	LY:			D.O.T. IDENTIFICATION NO: NA-1993
	Petroleum Hy	drocarbon Distilla	te	PACKING GROUP III
				PLACARDS REQUIRED: FLAMMABLE
<b>B</b> PRECAUTION	IARY WARNIN	IG.		
CAUTION: No sn	naking or open	flames. Keep aw	ay from heat, sparks, fiemes	or other sources of Ignillon.
	- •			-
			se initation to eyes, skin or re	
	or contact. Ma	rmful if swallowed.	ASPIRATION HAZARD - C	an enter lungs and cause
damage.				
C. COMPOSITIO				
COMPONENT	C.A.S.	ONCENTRATIO		
	NUMBER	RANGE %/WT	EXPOSURE LIMIT	
Charlesh Due	64741-44-2	<b>70 -</b> 100%	400 DDM 7144	
Straight Run Middle Distillates	\$4/4I-94-Z	10+100%	400 PPM TWA	
Light Catalytic	64741-59-9	D - 30%	400 PPM TWA	
Cracked Distillate		0.00%		
			10 PPM PEL	
Nachthatena	64741-41-9	<3%	15 PPM STEL	
	•			
D. EMERGENCY	AND FIRST	AID PROCEDURE	\$	
EYE CONTACT:	If irritation or r	edness develops.	move victim away from expos	ure and into fresh air. Flush eyes with clean
water. If sympton				·····
8	•			
				clothing. Cleanse affected area(s) throughly
by washing with n	nild soap and v	vater and, if neces	sary, a waterless skin cleans	er. If irritation or redness develops and
parsista, seek me	dical attention.			
				posure develop, move victim away from source
				ention. If victim is not breathing, immediately
		athing difficulties o	levelop, oxygen should be ad	ministered by qualified personnel. Seek
immediate medior	al altention.			

INGESTION (SWALLOWING): ASPIRATION HAZARD -- Do not induce vomitting or give anything by mouth because this material can enter the lungs and cause severe lung damage. If victim is drowsy or unconscious, place on side with head down. If possible, do not leave victim unattended. Seek medical attention.

SIGN AND SYMPTOMS OF EXPOSURE:

INHALATION: Centrel hervous system effects may include one or more of following: headache, dizziness loss of appelite, weakness and loss of coordination. SKIN: May include pain or a feeling of heat, discoloration, swelling and blistering.

CARCINDGENICITY; This product contains a mixture of petroleum hydrocarbons called middle distallates (which means they buil between approximately 350 degrees F and 700 degrees F). Because of this broad

description, many products are considered middle distallates yet they are produced by a variety of different petroleum refining processes. Toxicology data developed on some middle distillates found that they caused positive responses in some mutagenicity tests and caused skin cancer when repeatedly applied to mice over their lifetime. This product may contain some middle distillates found to cause those adverse effects.

COMMENTS: NOTE TO PHYSICIANS. Exposure to high concentrations of this material (e.g. in enclosed spaces or with deliberate abuse) may be associated with cardiac arrhythmias. Epinephrine and other sympathomimetic drugs may initiate cardiac arrhythmias in persons exposed to this material. Other drugs with less arrhythmogenic potential should be considered, if sympathomimetic drugs are administered, observe for the development of cardiac arrhythmias.

#### E. HEALTH HAZARDS/ROUTE OF ENTRY

EYE CONTACT: This material may cause mild eye irritation. Direct contact with liquid or exposure to vapors or mists may cause stinging, tearing and redness.

SKIN CONTACT: This material may cause mild skin irristion. Prolonged or repeated contact may cause redness, burning and drying and cracking of the skin. Contact may result in skin absorption but symptoms of toxicity are not anticipated by this route atone under normal conditions of use. Persons with pre-existing skin disorders may be more susceptible to the effects of this material.

INHALATION (BREATHING): While this material has a low degree of toxicity, breathing high concentrations of vapors or misis may cause flushing, blurred vision, nausee and signs of nervous system depression (e.g. headachs, drowsiness, dizziness, loss of coordination and fatigue). Exposure to high concentrations may cause loss of consciousness, convulsions, respiratory collapse and death. Respiratory symptoms associated with pre-existing lung disorders (e.g. asthma like conditions) may be aggravated by exposure to this material.

INGESTION (SWALLOWING): ASPIRATION HAZARD — This material can enter the lungs during swallowing or vomiting and cause lung inflammation and damage. Ingestion of excessive quantities of this material may cause irritation of the digestive tract and signs of nervous system depression (e.g. headache, drowsiness, dizziness, loss of coordination and fatigue).

#### F. PERSONAL PROTECTIVE EQUIPMENT

VENTILATION: If current ventilation practices are not adequate to maintain airborne concentrations below the established exposure limits, additional ventilation or exhaust systems may be required.

RESPIRATORY PROTECTION: The use of respiratory protection is advised when concentrations exceed the established exposure limits. Depending on the airborne concentration, use a respirator or gas mask with appropriate cartridges and canisters (NIOSH approved, if available) or supplied air equipement.

PROTECTIVE GLOVES: The use of gloves impermeable to the specific material handled is advised to prevent skin contact and possible initiation.

EYE PROTECTION: Approved eye protection to safeguard against potential eye contact, irritation or injury is recommended.

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

#### G. REACTIVITY

STABILITY: Stable under normal conditions of use.

INCOMPATIBILITY: Avoid strong exidizing agents (peroxide, permanganate, dichromate, chlorine, etc.), strong acids, caustics and hatogens.

HAZARDOUS POLYMERIZATION: Will not occur.

HAZARDOUS REACTIONS/DECOMPOSITION PRODUCTS: Combusition may produce carbon monoxide, carbon dioxide and reactive hydrocarbons (aldehydes, aromatics, etc.)

CONDITIONS TO AVOID: Heat, sparks, open flame, static electricityor any other potential ignition sources should be avoided. Prevent vapor accumulation.

#### H. FIRE PROTECTION/HAZARD

FLASH POINT: METHOD 125 DEGREES F (CC) FLAMMABLE RANGE (APPROX) LEL: .0% UEL: 7.5% AUTO IGNITION RANGE 500 DEGREES F

EXTINGUISHING MEDIA: Carbon dioxide, dry chemical or foam. Water fog may be effective in small incipient fires. Streight water streams may spread flammable liquid. Water streams should be used to cool exposed containers and surfaces. Prevent any runoff from entering sewers or waterways. Firefighting personnel should wear self contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Liquid evaporates and forms vepor (fumes) which can catch fire and burn with explosive violence. Invisible vapor spreads easily and can be set on fire by many sources such as pilot lights, welding equipment and electrical motors and switches. Fire hazard is greater as liquid temperature rises above 65 degrees F.

NFPA Ratings: Health 0; Flammability 2; Reactivity 0

#### I. PHYSICAL AND CHEMICAL DATA

BOILING POINT: 350 - 680 DEGREES F MELTING POINT: Not Applicable SOLUBILITY IN WATER: Insoluble APPEARANCE & ODOR: Brownish blue green Itquid; kerosene odor. SPECIFIC GRAVITY: .0 VAPOR PRESSURE: 1MMHG@20DEGREES C VAPOR DENSITY (AIR =1) >1 PERCENT VOLATILE: Not Applicable

#### J. SPILL AND LEAK PROCEDURES

Report spills/releases to appropriate authorities in accordance with faderal, state and local regulations. U.S. Coast Guard Regulations require immediate reporting of any spill that enters or threatens to enter any waterway.

Keep all sources if ignition, sparks, flames, open lights and or hot surfaces away from spilled material. Stay upwind and away from spill. Isolate area and restrict entry to emergency response personnel. Stop spill/release if it can be done safely. Wear appropriate protective equipment as conditions warrant. Prevent spilled material from entering sewers, storm drains and any waterway. Use sand, soil or other inert material to dike and contain liquid. Liquid may be recovered by pumping up. Remaining material, i.e. sand, contaminated dirt, sorbent material must be picked up or excavated and disposed of in accordance with federal, state and local hexardous waste management regulations.

#### K. DISCLAIMER

The information and recommendations contained in this publication have been compiled from sources believed to be reliable and to represent the best current opinion on the subject at the time of publication. Since we cannot anticipate or control the many different conditions under which this information or our products may be used, we make no guarantee that the recommendations will be adequate for all individuals or situations. Each user of the product described herein should determine the suitability of the described product for his particular purpose and should comply with all federal and state rules and regulations concerning the described product.



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# SAFETY DATA SHEET

#### **SECTION 1**

PRODUCT AND COMPANY IDENTIFICATION

#### PRODUCT

Product Name:MOBIL SUPER 10W-30Product Description:Base Oil and AdditivesProduct Code:201510301015Intended Use:Engine oil

#### **COMPANY IDENTIFICATION**

Supplier:

EXXON MOBIL CORPORATION 22777 Springwoods Village Parkway Spring, TX 77389 USA Icy 6

24 Hour Health Emergency Transportation Emergency Phone Product Technical Information MSDS Internet Address 609-737-4411 800-424-9300 or 703-527-3887 CHEMTREC 800-662-4525 www.exxon.com, www.mobil.com

**SECTION 2** 

#### HAZARDS IDENTIFICATION

This material is not hazardous according to regulatory guidelines (see (M)SDS Section 15).

#### Other hazard information:

HAZARD NOT OTHERWISE CLASSIFIED (HNOC): None as defined under 29 CFR 1910.1200.

#### PHYSICAL / CHEMICAL HAZARDS

No significant hazards.

#### **HEALTH HAZARDS**

High-pressure injection under skin may cause serious damage. Excessive exposure may result in eye, skin, or respiratory irritation.

#### **ENVIRONMENTAL HAZARDS**

No significant hazards.

NFPA Hazard ID:	Health:	0	Flammability:	1	Reactivity:	0
HMIS Hazard ID:	Health:	0	Flammability:	1	Reactivity:	0

**NOTE:** This material should not be used for any other purpose than the intended use in Section 1 without expert advice. Health studies have shown that chemical exposure may cause potential human health risks which may vary



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from person to person.

**SECTION 3** 

#### COMPOSITION / INFORMATION ON INGREDIENTS

This material is defined as a mixture.

#### Hazardous Substance(s) or Complex Substance(s) required for disclosure

Name	CAS#		GHS Hazard Codes
		Concentration*	
BENZENAMINE, AR-NONYL-N-(NONYL PHENYL)-	36878-20-3	1 - < 5%	H413
SEVERELY HYDROTREATED HEAVY PARAFFINIC DISTILLATE	64742-54-7	5 - < 10%	H304
ZINC BIS(O,O-DIISOOCTYL) BIS(DITHIOPHOSPHATE)	28629-66-5	0.1 - < 1%	H315, H318, H401, H411

\* All concentrations are percent by weight unless material is a gas. Gas concentrations are in percent by volume.

As per paragraph (i) of 29 CFR 1910.1200, formulation is considered a trade secret and specific chemical identity and exact percentage (concentration) of composition may have been withheld. Specific chemical identity and exact percentage composition will be provided to health professionals, employees, or designated representatives in accordance with applicable provisions of paragraph (i).

#### SECTION 4 FIRST AID MEASURES

#### INHALATION

Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek if breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation.

#### SKIN CONTACT

Wash contact areas with soap and water. If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.

#### EYE CONTACT

Flush thoroughly with water. If irritation occurs, get medical assistance.

#### INGESTION

First aid is normally not required. Seek medical attention if discomfort occurs.

#### **SECTION 5**

#### FIRE FIGHTING MEASURES

#### **EXTINGUISHING MEDIA**

**Appropriate Extinguishing Media:** Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames.



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#### Inappropriate Extinguishing Media: Straight Streams of Water

#### **FIRE FIGHTING**

**Fire Fighting Instructions:** Evacuate area. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Firefighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel.

**Hazardous Combustion Products:** Aldehydes, Incomplete combustion products, Oxides of carbon, Smoke, Fume, Sulfur oxides

#### FLAMMABILITY PROPERTIES

Flash Point [Method]: 226°C (439°F) [ASTM D-92]Flammable Limits (Approximate volume % in air):LEL: 0.9UEL: 7.0Autoignition Temperature:N/D

#### **SECTION 6**

#### ACCIDENTAL RELEASE MEASURES

#### NOTIFICATION PROCEDURES

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations. US regulations require reporting releases of this material to the environment which exceed the applicable reportable quantity or oil spills which could reach any waterway including intermittent dry creeks. The National Response Center can be reached at (800)424-8802.

#### **PROTECTIVE MEASURES**

Avoid contact with spilled material. See Section 5 for fire fighting information. See the Hazard Identification Section for Significant Hazards. See Section 4 for First Aid Advice. See Section 8 for advice on the minimum requirements for personal protective equipment. Additional protective measures may be necessary, depending on the specific circumstances and/or the expert judgment of the emergency responders.

For emergency responders: Respiratory protection: respiratory protection will be necessary only in special cases, e.g., formation of mists. Half-face or full-face respirator with filter(s) for dust/organic vapor or Self Contained Breathing Apparatus (SCBA) can be used depending on the size of spill and potential level of exposure. If the exposure cannot be completely characterized or an oxygen deficient atmosphere is possible or anticipated, SCBA is recommended. Work gloves that are resistant to hydrocarbons are recommended. Gloves made of polyvinyl acetate (PVA) are not water-resistant and are not suitable for emergency use. Chemical goggles are recommended if splashes or contact with eyes is possible. Small spills: normal antistatic work clothes are usually adequate. Large spills: full body suit of chemical resistant, antistatic material is recommended.

#### SPILL MANAGEMENT

Land Spill: Stop leak if you can do it without risk. Recover by pumping or with suitable absorbent.

**Water Spill:** Stop leak if you can do it without risk. Confine the spill immediately with booms. Warn other shipping. Remove from the surface by skimming or with suitable absorbents. Seek the advice of a specialist before using dispersants.

Water spill and land spill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted. Note: Local regulations may prescribe or limit action to be taken.



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#### **ENVIRONMENTAL PRECAUTIONS**

Large Spills: Dike far ahead of liquid spill for later recovery and disposal. Prevent entry into waterways, sewers, basements or confined areas.

#### **SECTION 7**

#### HANDLING AND STORAGE

#### HANDLING

Avoid contact with used product. Prevent small spills and leakage to avoid slip hazard. Material can accumulate static charges which may cause an electrical spark (ignition source). When the material is handled in bulk, an electrical spark could ignite any flammable vapors from liquids or residues that may be present (e.g., during switch-loading operations). Use proper bonding and/or ground procedures. However, bonding and grounds may not eliminate the hazard from static accumulation. Consult local applicable standards for guidance. Additional references include American Petroleum Institute 2003 (Protection Against Ignitions Arising out of Static, Lightning and Stray Currents) or National Fire Protection Agency 77 (Recommended Practice on Static Electricity) or CENELEC CLC/TR 50404 (Electrostatics - Code of practice for the avoidance of hazards due to static electricity).

Static Accumulator: This material is a static accumulator.

#### STORAGE

The type of container used to store the material may affect static accumulation and dissipation. Do not store in open or unlabelled containers.

**SECTION 8** 

#### **EXPOSURE CONTROLS / PERSONAL PROTECTION**

#### EXPOSURE LIMIT VALUES

#### Exposure limits/standards (Note: Exposure limits are not additive)

Substance Name	Form	Limit / Standard			NOTE	Source
SEVERELY HYDROTREATED HEAVY PARAFFINIC DISTILLATE	Mist.	TWA	5 mg/m3		N/A	OSHA Z1
SEVERELY HYDROTREATED HEAVY PARAFFINIC DISTILLATE	Mist.	TWA	5 mg/m3		N/A	ACGIH

**Exposure limits/standards for materials that can be formed when handling this product:** When mists/aerosols can occur the following are recommended: 5 mg/m<sup>3</sup> - ACGIH TLV (inhalable fraction), 5 mg/m<sup>3</sup> - OSHA PEL.

NOTE: Limits/standards shown for guidance only. Follow applicable regulations.

No biological limits allocated.

#### **ENGINEERING CONTROLS**

The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Control measures to consider:

No special requirements under ordinary conditions of use and with adequate ventilation.



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#### PERSONAL PROTECTION

Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

**Respiratory Protection:** If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable. Types of respirators to be considered for this material include:

No special requirements under ordinary conditions of use and with adequate ventilation.

For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapor warning properties are poor, or if air purifying filter capacity/rating may be exceeded.

**Hand Protection:** Any specific glove information provided is based on published literature and glove manufacturer data. Glove suitability and breakthrough time will differ depending on the specific use conditions. Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions. Inspect and replace worn or damaged gloves. The types of gloves to be considered for this material include:

No protection is ordinarily required under normal conditions of use.

**Eye Protection:** If contact is likely, safety glasses with side shields are recommended.

**Skin and Body Protection:** Any specific clothing information provided is based on published literature or manufacturer data. The types of clothing to be considered for this material include:

No skin protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid skin contact.

**Specific Hygiene Measures:** 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. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

#### **ENVIRONMENTAL CONTROLS**

Comply with applicable environmental regulations limiting discharge to air, water and soil. Protect the environment by applying appropriate control measures to prevent or limit emissions.

#### **SECTION 9**

#### PHYSICAL AND CHEMICAL PROPERTIES

Note: Physical and chemical properties are provided for safety, health and environmental considerations only and may not fully represent product specifications. Contact the Supplier for additional information.

#### **GENERAL INFORMATION**

Physical State:LiquidColor:AmberOdor:CharacteristicOdor Threshold:N/D



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IMPORTANT HEALTH, SAFETY, AND ENVIRONMENTAL INFORMATION Relative Density (at 15 °C): 0.861 [ASTM D1298] Flammability (Solid, Gas): N/A Flash Point [Method]: 226°C (439°F) [ASTM D-92] Flammable Limits (Approximate volume % in air): LEL: 0.9 UEL: 7.0 Autoignition Temperature: N/D **Boiling Point / Range:** > 316°C (600°F) **Decomposition Temperature: N/D** Vapor Density (Air = 1): N/D Vapor Pressure: < 0.013 kPa (0.1 mm Hg) at 20 °C Evaporation Rate (n-butyl acetate = 1): N/D pH: N/A Log Pow (n-Octanol/Water Partition Coefficient): > 3.5 Solubility in Water: Negligible Viscosity: 64 cSt (64 mm2/sec) at 40 °C | 10.3 cSt (10.3 mm2/sec) at 100°C [ASTM D 445] Oxidizing Properties: See Hazards Identification Section.

#### **OTHER INFORMATION**

Freezing Point:N/DMelting Point:N/ADMSO Extract (mineral oil only), IP-346:< 3 %wt</th>

**SECTION 10** 

STABILITY AND REACTIVITY

**REACTIVITY:** See sub-sections below.

STABILITY: Material is stable under normal conditions.

**CONDITIONS TO AVOID:** Excessive heat. High energy sources of ignition.

MATERIALS TO AVOID: Strong oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS: Material does not decompose at ambient temperatures.

**POSSIBILITY OF HAZARDOUS REACTIONS:** Hazardous polymerization will not occur.

SECTION 11

TOXICOLOGICAL INFORMATION

#### INFORMATION ON TOXICOLOGICAL EFFECTS

Hazard Class	Conclusion / Remarks
Inhalation	
Acute Toxicity: No end point data for material.	Minimally Toxic. Based on assessment of the components.
Irritation: No end point data for material.	Negligible hazard at ambient/normal handling temperatures.
Ingestion	
Acute Toxicity: No end point data for material.	Minimally Toxic. Based on assessment of the components.
Skin	
Acute Toxicity: No end point data for material.	Minimally Toxic. Based on assessment of the components.



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Skin Corrosion/Irritation: No end point data for material.	Negligible irritation to skin at ambient temperatures. Based on assessment of the components.
Eye	
Lite	
Serious Eye Damage/Irritation: No end point data for material.	May cause mild, short-lasting discomfort to eyes. Based on assessment of the components.
Sensitization	
Respiratory Sensitization: No end point data for material.	Not expected to be a respiratory sensitizer.
Skin Sensitization: No end point data for material.	Not expected to be a skin sensitizer. Based on assessment of the components.
Aspiration: Data available.	Not expected to be an aspiration hazard. Based on physico- chemical properties of the material.
Germ Cell Mutagenicity: No end point data for material.	Not expected to be a germ cell mutagen. Based on assessment of the components.
Carcinogenicity: No end point data for material.	Not expected to cause cancer. Based on assessment of the components.
Reproductive Toxicity: No end point data for material.	Not expected to be a reproductive toxicant. Based on assessment of the components.
Lactation: No end point data for material.	Not expected to cause harm to breast-fed children.
Specific Target Organ Toxicity (STOT)	
Single Exposure: No end point data for material.	Not expected to cause organ damage from a single exposure.
Repeated Exposure: No end point data for material.	Not expected to cause organ damage from prolonged or repeated exposure. Based on assessment of the components.

#### OTHER INFORMATION For the product itself:

Diesel engine oils: Not carcinogenic in animals tests. Used and unused diesel engine oils did not produce any carcinogenic effects in chronic mouse skin painting studies.

Oils that are used in gasoline engines may become hazardous and display the following properties: Carcinogenic in animal tests. Caused mutations in vitro. Possible allergen and photoallergen. Contains polycyclic aromatic compounds (PAC) from combustion products of gasoline and/or thermal degradation products.

#### Contains:

Base oil severely refined: Not carcinogenic in animal studies. Representative material passes IP-346, Modified Ames test, and/or other screening tests. Dermal and inhalation studies showed minimal effects; lung non-specific infiltration of immune cells, oil deposition and minimal granuloma formation. Not sensitizing in test animals.

The following ingredients are cited on the lists below: None.

	REGULATORY LISTS SEAR	CHED
1 = NTP CARC	3 = IARC 1	5 = IARC 2B
2 = NTP SUS	4 = IARC 2A	6 = OSHA CARC

**SECTION 12** 

**ECOLOGICAL INFORMATION** 



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The information given is based on data for the material, components of the material, or for similar materials, through the application of bridging principals.

#### ECOTOXICITY

Material -- Not expected to be harmful to aquatic organisms.

#### MOBILITY

Base oil component -- Low solubility and floats and is expected to migrate from water to the land. Expected to partition to sediment and wastewater solids.

#### PERSISTENCE AND DEGRADABILITY

#### **Biodegradation:**

Base oil component -- Expected to be inherently biodegradable

#### **BIOACCUMULATION POTENTIAL**

Base oil component -- Has the potential to bioaccumulate, however metabolism or physical properties may reduce the bioconcentration or limit bioavailability.

#### **SECTION 13**

#### **DISPOSAL CONSIDERATIONS**

Disposal recommendations based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

#### **DISPOSAL RECOMMENDATIONS**

Product is suitable for burning in an enclosed controlled burner for fuel value or disposal by supervised incineration at very high temperatures to prevent formation of undesirable combustion products.

#### **REGULATORY DISPOSAL INFORMATION**

RCRA Information: The unused product, in our opinion, is not specifically listed by the EPA as a hazardous waste (40 CFR, Part 261D), nor is it formulated to contain materials which are listed as hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corrositivity or reactivity and is not formulated with contaminants as determined by the Toxicity Characteristic Leaching Procedure (TCLP). However, used product may be regulated.

**Empty Container Warning** Empty Container Warning (where applicable): Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. DO NOT PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

#### **SECTION 14**

#### **TRANSPORT INFORMATION**

LAND (DOT): Not Regulated for Land Transport



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LAND (TDG): Not Regulated for Land Transport

SEA (IMDG): Not Regulated for Sea Transport according to IMDG-Code

Marine Pollutant: No

AIR (IATA): Not Regulated for Air Transport

#### SECTION 15 REGULATORY INFORMATION

**OSHA HAZARD COMMUNICATION STANDARD:** This material is not considered hazardous in accordance with OSHA HazCom 2012, 29 CFR 1910.1200.

**Listed or exempt from listing/notification on the following chemical inventories:** AICS, DSL, ENCS, IECSC, KECI, PICCS, TCSI, TSCA

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

#### SARA (311/312) REPORTABLE GHS HAZARD CLASSES: None.

**SARA (313) TOXIC RELEASE INVENTORY:** This material contains no chemicals subject to the supplier notification requirements of the SARA 313 Toxic Release Program.

#### The following ingredients are cited on the lists below:

Chemical Name	CAS Number	List Citations
2-PENTANOL, 4-METHYL-, HYDROGEN PHOSPHORODITHIOATE, ZINC SALT	2215-35-2	15
SEVERELY HYDROTREATED HEAVY PARAFFINIC DISTILLATE	64742-54-7	17, 18, 19
ZINC BIS(O,O-DIISOOCTYL) BIS(DITHIOPHOSPHATE)	28629-66-5	15

#### --REGULATORY LISTS SEARCHED--

1 = ACGIH ALL	6 = TSCA 5a2	11 = CA P65 REPRO	16 = MN RTK
2 = ACGIH A1	7 = TSCA 5e	12 = CA RTK	17 = NJ RTK



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3 = ACGIH A2	8 = TSCA 6	13 = IL RTK	18 = PA RTK
4 = OSHA Z	9 = TSCA 12b	14 = LA RTK	19 = RI RTK
5 = TSCA 4	10 = CA P65 CARC	15 = MI 293	

Code key: CARC=Carcinogen; REPRO=Reproductive

**SECTION 16** 

#### OTHER INFORMATION

N/D = Not determined, N/A = Not applicable

#### **KEY TO THE H-CODES CONTAINED IN SECTION 3 OF THIS DOCUMENT (for information only):**

- H304: May be fatal if swallowed and enters airways; Aspiration, Cat 1
- H315: Causes skin irritation; Skin Corr/Irritation, Cat 2
- H318: Causes serious eye damage; Serious Eye Damage/Irr, Cat 1
- H401: Toxic to aquatic life; Acute Env Tox, Cat 2

H411: Toxic to aquatic life with long lasting effects; Chronic Env Tox, Cat 2

H413: May cause long lasting harmful effects to aquatic life; Chronic Env Tox, Cat 4

#### THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS:

Composition: Component Table information was modified.

Section 01: Company Contact Methods information was modified.

Section 01: Company Mailing Address information was modified.

Section 01: Product Code information was modified.

Section 05: Hazardous Combustion Products information was modified.

Section 07: Handling and Storage - Handling information was modified.

Section 07: Handling and Storage - Storage Phrases information was modified.

Section 08: Exposure Limits Table information was modified.

Section 09: Flash Point C(F) information was modified.

Section 09: Pour Point C(F) information was deleted.

Section 09: Relative Density information was modified.

Section 09: Vapor Pressure information was added.

Section 09: Viscosity information was modified.

Section 11: Chronic Tox - Product information was modified.

Section 12: information was modified.

Section 13: Disposal Considerations - Disposal Recommendations information was modified.

Section 14: Marine Pollutant information was modified.

Section 15: List Citations Table information was modified.

Section 15: National Chemical Inventory Listing information was modified.

Section 15: SARA (311/312) REPORTABLE GHS HAZARD CLASSES information was added.

Section 15: SARA (311/312) REPORTABLE HAZARD CATEGORIES information was deleted.

Section 16: HCode Key information was modified.

Section 16: MSN, MAT ID information was modified.

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The information and recommendations contained herein are, to the best of ExxonMobil's knowledge and belief, accurate and reliable as of the date issued. You can contact ExxonMobil to insure that this document is the most current available from ExxonMobil. The information and recommendations are offered for the user's consideration and examination. It is the user's responsibility to satisfy itself that the product is suitable for the intended use. If buyer repackages this product, it is the user's responsibility to insure proper health, safety and other necessary information is included with and/or on the container. Appropriate warnings and safe-handling procedures should be provided to



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Internal Use Only MHC: 0B, 0B, 0, 0, 0, 0

PPEC: A

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DGN: 7108691XUS (1027821)

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Product Name: MOBIL SUPER 10W-40 Revision Date: 08 Mar 2019 Page 1 of 11

# SAFETY DATA SHEET

#### **SECTION 1**

PRODUCT AND COMPANY IDENTIFICATION

#### PRODUCT

Product Name:MOBIL SUPER 10W-40Product Description:Base Oil and AdditivesProduct Code:201510301020, 97D092Intended Use:Engine oil

#### **COMPANY IDENTIFICATION**

Supplier:

EXXON MOBIL CORPORATION 22777 Springwoods Village Parkway Spring, TX 77389 USA Icy 6

24 Hour Health Emergency Transportation Emergency Phone Product Technical Information MSDS Internet Address 609-737-4411 800-424-9300 or 703-527-3887 CHEMTREC 800-662-4525 www.exxon.com, www.mobil.com

**SECTION 2** 

#### HAZARDS IDENTIFICATION

This material is not hazardous according to regulatory guidelines (see (M)SDS Section 15).

#### Other hazard information:

HAZARD NOT OTHERWISE CLASSIFIED (HNOC): None as defined under 29 CFR 1910.1200.

#### PHYSICAL / CHEMICAL HAZARDS

No significant hazards.

#### **HEALTH HAZARDS**

High-pressure injection under skin may cause serious damage. Excessive exposure may result in eye, skin, or respiratory irritation.

#### **ENVIRONMENTAL HAZARDS**

No significant hazards.

NFPA Hazard ID:	Health:	0	Flammability:	1	Reactivity:	0
HMIS Hazard ID:	Health:	0	Flammability:	1	Reactivity:	0

**NOTE:** This material should not be used for any other purpose than the intended use in Section 1 without expert advice. Health studies have shown that chemical exposure may cause potential human health risks which may vary



Product Name: MOBIL SUPER 10W-40 Revision Date: 08 Mar 2019 Page 2 of 11

from person to person.

**SECTION 3** 

#### COMPOSITION / INFORMATION ON INGREDIENTS

This material is defined as a mixture.

#### Hazardous Substance(s) or Complex Substance(s) required for disclosure

Name	CAS#		GHS Hazard Codes
		Concentration*	
BENZENAMINE, AR-NONYL-N-(NONYL PHENYL)-	36878-20-3	1 - < 5%	H413
SEVERELY HYDROTREATED HEAVY PARAFFINIC DISTILLATE	64742-54-7	10 - < 20%	H304
SOLVENT DEWAXED HEAVY PARAFFINIC DISTILLATE	64742-65-0	5 - < 10%	H304
ZINC BIS(O,O-DIISOOCTYL) BIS(DITHIOPHOSPHATE)	28629-66-5	0.1 - < 1%	H315, H318, H401, H411

\* All concentrations are percent by weight unless material is a gas. Gas concentrations are in percent by volume.

As per paragraph (i) of 29 CFR 1910.1200, formulation is considered a trade secret and specific chemical identity and exact percentage (concentration) of composition may have been withheld. Specific chemical identity and exact percentage composition will be provided to health professionals, employees, or designated representatives in accordance with applicable provisions of paragraph (i).

#### **SECTION 4**

#### FIRST AID MEASURES

#### INHALATION

Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek if breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation.

#### SKIN CONTACT

Wash contact areas with soap and water. If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.

#### EYE CONTACT

Flush thoroughly with water. If irritation occurs, get medical assistance.

#### INGESTION

First aid is normally not required. Seek medical attention if discomfort occurs.

#### **SECTION 5**

#### FIRE FIGHTING MEASURES

#### EXTINGUISHING MEDIA

**Appropriate Extinguishing Media:** Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames.



#### Inappropriate Extinguishing Media: Straight Streams of Water

#### **FIRE FIGHTING**

**Fire Fighting Instructions:** Evacuate area. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Firefighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel.

**Hazardous Combustion Products:** Aldehydes, Incomplete combustion products, Oxides of carbon, Smoke, Fume, Sulfur oxides

#### FLAMMABILITY PROPERTIES

Flash Point [Method]: 220°C (428°F) [ASTM D-92]Flammable Limits (Approximate volume % in air):LEL: 0.9UEL: 7.0Autoignition Temperature:N/D

#### **SECTION 6**

#### ACCIDENTAL RELEASE MEASURES

#### NOTIFICATION PROCEDURES

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations. US regulations require reporting releases of this material to the environment which exceed the applicable reportable quantity or oil spills which could reach any waterway including intermittent dry creeks. The National Response Center can be reached at (800)424-8802.

#### **PROTECTIVE MEASURES**

Avoid contact with spilled material. See Section 5 for fire fighting information. See the Hazard Identification Section for Significant Hazards. See Section 4 for First Aid Advice. See Section 8 for advice on the minimum requirements for personal protective equipment. Additional protective measures may be necessary, depending on the specific circumstances and/or the expert judgment of the emergency responders.

For emergency responders: Respiratory protection: respiratory protection will be necessary only in special cases, e.g., formation of mists. Half-face or full-face respirator with filter(s) for dust/organic vapor or Self Contained Breathing Apparatus (SCBA) can be used depending on the size of spill and potential level of exposure. If the exposure cannot be completely characterized or an oxygen deficient atmosphere is possible or anticipated, SCBA is recommended. Work gloves that are resistant to hydrocarbons are recommended. Gloves made of polyvinyl acetate (PVA) are not water-resistant and are not suitable for emergency use. Chemical goggles are recommended if splashes or contact with eyes is possible. Small spills: normal antistatic work clothes are usually adequate. Large spills: full body suit of chemical resistant, antistatic material is recommended.

## SPILL MANAGEMENT

Land Spill: Stop leak if you can do it without risk. Recover by pumping or with suitable absorbent.

**Water Spill:** Stop leak if you can do it without risk. Confine the spill immediately with booms. Warn other shipping. Remove from the surface by skimming or with suitable absorbents. Seek the advice of a specialist before using dispersants.

Water spill and land spill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be



Product Name: MOBIL SUPER 10W-40 Revision Date: 08 Mar 2019 Page 4 of 11

consulted. Note: Local regulations may prescribe or limit action to be taken.

#### **ENVIRONMENTAL PRECAUTIONS**

Large Spills: Dike far ahead of liquid spill for later recovery and disposal. Prevent entry into waterways, sewers, basements or confined areas.

#### SECTION 7 HANDLING AND STORAGE

#### HANDLING

Avoid contact with used product. Prevent small spills and leakage to avoid slip hazard. Material can accumulate static charges which may cause an electrical spark (ignition source). When the material is handled in bulk, an electrical spark could ignite any flammable vapors from liquids or residues that may be present (e.g., during switch-loading operations). Use proper bonding and/or ground procedures. However, bonding and grounds may not eliminate the hazard from static accumulation. Consult local applicable standards for guidance. Additional references include American Petroleum Institute 2003 (Protection Against Ignitions Arising out of Static, Lightning and Stray Currents) or National Fire Protection Agency 77 (Recommended Practice on Static Electricity) or CENELEC CLC/TR 50404 (Electrostatics - Code of practice for the avoidance of hazards due to static electricity).

Static Accumulator: This material is a static accumulator.

#### STORAGE

The type of container used to store the material may affect static accumulation and dissipation. Do not store in open or unlabelled containers.

#### **SECTION 8**

#### **EXPOSURE CONTROLS / PERSONAL PROTECTION**

#### EXPOSURE LIMIT VALUES

#### Exposure limits/standards (Note: Exposure limits are not additive)

Substance Name	Form	Limit / Standard		NOTE	Source	
SEVERELY HYDROTREATED HEAVY PARAFFINIC DISTILLATE	Mist.	TWA	5 mg/m3		N/A	OSHA Z1
SEVERELY HYDROTREATED HEAVY PARAFFINIC DISTILLATE	Inhalable fraction.	TWA	5 mg/m3		N/A	ACGIH
SOLVENT DEWAXED HEAVY PARAFFINIC DISTILLATE	Mist.	TWA	5 mg/m3		N/A	OSHA Z1
SOLVENT DEWAXED HEAVY PARAFFINIC DISTILLATE	Inhalable fraction.	TWA	5 mg/m3		N/A	ACGIH

**Exposure limits/standards for materials that can be formed when handling this product:** When mists/aerosols can occur the following are recommended: 5 mg/m<sup>3</sup> - ACGIH TLV (inhalable fraction), 5 mg/m<sup>3</sup> - OSHA PEL.

NOTE: Limits/standards shown for guidance only. Follow applicable regulations.

No biological limits allocated.

#### **ENGINEERING CONTROLS**

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The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Control measures to consider:

No special requirements under ordinary conditions of use and with adequate ventilation.

#### PERSONAL PROTECTION

Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

**Respiratory Protection:** If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable. Types of respirators to be considered for this material include:

No special requirements under ordinary conditions of use and with adequate ventilation.

For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapor warning properties are poor, or if air purifying filter capacity/rating may be exceeded.

**Hand Protection:** Any specific glove information provided is based on published literature and glove manufacturer data. Glove suitability and breakthrough time will differ depending on the specific use conditions. Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions. Inspect and replace worn or damaged gloves. The types of gloves to be considered for this material include:

No protection is ordinarily required under normal conditions of use.

Eye Protection: If contact is likely, safety glasses with side shields are recommended.

**Skin and Body Protection:** Any specific clothing information provided is based on published literature or manufacturer data. The types of clothing to be considered for this material include:

No skin protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid skin contact.

**Specific Hygiene Measures:** 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. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

#### ENVIRONMENTAL CONTROLS

Comply with applicable environmental regulations limiting discharge to air, water and soil. Protect the environment by applying appropriate control measures to prevent or limit emissions.

#### **SECTION 9**

#### PHYSICAL AND CHEMICAL PROPERTIES

Note: Physical and chemical properties are provided for safety, health and environmental considerations only and may not fully represent product specifications. Contact the Supplier for additional information.

GENERAL INFORMATION



Product Name: MOBIL SUPER 10W-40 Revision Date: 08 Mar 2019 Page 6 of 11

**Physical State:** Liquid Color: Amber Odor: Characteristic **Odor Threshold:** N/D IMPORTANT HEALTH, SAFETY, AND ENVIRONMENTAL INFORMATION Relative Density (at 15 °C): 0.867 [ASTM D4052] Flammability (Solid, Gas): N/A Flash Point [Method]: 220°C (428°F) [ASTM D-92] Flammable Limits (Approximate volume % in air): LEL: 0.9 UEL: 7.0 Autoignition Temperature: N/D **Boiling Point / Range:** > 316°C (600°F) Decomposition Temperature: N/D Vapor Density (Air = 1): N/D Vapor Pressure: < 0.013 kPa (0.1 mm Hg) at 20 °C Evaporation Rate (n-butyl acetate = 1): N/D pH: N/A Log Pow (n-Octanol/Water Partition Coefficient): > 3.5 Solubility in Water: Negligible Viscosity: 113 cSt (113 mm2/sec) at 40 °C | 15.6 cSt (15.6 mm2/sec) at 100°C [ASTM D 445] **Oxidizing Properties:** See Hazards Identification Section.

#### **OTHER INFORMATION**

Freezing Point:N/DMelting Point:N/APour Point:-27°C (-17°F) [ASTM D97]DMSO Extract (mineral oil only), IP-346:< 3 %wt</th>

**SECTION 10** 

#### STABILITY AND REACTIVITY

**REACTIVITY:** See sub-sections below.

**STABILITY:** Material is stable under normal conditions.

CONDITIONS TO AVOID: Excessive heat. High energy sources of ignition.

MATERIALS TO AVOID: Strong oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS: Material does not decompose at ambient temperatures.

POSSIBILITY OF HAZARDOUS REACTIONS: Hazardous polymerization will not occur.

**SECTION 11** 

#### TOXICOLOGICAL INFORMATION

#### INFORMATION ON TOXICOLOGICAL EFFECTS

Hazard Class	Conclusion / Remarks		
Inhalation			
Acute Toxicity: No end point data for material.	Minimally Toxic. Based on assessment of the components.		
Irritation: No end point data for material.	Negligible hazard at ambient/normal handling temperatures.		

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Product Name: MOBIL SUPER 10W-40 Revision Date: 08 Mar 2019 Page 7 of 11

Ingestion			
Acute Toxicity: No end point data for	Minimally Toxic. Based on assessment of the components.		
material.			
Skin			
Acute Toxicity: No end point data for	Minimally Toxic. Based on assessment of the components.		
material.			
Skin Corrosion/Irritation: No end point data	Negligible irritation to skin at ambient temperatures. Based on		
for material.	assessment of the components.		
Еуе			
Serious Eye Damage/Irritation: No end point	May cause mild, short-lasting discomfort to eyes. Based on		
data for material.	assessment of the components.		
Sensitization			
Respiratory Sensitization: No end point data	Not expected to be a respiratory sensitizer.		
for material.			
Skin Sensitization: No end point data for	Not expected to be a skin sensitizer. Based on assessment of the		
material.	components.		
Aspiration: Data available.	Not expected to be an aspiration hazard. Based on physico-		
	chemical properties of the material.		
Germ Cell Mutagenicity: No end point data	Not expected to be a germ cell mutagen. Based on assessment of		
for material.	the components.		
Carcinogenicity: No end point data for	Not expected to cause cancer. Based on assessment of the		
material.	components.		
Reproductive Toxicity: No end point data	Not expected to be a reproductive toxicant. Based on assessment		
for material.	of the components.		
Lactation: No end point data for material.	Not expected to cause harm to breast-fed children.		
Specific Target Organ Toxicity (STOT)			
Single Exposure: No end point data for	Not expected to cause organ damage from a single exposure.		
material.			
Repeated Exposure: No end point data for	Not expected to cause organ damage from prolonged or repeated		
material.	exposure. Based on assessment of the components.		

## OTHER INFORMATION

#### For the product itself:

Diesel engine oils: Not carcinogenic in animals tests. Used and unused diesel engine oils did not produce any carcinogenic effects in chronic mouse skin painting studies.

Oils that are used in gasoline engines may become hazardous and display the following properties: Carcinogenic in animal tests. Caused mutations in vitro. Possible allergen and photoallergen. Contains polycyclic aromatic compounds (PAC) from combustion products of gasoline and/or thermal degradation products.

#### **Contains:**

Base oil severely refined: Not carcinogenic in animal studies. Representative material passes IP-346, Modified Ames test, and/or other screening tests. Dermal and inhalation studies showed minimal effects; lung non-specific infiltration of immune cells, oil deposition and minimal granuloma formation. Not sensitizing in test animals.

#### The following ingredients are cited on the lists below: None.

--REGULATORY LISTS SEARCHED--



Product Name: MOBIL SUPER 10W-40 Revision Date: 08 Mar 2019 Page 8 of 11

1 = NTP CARC	3 = IARC 1	5 = IARC 2B
2 = NTP SUS	4 = IARC 2A	6 = OSHA CARC

#### **SECTION 12**

#### **ECOLOGICAL INFORMATION**

The information given is based on data for the material, components of the material, or for similar materials, through the application of bridging principals.

#### ECOTOXICITY

Material -- Not expected to be harmful to aquatic organisms.

#### MOBILITY

Base oil component -- Low solubility and floats and is expected to migrate from water to the land. Expected to partition to sediment and wastewater solids.

#### PERSISTENCE AND DEGRADABILITY

#### **Biodegradation:**

Base oil component -- Expected to be inherently biodegradable

#### **BIOACCUMULATION POTENTIAL**

Base oil component -- Has the potential to bioaccumulate, however metabolism or physical properties may reduce the bioconcentration or limit bioavailability.

#### **SECTION 13**

#### DISPOSAL CONSIDERATIONS

Disposal recommendations based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

#### **DISPOSAL RECOMMENDATIONS**

Product is suitable for burning in an enclosed controlled burner for fuel value or disposal by supervised incineration at very high temperatures to prevent formation of undesirable combustion products. Protect the environment. Dispose of used oil at designated sites. Minimize skin contact. Do not mix used oils with solvents, brake fluids or coolants.

#### **REGULATORY DISPOSAL INFORMATION**

RCRA Information: The unused product, in our opinion, is not specifically listed by the EPA as a hazardous waste (40 CFR, Part 261D), nor is it formulated to contain materials which are listed as hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corrositivity or reactivity and is not formulated with contaminants as determined by the Toxicity Characteristic Leaching Procedure (TCLP). However, used product may be regulated.

**Empty Container Warning** Empty Container Warning (where applicable): Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be



Product Name: MOBIL SUPER 10W-40 Revision Date: 08 Mar 2019 Page 9 of 11

taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. DO NOT PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

#### SECTION 14 TRANSPORT INFORMATION

- LAND (DOT): Not Regulated for Land Transport
- LAND (TDG): Not Regulated for Land Transport
- **SEA (IMDG):** Not Regulated for Sea Transport according to IMDG-Code

Marine Pollutant: No

**AIR (IATA):** Not Regulated for Air Transport

#### **SECTION 15**

**REGULATORY INFORMATION** 

**OSHA HAZARD COMMUNICATION STANDARD:** This material is not considered hazardous in accordance with OSHA HazCom 2012, 29 CFR 1910.1200.

Listed or exempt from listing/notification on the following chemical inventories: AICS, DSL, ENCS, IECSC, ISHL, KECI, PICCS, TCSI, TSCA

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

#### SARA (311/312) REPORTABLE GHS HAZARD CLASSES: None.

**SARA (313) TOXIC RELEASE INVENTORY:** This material contains no chemicals subject to the supplier notification requirements of the SARA 313 Toxic Release Program.

#### The following ingredients are cited on the lists below:

Chemical Name	CAS Number	List Citations
2-PENTANOL, 4-METHYL-, HYDROGEN PHOSPHORODITHIOATE, ZINC SALT	2215-35-2	15
SEVERELY HYDROTREATED HEAVY PARAFFINIC	64742-54-7	17, 18, 19



Product Name: MOBIL SUPER 10W-40 Revision Date: 08 Mar 2019 Page 10 of 11

DISTILLATE		
ZINC BIS(0,0-DIISOOCTYL)	28629-66-5	15
BIS(DITHIOPHOSPHATE)		

#### --REGULATORY LISTS SEARCHED--

1 = ACGIH ALL	6 = TSCA 5a2	11 = CA P65 REPRO	16 = MN RTK
2 = ACGIH A1	7 = TSCA 5e	12 = CA RTK	17 = NJ RTK
3 = ACGIH A2	8 = TSCA 6	13 = IL RTK	18 = PA RTK
4 = OSHA Z	9 = TSCA 12b	14 = LA RTK	19 = RI RTK
5 = TSCA 4	10 = CA P65 CARC	15 = MI 293	

Code key: CARC=Carcinogen; REPRO=Reproductive

**SECTION 16** 

OTHER INFORMATION

N/D = Not determined, N/A = Not applicable

#### KEY TO THE H-CODES CONTAINED IN SECTION 3 OF THIS DOCUMENT (for information only):

H304: May be fatal if swallowed and enters airways; Aspiration, Cat 1

H315: Causes skin irritation; Skin Corr/Irritation, Cat 2

H318: Causes serious eye damage; Serious Eye Damage/Irr, Cat 1

H401: Toxic to aquatic life; Acute Env Tox, Cat 2

H411: Toxic to aquatic life with long lasting effects; Chronic Env Tox, Cat 2

H413: May cause long lasting harmful effects to aquatic life; Chronic Env Tox, Cat 4

#### THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS:

Composition: Component Table information was modified.

Section 08: Exposure Limits Table information was modified.

Section 09: Pour Point C(F) information was modified.

Section 09: Relative Density information was modified.

Section 09: Viscosity information was modified.

Section 13: Disposal Considerations - Disposal Recommendations information was modified.

Section 15: National Chemical Inventory Listing information was modified.

The information and recommendations contained herein are, to the best of ExxonMobil's knowledge and belief, accurate and reliable as of the date issued. You can contact ExxonMobil to insure that this document is the most current available from ExxonMobil. The information and recommendations are offered for the user's consideration and examination. It is the user's responsibility to satisfy itself that the product is suitable for the intended use. If buyer repackages this product, it is the user's responsibility to insure proper health, safety and other necessary information is included with and/or on the container. Appropriate warnings and safe-handling procedures should be provided to handlers and users. Alteration of this document is strictly prohibited. Except to the extent required by law, republication or retransmission of this document, in whole or in part, is not permitted. The term, "ExxonMobil" is used for convenience, and may include any one or more of ExxonMobil Chemical Company, Exxon Mobil Corporation, or any affiliates in which they directly or indirectly hold any interest.

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Product Name: MOBIL SUPER 10W-40 Revision Date: 08 Mar 2019 Page 11 of 11

MHC: 0B, 0B, 0, 0, 0, 0

PPEC: A

DGN: 2004946XUS (1027833)

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# SAFETY DATA SHEET

SDS ID NO.: Revision Date 0127MAR019 03/19/2018

#### **1. IDENTIFICATION Product Name:** Marathon Petroleum Gasoline - All Grades Gasoline: Regular Unleaded Gasoline: Conventional Regular Unleaded Gasoline: Mid Synonym: Grade Unleaded Gasoline: Conventional Mid Grade Unleaded Gasoline: Premium Unleaded Gasoline: Conventional Premium Unleaded Gasoline: Sub-Octane Gasoline: Regular RBOB; Super RBOB; Premium RBOB; RBOB; Reformulated Blend Stock For Oxygenated Blending; 84 Octane Gasoline; CBOB; Premium CBOB; Conventional Blend Stock for Oxygenate Blending; Recreational Gasoline; Recreational Gasoline; Recreational Unleaded Gasoline; 89 Recreational Gasoline; Brand 89 Recreational Gasoline; 7.0 Max RVP 89 Recreational Gasoline; BR 7.0 Max RVP 89 Recreational Gasoline; 90 Recreational Gasoline; 90 Marina Gasoline; Brand EX 90 UL Recrtnl Gasoline; Brand 91 Recreational Gasoline; 91 Recreational Gasoline; 91 Marina Gasoline; 90 Octane Midgrade Gasoline with No Ethanol; 7.8# New York CBOB Gasoline Blend Grade; Non-Summer New York CBOB Gasoline Blend Grade 0125MAR019: 0126MAR019: 0134MAR019: 0313MAR019: 0314MAR019 **Product Code:** 0127MAR019 **Chemical Family: Complex Hydrocarbon Substance Recommended Use:** Fuel **Restrictions on Use:** All others. Manufacturer, Importer, or Responsible Party Name and Address: MARATHON PETROLEUM COMPANY LP

 Findlay, OH
 45840

 SDS information (M-F, 8-5 EST):
 1-419-421-3070

 Emergency Telephone (24/7):
 CHEMTREC:
 1-800-424-9300
 CCN#:
 13740

## 2. HAZARD IDENTIFICATION

#### **Classification**

#### **OSHA Regulatory Status**

**539 South Main Street** 

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids	Category 1
Skin corrosion/irritation	Category 2
Germ cell mutagenicity	Category 1B
Carcinogenicity	Category 1A
Reproductive toxicity	Category 2
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 1
Aspiration toxicity	Category 1

Acute aquatic toxicity	Category 2
Chronic aquatic toxicity	Category 2

#### Hazards Not Otherwise Classified (HNOC)

Static accumulating flammable liquid

#### Label elements

#### **EMERGENCY OVERVIEW**

#### Danger

EXTREMELY FLAMMABLE LIQUID AND VAPOR May accumulate electrostatic charge and ignite or explode May be fatal if swallowed and enters airways Causes skin irritation May cause respiratory irritation May cause genetic defects May cause genetic defects May cause cancer Suspected of damaging fertility or the unborn child Causes damage to organs (blood, blood-forming organs, immune system) through prolonged or repeated exposure Toxic to aquatic life with long lasting effects Appearance Clear yellow liquid Physical State Liquid Odor Hydrocarbon

#### **Precautionary Statements - Prevention**

Obtain special instructions before use Do not handle until all safety precautions have been read and understood Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking Keep container tightly closed Ground/bond container and receiving equipment Use explosion-proof electrical/ventilating/lighting/equipment Use only non-sparking tools. Take action to prevent static discharges Do not eat, drink or smoke when using this product Do not breathe mist/vapors/spray Use only outdoors or in a well-ventilated area Wear protective gloves/protective clothing/eye protection/face protection Wash hands and any possibly exposed skin thoroughly after handling

Avoid release to the environment

#### **Precautionary Statements - Response**

IF exposed, concerned or you feel unwell: Get medical attention IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower If skin irritation occurs: Get medical attention Wash contaminated clothing before reuse IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor if you feel unwell IF SWALLOWED: Immediately call a POISON CENTER or doctor Do NOT induce vomiting In case of fire: Use water spray, fog or regular foam for extinction Collect spillage

#### **Precautionary Statements - Storage**

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

#### Precautionary Statements - Disposal

Dispose of contents/container at an approved waste disposal plant

## **3. COMPOSITION/INFORMATION ON INGREDIENTS**

Gasoline is a complex combination of hydrocarbons consisting of paraffins, cycloparaffins, aromatic and olefinic hydrocarbons having molecular chains ranging in length from four to ten carbons. May contain small amounts of dye and other additives (>0.02%) which are not considered hazardous at the concentrations used.

#### **Composition Information:**

Name	CAS Number	% Concentration
Gasoline	86290-81-5	100
Heptane (mixed isomers)	142-82-5	2.5-26
Butane (mixed isomers)	106-97-8	0.5-19
Pentane (mixed isomers)	78-78-4	6.5-19
Hexane Isomers (other than n-Hexane)	107-83-5	2-12
Toluene	108-88-3	3-9.5
Xylene (mixed isomers)	1330-20-7	3.5-9.5
Benzene	71-43-2	0.1-4.9
n-Hexane	110-54-3	0.1-4.5
Cumene	98-82-8	0-4
1,2,4 Trimethylbenzene	95-63-6	1-4
Ethylbenzene	100-41-4	0.5-2.5
Cyclohexane	110-82-7	0-1.5
Octane	111-65-9	0-1.5
1,2,3-Trimethylbenzene	526-73-8	0-1
Naphthalene	91-20-3	0.1-0.5

Benzene concentration is percent by volume. All other concentrations are percent by weight unless material is a gas. Gas concentrations are in percent by volume.

## 4. FIRST AID MEASURES

#### **First Aid Measures**

General Advice:	In case of accident or if you feel unwell, seek medical advice immediately (show directions for use or safety data sheet if possible).
Inhalation:	Remove to fresh air. If not breathing, institute rescue breathing. If breathing is difficult, ensure airway is clear, give oxygen and continue to monitor. If heart has stopped, immediately begin cardiopulmonary resuscitation (CPR). Keep affected person warm and at rest. If symptoms occur get medical attention.
Skin Contact:	Immediately wash exposed skin with plenty of soap and water while removing contaminated clothing and shoes. May be absorbed through the skin in harmful amounts. Get medical attention if irritation persists. Any injection injury from high pressure equipment should be evaluated immediately by a physician as potentially serious (See NOTES TO PHYSICIAN).
	Place contaminated clothing in closed container until cleaned or discarded. If clothing is to be laundered, inform the person performing the operation of contaminant's hazardous properties. Destroy contaminated, non-chemical resistant footwear.
Eye Contact:	Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Gently remove contacts while

	flushing. Get medical attention if irritation persists.		
Ingestion:	Do not induce vomiting because of danger of aspirating liquid into lungs, causing serious damage and chemical pneumonitis. If spontaneous vomiting occurs, keep head below hip or if patient is lying down, turn body and head to side to prevent aspiration and monitor for breathing difficulty. Never give anything by mouth to an unconscious person. Keep affect person warm and at rest. GET IMMEDIATE MEDICAL ATTENTION.		
Most important signs and s	ymptoms, both short-term and delayed with overexposure		
Adverse Effects:	Irritating to the skin and mucous membranes. Symptoms may include redness, itching, and inflammation. May cause nausea, vomiting, diarrhea, and signs of nervous system depression: headache, drowsiness, dizziness, loss of coordination, disorientation and fatigue. Aspiration hazard. May cause coughing, chest pains, shortness of breath, pulmonary edema and/or chemical pneumonitis. Prolonged or repeated exposure may cause adverse effects on blood, blood-forming organs, and immune system. Repeated or prolonged skin contact may cause drying, reddening, itching and cracking.		
Indication of any immediate	medical attention and special treatment needed		
Notes To Physician:	INHALATION: This material (or a component) sensitizes the myocardium to the effects of sympathomimetic amines. Epinephrine and other sympathomimetic drugs may initiate cardiac arrhythmias in individuals exposed to this material. Administration of sympathomimetic drugs should be avoided.		
	SKIN: Leaks or accidents involving high-pressure equipment may inject a stream of material through the skin and initially produce an injury that may not appear serious. Only a small puncture wound may appear on the skin surface but, without proper treatment and depending on the nature, original pressure, volume, and location of the injected material, can compromise blood supply to an affected body part. Prompt surgical debridement of the wound may be necessary to prevent irreversible loss of function and/or the affected body part. High pressure injection injuries may be SERIOUS SURGICAL EMERGENCIES.		
	INGESTION: This material represents a significant aspiration and chemical pneumonitis hazard. Induction of emesis is not recommended.		

## **5. FIRE-FIGHTING MEASURES**

#### Suitable extinguishing media

For small fires, Class B fire extinguishing media such as CO2, dry chemical, foam (AFFF/ATC) or water spray can be used. For large fires, water spray, fog or foam (AFFF/ATC) can be used. Firefighting should be attempted only by those who are adequately trained and equipped with proper protective equipment.

#### Unsuitable extinguishing media

Do not use straight water streams to avoid spreading fire.

#### Specific hazards arising from the chemical

This product has been determined to be an extremely flammable liquid per the OSHA Hazard Communication Standard and should be handled accordingly. May accumulate electrostatic charge and ignite or explode. Vapors may travel along the ground or be moved by ventilation and ignited by many sources such as pilot lights, sparks, electric motors, static discharge, or other ignition sources at locations distant from material handling. Flashback can occur along vapor trail. For additional fire related information, see NFPA 30 or the Emergency Response Guidebook 128.

#### Hazardous combustion products

Smoke, carbon monoxide, and other products of incomplete combustion.

Explosion data Sensitivity to Mechanical Impact No. Sensitivity to Static Discharge Yes.

## Special protective equipment and precautions for firefighters

Firefighters should wear full protective clothing and positive-pressure self-contained breathing apparatus (SCBA) with a full face-piece, as appropriate. Avoid using straight water streams. Water may be ineffective in extinguishing low flash point fires, but can be used to cool exposed surfaces. Avoid excessive water spray application. Water spray and foam (AFFF/ATC) must be applied carefully to avoid frothing and from as far a distance as possible. Keep run-off water out of sewers and water sources.

#### Additional firefighting tactics

FIRES INVOLVING TANKS OR CAR/TRAILER LOADS: Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Cool containers with flooding quantities of water until well after the fire is out. Do not direct water at source of leak or safety devices; icing may occur. Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank. ALWAYS stay away from tanks engulfed in fire. For massive fire, use unmanned hose holders or monitor nozzles: if this is impossible, withdraw from area and let fire burn.

EVACUATION: Consider initial downwind evacuation for at least 1000 feet. If tank, rail car or tank truck is involved in a fire, ISOLATE for 5280 feet (1 mile) in all directions; also, consider initial evacuation of 5280 feet (1 mile) in all directions.

<u>NFPA</u>	Health 1	Flammability 3	Instability 0	Special Hazard -
	6. ACC	IDENTAL RELEAS	SE MEASURES	

Personal precautions:	Keep public away. Isolate and evacuate area. Shut off source if safe to do so. Eliminate all ignition sources.	
Protective equipment:	Use personal protection measures as recommended in Section 8.	
Emergency procedures:	Advise authorities and National Response Center (800-424-8802) if the product has entered a water course or sewer. Notify local health and pollution control agencies, if appropriate.	
Environmental precautions:	Avoid release to the environment. Avoid subsoil penetration. Ethanol in gasoline phase seperates in contact with water. Monitor downstream for dissolved ethanol or other appropriate indicators.	
Methods and materials for containment:	Contain liquid with sand or soil. Prevent spilled material from entering storm drains, sewers, and open waterways.	
Methods and materials for cleaning up:	Use suitable absorbent materials such as vermiculite, sand, or clay to clean up residual liquids. Recover and return free product to proper containers. When recovering free liquids ensure all equipment is grounded and bonded. Use only non-sparking tools.	

#### 7. HANDLING AND STORAGE

Safe Handling Precautions: NEVER SIPHON THIS PRODUCT BY MOUTH. Use appropriate grounding and bonding practices. Static accumulating flammable liquid. Bonding and grounding may be insufficient to eliminate the hazard from static electricity. Do not expose to heat, open flames, strong oxidizers or other sources of ignition. Vapors may travel along the ground or be moved by ventilation. Flashback may occur along vapor trails. No smoking. Use only non-sparking tools. Avoid contact with skin, eyes and clothing. Avoid breathing fumes, gas, or vapors. Use only with adequate ventilation. Avoid repeated and prolonged skin contact. Use personal protection measures as recommended in Section 8. Exercise good personal hygiene including removal of soiled clothing and prompt washing with soap and water. Do not cut, drill, grind or weld on empty containers since explosive residues may remain. Refer to applicable EPA, OSHA, NFPA and consistent state and local requirements. Hydrocarbons are basically non-conductors of electricity and can become electrostatically charged during mixing, filtering, pumping at high flow rates or loading and transfer operations. If this charge reaches a sufficiently high level, sparks can form that may ignite the vapors of flammable liquids. Sudden release of hot organic chemical vapors or mists from process equipment operating under elevated temperature and pressure, or sudden ingress of air into vacuum equipment may result in ignition of vapors or mists without the

presence of obvious ignition sources. Nozzle spouts must be kept in contact with the containers or tank during the entire filling operation.

Portable containers should never be filled while in or on a motor vehicle or marine craft. Containers should be placed on the ground. Static electric discharge can ignite fuel vapors when filling non-grounded containers or vehicles on trailers. The nozzle spout must be kept in contact with the container before and during the entire filling operation. Use only approved containers.

A buildup of static electricity can occur upon re-entry into a vehicle during fueling especially in cold or dry climate conditions. The charge is generated by the action of dissimilar fabrics (i.e., clothing and upholstery) rubbing across each other as a person enters/exits the vehicle. A flash fire can result from this discharge if sufficient flammable vapors are present. Therefore, do not get back in your vehicle while refueling.

Cellular phones and other electronic devices may have the potential to emit electrical charges (sparks). Sparks in potentially explosive atmospheres (including fueling areas such as gas stations) could cause an explosion if sufficient flammable vapors are present. Therefore, turn off cellular phones and other electronic devices when working in potentially explosive atmospheres or keep devices inside your vehicle during refueling.

High-pressure injection of any material through the skin is a serious medical emergency even though the small entrance wound at the injection site may not initially appear serious. These injection injuries can occur from high-pressure equipment such as paint spray or grease or guns, fuel injectors, or pinhole leaks in hoses or hydraulic lines and should all be considered serious. High pressure injection injuries may be SERIOUS SURGICAL EMERGENCIES (See First Aid Section 4).

**Storage Conditions:** Store in properly closed containers that are appropriately labeled and in a cool, well-ventilated area. Do not store near an open flame, heat or other sources of ignition.

**Incompatible Materials** 

Strong oxidizing agents.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	ACGIH TLV	OSHA PELS:	OSHA - Vacated PELs	NIOSH IDLH
Gasoline 86290-81-5	300 ppm TWA 500 ppm STEL	-	300 ppm TWA 900 mg/m <sup>3</sup> TWA 500 ppm STEL 1500 mg/m <sup>3</sup> STEL	-
Heptane (mixed isomers) 142-82-5	400 ppm TWA 500 ppm STEL	TWA: 500 ppm TWA: 2000 mg/m³	400 ppm TWA 1600 mg/m <sup>3</sup> TWA 500 ppm STEL 2000 mg/m <sup>3</sup> STEL	750 ppm
Butane (mixed isomers) 106-97-8	1000 ppm STEL	-	800 ppm TWA 1900 mg/m³ TWA	-
Pentane (mixed isomers) 78-78-4	1000 ppm TWA	-	-	-
Hexane Isomers (other than n-Hexane) 107-83-5	500 ppm TWA 1000 ppm STEL	-	500 ppm TWA 1800 mg/m <sup>3</sup> TWA 1000 ppm STEL 3600 mg/m <sup>3</sup> STEL	-
Toluene 108-88-3	20 ppm TWA	TWA: 200 ppm Ceiling: 300 ppm	100 ppm TWA 375 mg/m³ TWA 150 ppm STEL 560 mg/m³ STEL	500 ppm
Xylene (mixed isomers) 1330-20-7	100 ppm TWA 150 ppm STEL	TWA: 100 ppm TWA: 435 mg/m <sup>3</sup>	100 ppm TWA 435 mg/m³ TWA 150 ppm STEL 655 mg/m³ STEL	900 ppm
Benzene	0.5 ppm TWA	TWA: 10 ppm (applies to	25 ppm Ceiling	500 ppm

71-43-2	2.5 ppm STEL Skin - potential significant contribution to overall exposure by the cutaneous route	STEL: 5 ppm (see 29 CFR 1910.1028)	1 ppm TWA 5 ppm STEL	
n-Hexane 110-54-3	50 ppm TWA Skin - potential significant contribution to overall exposure by the cutaneous route	TWA: 500 ppm TWA: 1800 mg/m³	50 ppm TWA 180 mg/m³ TWA	1100 ppm
Cumene 98-82-8	50 ppm TWA	TWA: 50 ppm TWA: 245 mg/m³ Skin	50 ppm TWA 245 mg/m³ TWA Limit applies to skin	900 ppm
1,2,4 Trimethylbenzene 95-63-6	25 ppm TWA	-	25 ppm TWA 125 mg/m³ TWA	-
Ethylbenzene 100-41-4	20 ppm TWA	TWA: 100 ppm TWA: 435 mg/m³	100 ppm TWA 435 mg/m³ TWA 125 ppm STEL 545 mg/m³ STEL	800 ppm
Cyclohexane 110-82-7	100 ppm TWA	TWA: 300 ppm TWA: 1050 mg/m <sup>3</sup>	300 ppm TWA 1050 mg/m³ TWA	1300 ppm
Octane 111-65-9	300 ppm TWA	TWA: 500 ppm TWA: 2350 mg/m <sup>3</sup>	300 ppm TWA 1450 mg/m <sup>3</sup> TWA 375 ppm STEL 1800 mg/m <sup>3</sup> STEL	1000 ppm
1,2,3-Trimethylbenzene 526-73-8	25 ppm TWA	-	25 ppm TWA 125 mg/m³ TWA	-
Naphthalene 91-20-3	10 ppm TWA Skin - potential significant contribution to overall exposure by the cutaneous route		10 ppm TWA 50 mg/m³ TWA 15 ppm STEL 75 mg/m³ STEL	250 ppm
Notes:				
Engineering measures:		xhaust required in an end echanical ventilation equ		
Personal protective equipment	<u>nt</u>			
Eye protection:	Use goggles or face-shield if the potential for splashing exists.			
Skin and body protection:	Use nitrile rubber, Viton® or PVA gloves for repeated or prolonged skin exposure. Glove suitability is based on workplace conditions and usage. Contact the glove manufacturer for specific advice on glove selection and breakthrough times.			
Respiratory protection:	Use a NIOSH approved organic vapor chemical cartridge or supplied air respirators when there is the potential for airborne exposures to exceed permissible exposure limits or if excessive vapors are generated. Observe respirator assigned protection factors (APFs) criteria cited in federal OSHA 29 CFR 1910.134. Self-contained breathing apparatus should be used for fire fighting.			
Hygiene measures:	Handle in accorda skin, eyes and clo	nce with good industrial l thing.	hygiene and safety pract	ice. Avoid contact with

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic	physical and chemical properties
Physical State	Liquid
Appearance	Clear yellow liquid

Color Odor Odor Threshold	Yellow Hydrocarbon No data available.
Property Melting Point / Freezing Point Initial Boiling Point / Boiling Range Flash Point Evaporation Rate Flammability (solid, gas) Flammability Limit in Air (%): Upper Flammability Limit: Lower Flammability Limit: Explosion limits: Vapor Pressure Vapor Density Specific Gravity / Relative Density Water Solubility Solubility in other solvents Partition Coefficient Decomposition temperature pH: Autoignition Temperature Kinematic Viscosity Explosive Properties VOC Content (%) Density	Values (Method)         No data available.         24-210 °C / 75-410 °F (ASTM D86)         -43 °C / -45 °F         No data available.         Not applicable.         7.6         1.4         No data available.         5.5-15 psi (ASTM D4814)         3-4         0.70-0.76         No data available.         2.13-4.5         No data available.         Not applicable         280 °C / 536 °F         No data available.         No data a
Bulk Density	Not applicable.

## **10. STABILITY AND REACTIVITY**

Reactivity	The product is non-reactive under normal conditions.
Chemical stability	The material is stable at 70°F (21°C ), 760 mmHg pressure.
Possibility of hazardous reactions	None under normal processing.
Hazardous polymerization	Will not occur.
Conditions to avoid	Excessive heat, sources of ignition, open flame.
Incompatible Materials	Strong oxidizing agents.
Hazardous decomposition products	None known under normal conditions of use.

## **11. TOXICOLOGICAL INFORMATION**

#### Potential short-term adverse effects from overexposures

Inhalation	May cause irritation of respiratory tract. May cause drowsiness or dizziness. Breathing high concentrations of this material in a confined space or by intentional abuse can cause irregular heartbeats which can cause death.
Eye contact	Exposure to vapor or contact with liquid may cause mild eye irritation, including tearing, stinging, and redness.
Skin contact	Irritating to skin. Effects may become more serious with repeated or prolonged contact. May be absorbed through the skin in harmful amounts.

#### Ingestion

May be fatal if swallowed or vomited and enters airways. May cause irritation of the mouth, throat and gastrointestinal tract.

#### Acute toxicological data

Name	Oral LD50	Dermal LD50	Inhalation LC50
Gasoline 86290-81-5	14000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 5.2 mg/L (Rat) 4 h
Heptane (mixed isomers) 142-82-5	-	3000 mg/kg (Rabbit)	103 g/m³ (Rat) 4 h
Butane (mixed isomers) 106-97-8	-	-	658 mg/L (Rat) 4 h
Pentane (mixed isomers) 78-78-4	-	-	450 mg/L (Mouse) 2 h
Hexane Isomers (other than n-Hexane) 107-83-5	> 5000 mg/kg (Rat)	-	-
Toluene 108-88-3	> 2000 mg/kg (Rat)	8390 mg/kg (Rabbit)	12.5 mg/L (Rat) 4 h
Xylene (mixed isomers) 1330-20-7	> 2000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 5.04 mg/L (Rat) 4 h
Benzene 71-43-2	> 2000 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	> 20 mg/l (Rat) 4 h
n-Hexane 110-54-3	15000 mg/kg (Rat)	3000 mg/kg (Rabbit)	48000 ppm (Rat) 4 h
Cumene 98-82-8	> 2000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 20 mg/L (Rat) 6 h
1,2,4 Trimethylbenzene 95-63-6	3280 mg/kg (Rat)	> 3160 mg/kg (Rabbit)	18,000 mg/m³ (Rat) 4 h
Ethylbenzene 100-41-4	> 2000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	17.2 mg/L (Rat) 4 h
Cyclohexane 110-82-7	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	13.9 mg/L (Rat) 4 h
Octane 111-65-9	-	-	118 g/m³ (Rat) 4 h
1,2,3-Trimethylbenzene 526-73-8	-	-	-
Naphthalene 91-20-3	490 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 340 mg/m³ (Rat) 1 h

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

NAPHTHAS: In a large epidemiological study on over 15,000 employees at several petroleum refineries and amongst residents located near these refineries, no increased risk of kidney cancer was observed in association with gasoline exposures (a similar material). In a similar study, no increased risk of kidney cancer was observed among petroleum refinery workers, but there was a slight trend in the incidence of kidney cancers among service station employees, especially after a 30-year latency period. Altered mental state, drowsiness, peripheral motor neuropathy, irreversible brain damage (so-called Petrol Sniffer's Encephalopathy), delirium, seizures, and sudden death have been reported from repeated overexposure to some hydrocarbon solvents, naphthas, and gasoline.

ISOPARAFFINS: Studies in laboratory animals have shown that long-term exposure to similar materials (isoparaffins) can cause kidney damage and kidney cancer in male laboratory rats. However, in-depth research indicates that these findings are unique to the male rat, and that these effects are not relevant to humans.

C9 AROMATIC HYDROCARBONS: A developmental inhalation study was conducted in laboratory mice. Increased implantation losses, reduced fetal weights, delayed ossification and an increased incidence of cleft palate were observed at the highest exposure level (1,500 ppm). This exposure level was extremely toxic to pregnant female mice (44% mortality). Reduced fetal body weights were also observed at 500 ppm. A multi-generation reproduction inhalation study was conducted in laboratory rats.

Reductions in pup weights, pup weight gain, litter size, and pup survival were observed at 1,500 ppm, an exposure level at which significant maternal toxicity was observed. Reduced pup weight gain was also observed at 500 ppm.

BUTANES: Studies in laboratory animals indicate exposure to extremely high levels of butanes (1-10 or higher vol.% in air) may cause cardiac arrhythmias (irregular heartbeats) which may be serious or fatal.

PENTANES: Studies of pentane isomers in laboratory animals indicate exposure to extremely high levels (roughly 10 vol.%) may induce cardiac arrhythmias (irregular heartbeats) which may be serious or fatal.

TOLUENE: Case studies of persons abusing toluene suggest isolated incidences of adverse effects on the fetus including birth defects. Abuse of toluene at high concentrations (e.g., glue sniffing and solvent abuse) has been associated with adverse effects on the liver, kidney and nervous system, and can cause CNS depression, cardiac arrhythmias, and death. Studies of workers indicate longterm exposure may be related to impaired color vision and hearing. Some studies of workers suggest longterm exposure may be related to neurobehavioral and cognitive changes. Some of these effects have been observed in laboratory animals following repeated exposure to high levels of toluene. Several studies of workers suggest longterm exposure may be related to small increases in spontaneous abortions and changes in some gonadotropic hormones. However, the weight of evidence does not indicate toluene is a reproductive hazard to humans. Studies in laboratory animals indicate some changes in reproductive organs following high levels of exposure, but no significant effects on mating performance or reproduction were observed. Case studies of persons abusing toluene suggest isolated incidences of adverse effects on the fetus including birth defects. Findings in laboratory animals have been largely negative. Positive findings include small increases in minor skeletal and visceral malformations and developmental delays following very high levels of maternal exposure. Studies of workers indicate long-term exposure may be related to effects on the liver, kidney and blood, but these appear to be limited to changes in serum enzymes and decreased leukocyte counts. Adverse effects on the liver, kidney, thymus and nervous system were observed in animal studies following very high levels of exposure. The relevance of these findings to humans is not clear at this time.

XYLENES, ALL ISOMERS: Overexposure to xylene may cause upper respiratory tract irritation, headache, cyanosis, blood serum changes, nervous system damage and narcosis. Effects may be increased by the use of alcoholic beverages. Evidence of liver and kidney impairment were reported in workers recovering from a gross overexposure. Effects from Prolonged or Repeated Exposure: Impaired neurological function was reported in workers exposed to solvents including xylene. Studies in laboratory animals have shown evidence of impaired hearing following high levels of exposure. Studies in laboratory animals suggest some changes in reproductive organs following high levels of exposure but no significant effects on reproduction were observed. Studies in laboratory animals indicate skeletal and visceral malformations, developmental delays, and increased fetal resorptions following extremely high levels of maternal exposure with evidence of maternal toxicity. The relevance of these observations to humans is not clear at this time. Adverse effects on the liver, kidney, bone marrow (changes in blood cell parameters) were observed in laboratory animals following high levels of exposure. The relevance of these observations to humans is not clear at this time.

BENZENE: Studies of workers exposed to benzene show clear evidence that overexposure can cause cancer and other diseases of the blood forming organs including Acute Myelogenous Leukemia (AML), and Aplastic Anemia (AA), an often fatal disease. Some studies suggest overexposure to benzene may also be associated with Myelodysplastic Syndrome (MDS). Findings from a case control study of workers exposed to benzene was reported during the 2009 Benzene Symposium in Munich included an increase in Acute Myeloid Leukemias and Non-Hodgkins Lymphoid Neoplasms (NHLN) of the subtype follicular lymphoma (FL) in some occupational categories. Some studies of workers exposed to benzene have shown an association with increased rates of chromosome aberrations in circulating lymphocytes. One study of women workers exposed to benzene

suggested a weak association with irregular menstruation. However, other studies of workers exposed to benzene have not demonstrated clear evidence of an effect on fertility or reproductive outcome in humans. Benzene can cross the placenta and affect the developing fetus. Cases of AA have been reported in the offspring of persons severely overexposed to benzene. Studies in laboratory animals indicate that prolonged, repeated exposure to high levels of benzene vapor can cause bone marrow suppression and cancer in multiple organ systems. Studies in laboratory animals show evidence of adverse effects on male reproductive organs following high levels of exposure but no significant effects on reproduction have been observed. Embryotoxicity has been reported in studies of laboratory animals but effects were limited to reduced fetal weight and minor skeletal variations. Benzene has been classified as a proven human carcinogen by OSHA and a Group 1 (Carcinogenic to Humans) material by IARC. The current proposed IARC classification for benzene is summarized as follows: Sufficient evidence for Acute Myeloid Leukemia; limited evidence for Acute Lymphatic Leukemia, Chronic Lymphatic Leukemia, Non-Hodgkin Lymphoma, and Multiple Myeloma.

N-HEXANE: Long-term or repeated exposure to n-hexane can cause peripheral nerve damage. Initial symptoms are numbness of the fingers and toes. Also, motor weakness can occur in the digits, but may also involve muscles of the arms, thighs and forearms. The onset of these symptoms may be delayed for several months to a year after the beginning of exposure. Testicular atrophy and partial to full loss of the germ cell line were observed in sub-chronic high-dose inhalation studies of laboratory rodents. These effects appeared irreversible. Rodent reproduction studies have shown evidence of reduced fetal weight but no frank malformations.

CUMENE: Overexposure to cumene may cause upper respiratory tract irritation and CNS depression. Studies in laboratory animals indicate evidence of respiratory tract hyperplasia, and adverse effects on the liver, kidney and adrenal glands following high level exposure. The relevance of these findings to humans is not clear at this time. Findings from lifetime laboratory rodent inhalation studies were as follows: In F344/N rats: an increased incidence of renal carcinomas and adenomas, respiratory epithelial adenomas, and interstitial cell adenomas of the testes. In B6C3F1 mice: an increased incidence of carcinomas and adenomas of the bronchi and lung, liver neoplasms, hemangiosarcomas of the spleen, and adenomas of the thyroid.

1,2,4-TRIMETHYLBENZENE: The following information pertains to a mixture of C9 aromatic hydrocarbons, over 40% of which was composed of 1,2,4-trimethylbenzene. A developmental inhalation study was conducted in laboratory mice. Increased implantation losses, reduced fetal weights, delayed ossification and an increased incidence of cleft palate were observed at the highest exposure level (1,500 ppm). This exposure level was extremely toxic to pregnant female mice (44% mortality). Reduced fetal body weights were also observed at 500 ppm. A multi-generation reproduction inhalation study was conducted in laboratory rats. Reductions in pup weights, pup weight gain, litter size, and pup survival were observed at 1,500 ppm, an exposure level at which significant maternal toxicity was observed. Reduced pup weight gain was also observed at 500 ppm. Embryotoxicity has been reported in studies of laboratory animals. Adverse effects included increased implantation losses, reduced fetal weights, delayed ossification and an increased incidence of cleft palate.<n><n>

ETHYLBENZENE: Findings from a 2-year inhalation study in rodents conducted by NTP were as follows: Effects were observed only at the highest exposure level (750 ppm). At this level the incidence of renal tumors was elevated in male rats (tubular carcinomas) and female rats (tubular adenomas). The incidence of tumors was also elevated in male mice (alveolar and bronchiolar carcinomas) and female mice (hepatocellular carcinomas). IARC has classified ethyl benzene as "possibly carcinogenic to humans" (Group 2B). Studies in laboratory animals indicate some evidence of post-implantation deaths following high levels of maternal exposure. The relevance of these findings to humans is not clear at this time. Studies in laboratory animals indicate limited evidence of renal malformations, resorptions, and developmental delays following high levels of maternal exposure with evidence of maternal toxicity. The relevance of these findings to humans is not clear at this time. Studies in laboratory animals have demonstrated evidence of ototoxicity (hearing loss)

following exposure levels as low as 300 ppm for 5 days. Studies in laboratory animals indicate some evidence of adverse effects on the liver, kidney, thyroid, and pituitary gland.

NAPHTHALENE: Severe jaundice, neurotoxicity (kernicterus) and fatalities have been reported in young children and infants as a result of hemolytic anemia from overexposure to naphthalene. Persons with glucose 6-phosphate dehydrogenase (G6PD) deficiency are more prone to the hemolytic effects of naphthalene. Adverse effects on the kidney have been reported in persons overexposed to naphthalene but these effects are believed to be a consequence of hemolytic anemia, and not a direct effect. Hemolytic anemia has been observed in laboratory animals exposed to naphthalene. Laboratory rodents exposed to naphthalene vapor for 2 years (lifetime studies) developed non-neoplastic and neoplastic tumors and inflammatory lesions of the nasal and respiratory tract. Cataracts and other adverse effects on the eye have been observed in laboratory animals exposed to high levels of naphthalene. Findings from a large number of bacterial and mammalian cell mutation assays have been negative. A few studies have shown chromosomal effects (elevated levels of Sister Chromatid Exchange or chromosomal aberrations) in vitro. Naphthalene has been classified as Possibly Carcinogenic to Humans (2B) by IARC, based on findings from studies in laboratory animals.

CARBON MONOXIDE: is a chemical asphyxiant with no warning properties (such as odor). At 400-500 ppm for 1 hour headache and dyspnea may occur. If activity is increased, symptoms of overexposure may include nausea, irritability, increased respiration, tinnitus, sweating, chest pain, confusion, impaired judgement, dizziness, weakness, drowsiness, ataxia, irregular heart beat, cyanosis and pallor. Levels in excess of 1000 ppm can result in collapse, loss of conciousness, respiratory failure and death. Extremely high concentrations (12,800 ppm) can cause immediate unconsciousness and death in 1-3 minutes. Repeated anoxia can lead to central nervous system damage and peripheral neuropathy, with loss of sensation in the fingers, amnesia, and mental deterioration and possible congestive heart failure. Damage may also occur to the fetus, lung, liver, kidney, spleen, cardiovascular system and other organs.

WHOLLY-VAPORIZED UNLEADED GASOLINE: Lifetime exposure to wholly vaporized unleaded gasoline produced an increased incidence of liver tumors in female mice exposed to the highest exposure concentration (2056 ppm) and  $\alpha$ -2 urinary globulin-mediated kidney tumors in male rats. No exposure-related tumors were observed in male mice or female rats. The male-specific rat kidney tumors are not considered relevant to human health. Mice receiving lifetime repeated skin application of various petroleum naphthas exhibited an irritation-dependent increased incidence of skin tumors. Additional studies suggest that these tumors occur through a mechanism that may not be relevant to human health. Epidemiological data from over 18,000 petroleum marketing and distribution workers showed no increased risk of leukemia, multiple myeloma, or kidney cancer resulting from gasoline exposure. Unleaded gasoline has been identified as possibly carcinogenic to humans (2B) by the International Agency for Research on Cancer (IARC).

COMBUSTION ENGINE EXHAUST: Chronic inhalation studies of gasoline engine exhaust in mice, rats and hamsters did not produce any carcinogenic effects. Condensates/extracts of gasoline engine exhaust produced an increase in tumors compared to controls when testing by skin painting, subcutaneous injection, intratracheal instillation or implantation into the lungs. Gasoline exhaust has been classified as possibly carcinogenic to humans (2B) by the International Agency for Research on Cancer (IARC).

Adverse effects related to the physical, chemical and toxicological characteristics

Signs and Symptoms Irritating to the skin and mucous membranes. Symptoms may include redness, itching, and inflammation. May cause nausea, vomiting, diarrhea, and signs of nervous system depression: headache, drowsiness, dizziness, loss of coordination, disorientation and fatigue. Aspiration hazard. May cause coughing, chest pains, shortness of breath, pulmonary edema and/or chemical pneumonitis. Prolonged or repeated exposure may cause damage to organs. Repeated or prolonged skin contact may cause drying, reddening, itching and cracking.

#### Sensitization

Not expected to be a skin or respiratory sensitizer.

Mutagenic effects

May cause genetic defects.

May cause cancer.

Carcinogenicity

Cancer designations are listed in the table below

Name	ACGIH (Class)	IARC (Class)	NTP	OSHA
Gasoline 86290-81-5	Confirmed animal carcinogen (A3)	Possible human carcinogen (2B)	Not Listed	Not Listed
Heptane (mixed isomers) 142-82-5	Not Listed	Not Listed	Not Listed	Not Listed
Butane (mixed isomers) 106-97-8	Not Listed	Not Listed	Not Listed	Not Listed
Pentane (mixed isomers) 78-78-4	Not Listed	Not Listed	Not Listed	Not Listed
Hexane Isomers (other than n-Hexane) 107-83-5	Not Listed	Not Listed	Not Listed	Not Listed
Toluene 108-88-3	Not Classifiable (A4)	Not Classifiable (3)	Not Listed	Not Listed
Xylene (mixed isomers) 1330-20-7	Not classifiable (A4)	Not classifiable (3)	Not Listed	Not Listed
Benzene 71-43-2	Confirmed human carcinogen (A1)	Carcinogenic to humans (1)	Known to be human carcinogen	Known carcinogen
n-Hexane 110-54-3	Not Listed	Not Listed	Not Listed	Not Listed
Cumene 98-82-8	Not listed	Possible human carcinogen (2B)	Reasonably anticipated to be a human carcinogen	Not listed
1,2,4 Trimethylbenzene 95-63-6	Not Listed	Not Listed	Not Listed	Not Listed
Ethylbenzene 100-41-4	Confirmed animal carcinogen (A3)	Possible human carcinogen (2B)	Not Listed	Not Listed
Cyclohexane 110-82-7	Not Listed	Not Listed	Not Listed	Not Listed
Octane 111-65-9	Not Listed	Not Listed	Not Listed	Not Listed
1,2,3-Trimethylbenzene 526-73-8	Not Listed	Not Listed	Not Listed	Not Listed
Naphthalene 91-20-3	Confirmed animal carcinogen (A3)	Possible human carcinogen (2B)	Reasonably anticipated to be a human carcinogen	Not Listed

**Reproductive toxicity** 

Suspected of damaging fertility or the unborn child.

Respiratory system. Central nervous system.

Specific Target Organ Toxicity (STOT) - single exposure

Specific Target Organ Toxicity (STOT) - repeated exposure

Aspiration hazard

Blood. Blood-forming organs. Immune system.

May be fatal if swallowed or vomited and enters airways.

## **12. ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

This product should be considered toxic to aquatic organisms, with the potential to cause long lasting adverse effects in the aquatic environment.

Name	Algae/aquatic plants	Fish	Toxicity to Microorganisms	Crustacea
Gasoline	72-hr EC50 = 56 mg/l	96-hr LC50 = 11 mg/l	-	48-hr LC50 = 7.6 mg/l
86290-81-5	Algae	Rainbow trout (static)		Daphnia magna
Heptane (mixed isomers)	-	96-hr LC50 = 375 mg/L	-	-

# 0127MAR019 Marathon Petroleum Gasoline - All Grades

142-82-5		Tilapia		
Butane (mixed isomers) 106-97-8	-	-		-
Pentane (mixed isomers) 78-78-4	-	96-hr LC50 = 3.1 mg/L Rainbow trout	-	48-hr EC50 = >1 - <10 mg/ Daphnia magna
Hexane Isomers (other than n-Hexane) 107-83-5	-	-	-	-
Toluene 108-88-3	72-hr EC50 = 12.5 mg/l Algae	96-hr LC50 <= 10 mg/l Rainbow trout	-	48-hr EC50 = 5.46-9.83 mg Daphnia magna 48-hr EC50 = 11.5 mg/l Daphnia magna (Static)
Xylene (mixed isomers) 1330-20-7	72-hr EC50 = 11 mg/l Algae	96-hr LC50 = 8 mg/l Rainbow trout	-	48-hr LC50 = 3.82 mg/l Daphnia magna
Benzene 71-43-2	72-hr EC50 = 29 mg/l Algae	96-hr LC50 = 5.3 mg/l Rainbow trout (flow-through)	-	48-hr EC50 = 8.76-15.6 mg Daphnia magna (Static)
n-Hexane 110-54-3	-	96-hr LC50 = 2.5 mg/l Fathead minnow	-	-
Cumene 98-82-8	72-hr EC50 = 2.6 mg/l Algae	96-hr LC50 = 6.04-6.61 mg/l Fathead minnow (Flow-through) 96-hr LC50 = 2.7 mg/l Rainbow trout (semi-static)	-	48-hr EC50 = 7.9-14.1 mg Daphnia magna (static)
1,2,4 Trimethylbenzene 95-63-6	-	96-hr LC50 = 7.19-8.28 mg/l Fathead minnow (flow-through)	-	48-hr EC50 = 6.14 mg/L Daphnia magna
Ethylbenzene 100-41-4	72-hr EC50 = 1.7-7.6 mg/l Algae	96-hr LC50 = 4 mg/L Rainbow trout	-	48-hr EC50 = 1-4 mg/L Daphnia magna
Cyclohexane 110-82-7	72-hr EC50 = 500 mg/l Algae	96-hr LC50 = 3.96-5.18 mg/l Fathead minnow	-	48-hr EC50 = 1.7-3.5 mg/l Bay shrimp
Octane 111-65-9	_	-	-	48-hr LC50 = 0.38 mg/l Daphnia magna
1,2,3-Trimethylbenzene 526-73-8	-	96-hr LC50 = 7.72 mg/l Fathead Minnow (flow-through)	-	-
Naphthalene 91-20-3	-	96-hr LC50 = 0.91-2.82 mg/l Rainbow trout (static) 96-hr LC50 = 1.99 mg/l Fathead minnow (static)	-	48-hr LC50 = 1.6 mg/l Daphnia magna

impede the biodegradation of benzene, toluene, ethylbenzene and xylene in groundwater, resulting in elongated plumes of these constituents.

<b>Bioaccumulation</b>	Has the potential to bioaccumulate.

#### Mobility in soil May partition into air, soil and water.

Other adverse effects No information available.

## **13. DISPOSAL CONSIDERATIONS**

#### **Description of Waste Residues**

This material may be a flammable liquid waste.

#### Safe Handling of Wastes

Handle in accordance with applicable local, state, and federal regulations. Use personal protection measures as required. Use appropriate grounding and bonding practices. Use only non-sparking tools. Do not expose to heat, open flames, strong oxidizers or other sources of ignition. No smoking.

#### **Disposal of Wastes / Methods of Disposal**

The user is responsible for determining if any discarded material is a hazardous waste (40 CFR 262.11). Dispose of in accordance with federal, state and local regulations.

#### Methods of Contaminated Packaging Disposal

Empty containers should be completely drained and then discarded or recycled, if possible. Do not cut, drill, grind or weld on empty containers since explosive residues may be present. Dispose of in accordance with federal, state and local regulations.

	14. TRANSPORT INFORMATION
DOT (49 CFR 172.101):	
UN Proper Shipping Name:	Gasoline
UN/Identification No:	UN 1203
Class:	3
Packing Group:	II
TDG (Canada):	
UN Proper Shipping Name:	Gasoline
UN/Identification No:	UN 1203
Transport Hazard Class(es):	3
Packing Group:	II

## **15. REGULATORY INFORMATION**

#### **US Federal Regulatory Information:**

US TSCA Chemical Inventory Section 8(b):

This product and/or its components are listed on the TSCA Chemical Inventory.

#### EPA Superfund Amendment & Reauthorization Act (SARA):

SARA Section 302:

This product does not contain any component(s) included on EPA's Extremely Hazardous Substance (EHS) List.

Name	CERCLA/SARA - Section 302 Extremely Hazardous Substances and TPQs
Gasoline	NA
Heptane (mixed isomers)	NA
Butane (mixed isomers)	NA
Pentane (mixed isomers)	NA
Hexane Isomers (other than n-Hexane)	NA
Toluene	NA
Xylene (mixed isomers)	NA
Benzene	NA
n-Hexane	NA
Cumene	NA
1,2,4 Trimethylbenzene	NA
Ethylbenzene	NA
Cyclohexane	NA
Octane	NA
1,2,3-Trimethylbenzene	NA
Naphthalene	NA

SARA Section 304:

This product may contain component(s) identified either as an EHS or a CERCLA Hazardous substance which in case of a spill or release may be subject to SARA reporting requirements:

Name	Hazardous Substances RQs
Gasoline	NA
Heptane (mixed isomers)	NA
Butane (mixed isomers)	NA
Pentane (mixed isomers)	NA
Hexane Isomers (other than n-Hexane)	NA

Toluene	1000 lb final RQ 454 kg final RQ
Xylene (mixed isomers)	100
Benzene	10
n-Hexane	5000
Cumene	5000
1,2,4 Trimethylbenzene	NA
Ethylbenzene	1000
Cyclohexane	1000
Octane	NA
1,2,3-Trimethylbenzene	NA
Naphthalene	100 lb final RQ
	45.4 kg final RQ

SARA Section 311/312:

The following EPA hazard categories apply to this product:

Acute Health Hazard Chronic Health Hazard Fire Hazard

SARA Section 313:

This product may contain component(s), which if in exceedance of the de minimus threshold, may be subject to the reporting requirements of SARA Title III Section 313 Toxic Release Reporting (Form R).

Name	CERCLA/SARA 313 Emission reporting:
Gasoline	None
Heptane (mixed isomers)	None
Butane (mixed isomers)	None
Pentane (mixed isomers)	None
Hexane Isomers (other than n-Hexane)	None
Toluene	1.0 % de minimis concentration
Xylene (mixed isomers)	1.0 % de minimis concentration
Benzene	0.1 % de minimis concentration
n-Hexane	1.0 % de minimis concentration
Cumene	1.0 % de minimis concentration
1,2,4 Trimethylbenzene	1.0 % de minimis concentration
Ethylbenzene	0.1 % de minimis concentration
Cyclohexane	1.0 % de minimis concentration
Octane	None
1,2,3-Trimethylbenzene	None
Naphthalene	0.1 % de minimis concentration

#### State and Community Right-To-Know Regulations:

The following component(s) of this material are identified on the regulatory lists below:

Gasoline	
Louisiana Right-To-Know:	Not Listed
California Proposition 65:	Not Listed
New Jersey Right-To-Know:	SN 0957
Pennsylvania Right-To-Know:	Present
Massachusetts Right-To Know:	Present
Florida Substance List:	Not Listed
Rhode Island Right-To-Know:	Not Listed
Michigan Critical Materials Register List:	Not Listed
Massachusetts Extraordinarily Hazardous Substances:	Not Listed
California - Regulated Carcinogens:	Not Listed
Pennsylvania RTK - Special Hazardous	Not Listed
Substances:	
New Jersey - Special Hazardous Substances:	Carcinogen; Flammable - third degree
New Jersey - Environmental Hazardous	SN 0957 TPQ: 10000 lb (Under N.J.A.C. 7:1G, environmental

Substances List:

Illinois - Toxic Air Contaminants: New York - Reporting of Releases Part 597 -List of Hazardous Substances: Heptane (mixed isomers) Louisiana Right-To-Know: California Proposition 65: New Jersey Right-To-Know: Pennsylvania Right-To-Know: Massachusetts Right-To Know: Florida Substance List: Rhode Island Right-To-Know: Michigan Critical Materials Register List: Massachusetts Extraordinarily Hazardous Substances: California - Regulated Carcinogens: Pennsylvania RTK - Special Hazardous Substances: New Jersey - Special Hazardous Substances: New Jersey - Environmental Hazardous Substances List: Illinois - Toxic Air Contaminants: New York - Reporting of Releases Part 597 -List of Hazardous Substances: Butane (mixed isomers) Louisiana Right-To-Know: California Proposition 65: New Jersey Right-To-Know: Pennsylvania Right-To-Know: Massachusetts Right-To Know: Florida Substance List: Rhode Island Right-To-Know: Michigan Critical Materials Register List: Massachusetts Extraordinarily Hazardous Substances: California - Regulated Carcinogens: Pennsylvania RTK - Special Hazardous Substances: New Jersey - Special Hazardous Substances: New Jersey - Environmental Hazardous Substances List: Illinois - Toxic Air Contaminants: New York - Reporting of Releases Part 597 -List of Hazardous Substances: Pentane (mixed isomers) Louisiana Right-To-Know: California Proposition 65: New Jersey Right-To-Know: Pennsylvania Right-To-Know: Massachusetts Right-To Know: Florida Substance List: Rhode Island Right-To-Know: Michigan Critical Materials Register List: Massachusetts Extraordinarily Hazardous Substances: California - Regulated Carcinogens: Pennsylvania RTK - Special Hazardous Substances: New Jersey - Special Hazardous Substances: New Jersey - Environmental Hazardous Substances List: Illinois - Toxic Air Contaminants: New York - Reporting of Releases Part 597 -

hazardous substances in mixtures such as gasoline or new and used petroleum oil may be reported under these categories) Present Not Listed

Not Listed Not Listed SN 1339 Present Present Not Listed Toxic; Flammable Not Listed Not Listed Not Listed Not Listed Flammable - third degree Not Listed Not Listed Not Listed Not Listed Not Listed SN 0273 Present Present Not Listed Toxic: Flammable Not Listed Not Listed Not Listed Not Listed Flammable - fourth degree SN 0273 TPQ: 500 lb Not Listed Not Listed Not Listed Not Listed SN 1064 Present Present Not Listed Not Listed Not Listed Not Listed Not Listed Not Listed Flammable - fourth degree SN 1064 TPQ: 500 lb

Not Listed Not Listed

List of Hazardous Substances: Hexane Isomers (other than n-Hexane) Louisiana Right-To-Know: California Proposition 65: New Jersey Right-To-Know: Pennsylvania Right-To-Know: Massachusetts Right-To Know: Florida Substance List: Rhode Island Right-To-Know: Michigan Critical Materials Register List: Massachusetts Extraordinarily Hazardous Substances: California - Regulated Carcinogens: Pennsylvania RTK - Special Hazardous Substances: New Jersey - Special Hazardous Substances: New Jersey - Environmental Hazardous Substances List: Illinois - Toxic Air Contaminants: New York - Reporting of Releases Part 597 -List of Hazardous Substances: Toluene Louisiana Right-To-Know: California Proposition 65: New Jersey Right-To-Know: Pennsylvania Right-To-Know: Massachusetts Right-To Know: Florida Substance List: Rhode Island Right-To-Know: Michigan Critical Materials Register List: Massachusetts Extraordinarily Hazardous Substances: California - Regulated Carcinogens: Pennsylvania RTK - Special Hazardous Substances: New Jersey - Special Hazardous Substances: New Jersey - Environmental Hazardous Substances List: Illinois - Toxic Air Contaminants: New York - Reporting of Releases Part 597 -List of Hazardous Substances: Xylene (mixed isomers) Louisiana Right-To-Know: California Proposition 65: New Jersev Right-To-Know: Pennsylvania Right-To-Know: Massachusetts Right-To Know: Florida Substance List: Rhode Island Right-To-Know: Michigan Critical Materials Register List: Massachusetts Extraordinarily Hazardous Substances: California - Regulated Carcinogens: Pennsylvania RTK - Special Hazardous Substances: New Jersey - Special Hazardous Substances: New Jersey - Environmental Hazardous Substances List: Illinois - Toxic Air Contaminants: New York - Reporting of Releases Part 597 -List of Hazardous Substances: Benzene Louisiana Right-To-Know:

Not Listed Not Listed SN 1285 Present Present Not Listed Not Listed Not Listed Not Listed Not Listed Not Listed Flammable - third degree Not Listed Not Listed Not Listed Not Listed Developmental toxicity, initial date 1/1/91 Female reproductive toxicity, initial date 8/7/09 SN 1866 Environmental hazard Present Not Listed Toxic (skin); Flammable (skin) 100 lb Annual usage threshold Not Listed Not Listed Not Listed Flammable - third degree; Teratogen SN 1866 TPQ: 500 lb Present 1000 lb RQ (air); 1 lb RQ (land/water) Not Listed Not Listed SN 2014 Environmental hazard Present Not Listed Toxic (skin); Flammable (skin) 100 lb Annual usage threshold all isomers Not Listed Not Listed Not Listed Flammable - third degree SN 2014 TPQ: 500 lb Present 1000 lb RQ (air); 1 lb RQ (land/water)

Not Listed

California Proposition 65:

New Jersey Right-To-Know: Pennsylvania Right-To-Know: Massachusetts Right-To Know: Florida Substance List: Rhode Island Right-To-Know: Michigan Critical Materials Register List: Massachusetts Extraordinarily Hazardous Substances: California - Regulated Carcinogens: Pennsylvania RTK - Special Hazardous Substances: New Jersey - Special Hazardous Substances: New Jersey - Environmental Hazardous Substances List: Illinois - Toxic Air Contaminants: New York - Reporting of Releases Part 597 -List of Hazardous Substances: n-Hexane Louisiana Right-To-Know: California Proposition 65: New Jersey Right-To-Know: Pennsylvania Right-To-Know: Massachusetts Right-To Know: Florida Substance List: Rhode Island Right-To-Know: Michigan Critical Materials Register List: Massachusetts Extraordinarily Hazardous Substances: California - Regulated Carcinogens: Pennsylvania RTK - Special Hazardous Substances: New Jersey - Special Hazardous Substances: New Jersey - Environmental Hazardous Substances List: Illinois - Toxic Air Contaminants: New York - Reporting of Releases Part 597 -List of Hazardous Substances: Cumene Louisiana Right-To-Know: California Proposition 65: New Jersey Right-To-Know: Pennsylvania Right-To-Know: Massachusetts Right-To Know: Florida Substance List: Rhode Island Right-To-Know: Michigan Critical Materials Register List: Massachusetts Extraordinarily Hazardous Substances: California - Regulated Carcinogens: Pennsylvania RTK - Special Hazardous Substances: New Jersey - Special Hazardous Substances: New Jersey - Environmental Hazardous Substances List: Illinois - Toxic Air Contaminants: New York - Reporting of Releases Part 597 -List of Hazardous Substances: 1,2,4 Trimethylbenzene Louisiana Right-To-Know: California Proposition 65:

California Proposition 65: New Jersey Right-To-Know: Carcinogen, initial date 2/27/87 Developmental toxicity, initial date 12/26/97 Male reproductive toxicity, initial date 12/26/97 SN 0197 Environmental hazard; Special hazardous substance Carcinogen; Extraordinarily hazardous Not Listed Toxic (skin); Flammable (skin); Carcinogen (skin) 100 lb Annual usage threshold Carcinogen; Extraordinarily hazardous Not Listed Present

Carcinogen; Flammable - third degree; Mutagen SN 0197 TPQ: 500 lb

Present 10 lb RQ (air); 1 lb RQ (land/water)

Not Listed Not Listed SN 1340 Present Present Not Listed Toxic; Flammable Not Listed Not Listed Not Listed Not Listed Not Listed Not Listed

Flammable - third degree SN 1340 TPQ: 500 lb

Present 1 lb RQ (air); 1 lb RQ (land/water)

Not Listed Carcinogen, initial date 4/6/10 SN 0542 Environmental hazard Present Not Listed Toxic (skin); Flammable (skin) Not Listed Not Listed Not Listed Not Listed Not Listed

Flammable - third degree SN 0542 TPQ: 500 lb

Present 5000 lb RQ (air); 1 lb RQ (land/water)

Not Listed Not Listed SN 1929

Pennsylvania Right-To-Know: Massachusetts Right-To Know: Florida Substance List: Rhode Island Right-To-Know: Michigan Critical Materials Register List: Massachusetts Extraordinarily Hazardous Substances: California - Regulated Carcinogens: Pennsylvania RTK - Special Hazardous Substances: New Jersey - Special Hazardous Substances: New Jersey - Environmental Hazardous Substances List: Illinois - Toxic Air Contaminants: New York - Reporting of Releases Part 597 -List of Hazardous Substances: Ethylbenzene Louisiana Right-To-Know: California Proposition 65: New Jersev Right-To-Know: Pennsylvania Right-To-Know: Massachusetts Right-To Know: Florida Substance List: Rhode Island Right-To-Know: Michigan Critical Materials Register List: Massachusetts Extraordinarily Hazardous Substances: California - Regulated Carcinogens: Pennsylvania RTK - Special Hazardous Substances: New Jersey - Special Hazardous Substances: New Jersey - Environmental Hazardous Substances List: Illinois - Toxic Air Contaminants: New York - Reporting of Releases Part 597 -List of Hazardous Substances: Cvclohexane Louisiana Right-To-Know: California Proposition 65: New Jersey Right-To-Know: Pennsylvania Right-To-Know: Massachusetts Right-To Know: Florida Substance List: Rhode Island Right-To-Know: Michigan Critical Materials Register List: Massachusetts Extraordinarily Hazardous Substances: California - Regulated Carcinogens: Pennsylvania RTK - Special Hazardous Substances: New Jersey - Special Hazardous Substances: New Jersey - Environmental Hazardous Substances List: Illinois - Toxic Air Contaminants: New York - Reporting of Releases Part 597 -List of Hazardous Substances: Octane Louisiana Right-To-Know: California Proposition 65: New Jersey Right-To-Know: Pennsylvania Right-To-Know: Massachusetts Right-To Know: Florida Substance List: Rhode Island Right-To-Know:

Carcinogen, initial date 6/11/04 Environmental hazard Toxic; Flammable Carcinogen; flammable - Third degree SN 0851 TPQ: 500 lb 1000 lb RQ (air); 1 lb RQ (land/water) Environmental hazard Toxic: Flammable

Flammable - third degree SN 0565 TPQ: 500 lb

Present

Present

Toxic

Not Listed

SN 0851

Present

Not Listed

Not Listed

Not Listed

Not Listed

Not Listed

Present

Not Listed

Not Listed

SN 0565

Present

Not Listed

Not Listed

Not Listed

Not Listed

Not Listed

Present

Not Listed 1000 lb RQ (air); 1 lb RQ (land/water)

Not Listed Not Listed SN 1434 Present Present Not Listed Toxic: Flammable

#### 0127MAR019 Marathon Petroleum Gasoline - All Grades

Michigan Critical Materials Regist		Not Listed
Massachusetts Extraordinarily Ha		Not Listed
California - Regulated Carcinoger		Not Listed
Pennsylvania RTK - Special Haza	irdous	Not Listed
Substances:		
New Jersey - Special Hazardous	Substances:	Flammable - third degree
New Jersey - Environmental Haza		Not Listed
Substances List:		
Illinois - Toxic Air Contaminants:		Not Listed
New York - Reporting of Releases	s Part 597 -	Not Listed
List of Hazardous Substances:		
1,2,3-Trimethylbenzene		
Louisiana Right-To-Know:		Not Listed
California Proposition 65:		Not Listed
New Jersey Right-To-Know:		SN 1929
Pennsylvania Right-To-Know:		Present
Massachusetts Right-To Know:		Present
Florida Substance List:		Not Listed
Rhode Island Right-To-Know:		Toxic
Michigan Critical Materials Regist	er List:	Not Listed
Massachusetts Extraordinarily Ha		Not Listed
California - Regulated Carcinoger		Not Listed
Pennsylvania RTK - Special Haza		Not Listed
Substances:		
New Jersey - Special Hazardous	Substances:	Not Listed
New Jersey - Environmental Haza		Not Listed
Substances List:		
Illinois - Toxic Air Contaminants:		Present
New York - Reporting of Releases	s Part 597 -	Not Listed
List of Hazardous Substances:		
Naphthalene		
Louisiana Right-To-Know:		Not Listed
California Proposition 65:		Carcinogen, initial date 4/19/02
New Jersey Right-To-Know:		SN 1322 SN 3758
Pennsylvania Right-To-Know:		Environmental hazard Present (particulate)
Massachusetts Right-To Know:		Present
Florida Substance List:		Not Listed
Rhode Island Right-To-Know:		Toxic; Flammable
Michigan Critical Materials Regist	er List:	Not Listed
Massachusetts Extraordinarily Ha	zardous Substances:	Not Listed
California - Regulated Carcinoger	IS:	Not Listed
Pennsylvania RTK - Special Haza		Not Listed
Substances:		
New Jersey - Special Hazardous	Substances:	Carcinogen
New Jersey - Environmental Haza		SN 1322 TPQ: 500 lb (Reportable at the de minimis quantity of
Substances List:		>0.1%)
Illinois - Toxic Air Contaminants:		Present
New York - Reporting of Releases	s Part 597 -	100 lb RQ (air); 1 lb RQ (land/water)
List of Hazardous Substances:		
Canada DSL/NDSL Inventory:	•	components are listed either on the Domestic Substances List (DSL
	or are exempt.	

**Canadian Regulatory Information:** 

DSL) or are exempt.

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

Name	Canada - WHMIS: Classifications of Substances:	Canada - WHMIS: Ingredient Disclosure:
Gasoline	B2,D2A,D2B	0.1%
Heptane (mixed isomers)	B2,D2B	1%

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Butane (mixed isomers)	A,B1	1%
Pentane (mixed isomers)	B2	1%
Hexane Isomers (other than n-Hexane)	B2	1%
Toluene	B2,D2A,D2B	0.1%
Xylene (mixed isomers)	B2,D2A,D2B	m-, o-isomers 1.0%; p-isomer 0.1%
Benzene	B2,D2A,D2B	0.1%
n-Hexane	B2,D2A,D2B	1%
Cumene	B2,D2A	0.1%
1,2,4 Trimethylbenzene	B3,D2B	1%
Ethylbenzene	B2,D2A,D2B	0.1%
Cyclohexane	B2,D2B	1%
Octane	B2,D2B	1%
1,2,3-Trimethylbenzene	B3	1%
Naphthalene	B4,D2A	0.1%



Note:

Not applicable.

## **16. OTHER INFORMATION**

**Prepared By** 

Toxicology and Product Safety

**Revision Notes** 

Revision Date Previous Publish Date Revised Sections 03/19/2018 11/06/2017 The following sections (§) have been updated: 2. HAZARD IDENTIFICATION 3. COMPOSITION/INFORMATION ON INGREDIENTS 4. FIRST AID MEASURES 11. TOXICOLOGICAL INFORMATION

#### **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 is intended as guidance for safe handling, use, processing, storage, transportation, accidental release, clean-up and disposal and is not considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.



## **Material Safety Data Sheet**

MSDS ID NO.:	0118SPE012
Revision date:	06/02/2006
1. CHEMIC	AL PRODUCT AND COMPANY INFORMATION
Product code:	SW02
Product name:	SSA Speedway 10W-40 Motor Oil
Synonym:	Speedway 10W-40 Motor Oil; 10W-40 Speedway Motor Oil
Chemical Family:	Motor/Lube Oil
Formula:	Mixture
Manufacturer: Speedway/Superamerica LLC P O BOX 1500 ENON OH 45501	
Other information:	419-421-3070
Emergency telephone number:	877-627-5463

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Motor oil is a complex mixture of highly refined lubricating oil base stocks and additives.

#### Product information:

Name	CAS Number	Weight %	ACGIH Exposure Limits:	OSHA - Vacated PELs - Time Weighted Ave	Other:
SSA Speedway 10W-40 Motor Oil	Mixture	100			

#### Component Information:

Name	CAS Number	Weight %	ACGIH Exposure Limits:	OSHA - Vacated PELs - Time Weighted Ave	Other:
Distillates, Hydrotreated Heavy	64742-54-7	92-95			
Paraffinic					
Additives	Not specified	5-8			
Zinc Alkyl Dithiophosphate	68649-42-3	0.7-1.0			

Notes:

The manufacturer has voluntarily elected to reflect exposure limits contained in OSHA's 1989 air contaminants standard in its MSDS's, even though certain of those exposure limits were vacated in 1992.

3. HAZARDS IDENTIFICATION

## **EMERGENCY OVERVIEW**

MOTOR OIL IS A NON-VOLATILE AND NON-COMBUSTIBLE, AMBER COLORED LIQUID, BUT WILL IGNITE AND BURN AT ELEVATED TEMPERATURES.

#### OSHA WARNING LABEL:

THIS PRODUCT HAS BEEN EVALUATED AND DOES NOT REQUIRE ANY HAZARD WARNING LABEL UNDER THE OSHA HAZARD COMMUNICATION STANDARD.

#### A CONSUMER WARNING LABEL IS NOT APPLICABLE FOR THIS PRODUCT.

Inhalation:	No acute effects expected from routine operations. Overheating of product may produce vapors which can cause respiratory irritation, dizziness and nausea.
Ingestion:	Product has a low order of acute toxicity. This is based on data from components or similar products.
Skin contact:	Prolonged or repeated liquid contact can cause dermatitis, folliculitis or oil acne.
Eye contact:	Liquid or vapor contact may result in slight eye irritation.

#### Carcinogenic Evaluation:

#### Product information:

Name	IARC	NTP	ACGIH -	OSHA - Select
	Carcinogens:	Carcinogens:	Carcinogens:	Carcinogens:
SSA Speedway 10W-40 Motor Oil Mixture	NE			

#### Notes:

The International Agency for Research on Cancer (IARC) has determined that there is no evidence that severely solvent-refined oils are carcinogenic to experimental animals.

#### **Component Information:**

## **4. FIRST AID MEASURES**

Inhalation:	If affected, move person to fresh air. If breathing is difficult, administer oxygen. If not breathing or if no heartbeat, give artificial respiration or cardiopulmonary resuscitation (CPR). Immediately call a physician. If symptoms or irritation occur with any exposure, call a physician.
Skin contact:	Wash with soap and large amounts of water. Remove contaminated clothing. If symptoms or irritation occur, call a physician.
	If product is accidentally injected into or under the skin, regardless of wound size or initial absence of symptoms, the individual should be evaluated immediately by a physician as a surgical emergency.
Ingestion:	Not expected to be acutely toxic. If large amounts are swallowed, immediately call a physician.
Eye contact:	Flush eyes with large amounts of tepid water for at least 15 minutes. If symptoms or irritation occur, call a physician.
Notes to physician:	High velocity injection under the skin may result in serious injury. If left untreated the affected area is subject to infection, disfigurement, lack of blood circulation and may require amputation. When dispensed by high pressure equipment this material can easily penetrate the skin and leave a bloodless puncture wound. Material injected into a finger can be deposited into the palm of the hand. Within 24-48 hours the patient may experience swelling, discoloration, and throbbing pain in the affected area. Immediate treatment by a surgical specialist is recommended.
Medical conditions aggravated by exposure:	Skin contact could aggravate an existing skin disorder or dermatitis condition.

## **5. FIRE FIGHTING MEASURES**

Suitable extinguishing media: Specific hazards: Special protective equipment for firefighters:	For small fires, Class B fire extinguishing media such as CO2, dry chemical, foam (AFFF/ATC) or water spray can be used. For large fires, water spray, fog or foam (AFFT/ATC) can be used. Fire fighting should be attempted only by those who are adequately trained and equipped with proper protective equipment. This material is not combustible per the OSHA Hazard Communication Standard, but will ignite and burn at elevated temperatures. Avoid using straight water streams. Water spray and foam (AFFF/ATC) must be applied carefully to avoid frothing and from as far a distance as possible. Avoid excessive water spray application. Use water spray to cool exposed surfaces from as far a distance as possible. Keep run-off water out of sewers and water sources.
Flash point: Autoignition temperature: Flammable limits in air - lower (%): Flammable limits in air - upper (%):	>435 F, >223.8 C (COC) No data available. No data available. No data available.
NFPA rating: Health: 1 Flammability: 1 Reactivity: 0 Other: -	HMIS classification: Health: 1 Flammability: 1 Reactivity: 0 Special: *See Section 8 for guidance in selection of personal protective equipment.

## **6. ACCIDENTAL RELEASE MEASURES**

#### **Personal precautions:**

Keep public away. Isolate and evacuate area. Shut off source if safe to do so. Advise authorities and National Response Center (800-424-8802) if substance has entered a watercourse or sewer. Advise local and state emergency services agencies, if appropriate. Contain liquid with sand or soil. Recover and return free product to proper containers. Use suitable absorbent materials such as vermiculite, sand, or clay to clean up residual liquids.

## 7. HANDLING AND STORAGE

#### Handling:

Comply with all applicable EPA, OSHA, NFPA and consistent state and local requirements. Use appropriate grounding and bonding practices. Store in properly closed containers that are appropriately labeled and in a cool well-ventilated area. Do not cut, drill, grind or weld on empty containers since they may contain explosive residues. Do not pressurize or expose to heat, open flames, strong oxidizers or other sources of ignition.

Avoid repeated and prolonged skin contact. Exercise good personal hygiene including removal of soiled clothing and prompt washing with soap and water.

## **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

#### PERSONAL PROTECTIVE EQUIPMENT

Engineering measures:

Local or general exhaust required when using at elevated temperatures that generate vapors or mists.

Respiratory protection:	Not required under normal conditions and adequate ventilation. Approved organic vapor chemical cartridge or supplied air respirators should be worn for exposures to any components exceeding the TLV or STEL. Observe respirator protection factor criteria cited in ANSI Z88.2. Self-contained breathing apparatus should be used for fire fighting.
Skin and body protection:	Use chemical resistant gloves such as neoprene, nitrile, or PVA to prevent prolonged or repeated skin contact.
Eye protection:	No special eye protection is normally required.

## 9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance: Physical state (Solid/Liquid/Gas): Substance type (Pure/Mixture): Color: Odor: Molecular weight: pH: Boiling point/range (5-95%): Melting point/range: **Decomposition temperature:** Specific gravity: **Density: Bulk density:** Vapor density: Vapor pressure: **Evaporation rate:** Solubility: Solubility in other solvents: Partition coefficient (n-octanol/water): VOC content(%): Viscosity:

Amber Liquid Liquid Mixture Amber Hydrocarbon Not determined. Neutral >425 F, > 218.3 C Not determined. Not applicable. Not determined 7.34 lbs/gal @ 60 F No data available. No data available. Not determined. No data available. Not determined No data available. >4.9 No data available. 96.5 cSt @ 40 C 14.0 cSt @ 100 C

## **10. STABILITY AND REACTIVITY**

Stability: Polymerization:	The material is stable at 70 F, 760 mm pressure. Will not occur.
Hazardous decomposition products:	Carbon monoxide, carbon dioxide, hydrogen sulfide, oxides of sulfur, oxides of nitrogen, oxides of zinc, aldehydes and hydrocarbons., Thermal decomposition may produce hydrogen sulfide and other sulfur-containing gases at temperatures greater than 150 F.
Materials to avoid:	Strong oxidizers such as nitrates, chlorates, peroxides.
Conditions to avoid:	Heat and open flames.

## **11. TOXICOLOGICAL INFORMATION**

Acute toxicity:

## Product information:

MSDS ID NO.: 0118SPE012

Name	CAS Number	Inhalation:	Dermal:	Oral:
SSA Speedway 10W-40 Motor Oil	Mixture	LD50 = 2.18 to >4 mg/l	LD50 > 2 gm/kg	LD50 >5 ml/kg
		[Rat]	[Rabbit]	[Rat]

Based on data from components this product is considered to have a low order of acute oral and dermal toxicity. Chronic skin painting studies with severely solvent refined neutral oils did not produce evidence of skin cancer in mice.

This product contains approximately 0-1.5% of a zinc alkyl dithiophosphate (ZDDP) additive. ZDDP has been found to have weak mutagenic activity in cultured cells. Repeated dermal exposures of ZDDP produced severe skin irritation, significant weight loss and testicular atrophy in male rabbits but not male rats at high concentrations. Subsequent research showed that the testicular effect was due to the severe stress and weight loss as seen with other caustic materials and not a direct effect of ZDDP. The concentration of ZDDP in this product is significantly lower than exposure levels that produced these effects in rabbits.

Used motor oil applied to the skin of rabbits at doses of 8 ml/kg/day, 5 days/wk, for two weeks, produced significant weight loss and skin irritation but no mortality. Used motor oil was found to produce skin tumors in mice in lifetime skin painting studies. Solvent extracts of used motor oils were found to be positive in the Ames mutagenicity test.

## **12. ECOLOGICAL INFORMATION**

Ecotoxicity effects: Water accomated fractions (WAF) of highly refined base oils did not produce acute toxicity in fish (100-1000 mg/l), fresh water algae (500 mg/l) or daphnia (10,000 mg/l) in 48-96 hour LC50 studies.

Used motor and/or lube oils can be toxic to birds and fish.

## **13. DISPOSAL CONSIDERATIONS**

**Cleanup Considerations:** 

This material as supplied and by itself, when discarded or disposed of, is not an EPA RCRA hazardous waste according to federal regulations. This material could become a hazardous waste if mixed or contaminated with a hazardous waste or other substance(s). It is the responsibility of the user to determine if disposal material is hazardous according to federal, state and local regulations.

Don't pollute. Conserve resources. Send used product to recycling center. Dispose of cleanup materials in accordance with applicable local, state and federal regulations.

## **14. TRANSPORT INFORMATION**

#### 49 CFR 172.101:

DOT:

Transport Information:

This material when transported via US commerce is NOT REGULATED by DOT regulations.

Packing group: DOT reportable quantity (lbs):

Not applicable. Not applicable.

TDG (Canada): Packing group: Regulated substances:

Not applicable. Not applicable.

## **15. REGULATORY INFORMATION**

#### Federal Regulatory Information:

US TSCA Chemical Inventory Section 8(b):

This product and/or its components are listed on the TSCA Chemical Inventory.

OSHA Hazard Communication Standard:

This product has been evaluated and determined not to be hazardous as defined in OSHA's Hazard Communication Standard.

#### EPA Superfund Amendment & Reauthorization Act (SARA):

SARA Section 302:This product contains the following component(s) that have been listed on EPA's<br/>Extremely Hazardous Substance (EHS) List:

Name	CERCLA/SARA - Section 302 Extremely Hazardous Substances and TPQs
Distillates, Hydrotreated Heavy	NA
Paraffinic	
Additives	NA
Zinc Alkyl Dithiophosphate	NA

#### SARA Section 304:

This product contains the following component(s) identified either as an EHS or a CERCLA Hazardous substance which in case of a spill or release may be subject to SARA reporting requirements:

Name	CERCLA/SARA - Hazardous Substances and their Reportable Quantities
Distillates, Hydrotreated Heavy	NA
Paraffinic	
Additives	NA
Zinc Alkyl Dithiophosphate	NA

SARA Section 311/312:

The following EPA hazard categories apply to this product:

None

#### SARA Section 313:

This product contains the following component(s) that may be subject to reporting on the Toxic Release Inventory (TRI) From R:

Name	CERCLA/SARA 313 Emission reporting:
Distillates, Hydrotreated Heavy	None
Paraffinic	
Additives	None
Zinc Alkyl Dithiophosphate	None

#### State and Community Right-To-Know Regulations:

The following component(s) of this material are identified on the regulatory lists below:

Distillates, Hydrotreated Heavy Paraffinic

Louisiana Right-To-Know:	Not Listed
California Proposition 65:	Not Listed
New Jersey Right-To-Know:	Not Listed.
Pennsylvania Right-To-Know:	Not Listed.
Massachusetts Right-To Know:	Not Listed.
Florida substance List:	Not Listed.
Rhode Island Right-To-Know:	Not Listed
Michigan critical materials register list:	Not Listed.
Massachusetts Extraordinarily Hazardous	Not Listed
Substances:	
California - Regulated Carcinogens:	Not Listed

Pennsylvania RTK - Special Hazardous	Not Listed
Substances:	
New Jersey - Special Hazardous Substances:	Not Listed
New Jersey - Environmental Hazardous	Not Listed
Substances List:	
Illinois - Toxic Air Contaminants	Not Listed
New York - Reporting of Releases Part 597 -	Not Listed
List of Hazardous Substances:	
Additives	
Louisiana Right-To-Know:	Not Listed
California Proposition 65:	Not Listed
New Jersey Right-To-Know:	Not Listed.
Pennsylvania Right-To-Know:	Not Listed.
Massachusetts Right-To Know:	
-	Not Listed.
Florida substance List:	Not Listed.
Rhode Island Right-To-Know:	Not Listed
Michigan critical materials register list:	Not Listed.
Massachusetts Extraordinarily Hazardous	Not Listed
Substances:	
California - Regulated Carcinogens:	Not Listed
Pennsylvania RTK - Special Hazardous	Not Listed
Substances:	
New Jersey - Special Hazardous Substances:	Not Listed
New Jersey - Environmental Hazardous	Not Listed
Substances List:	
Illinois - Toxic Air Contaminants	Not Listed
New York - Reporting of Releases Part 597 -	Not Listed
List of Hazardous Substances:	
Zinc Alkyl Dithiophosphate	
Louisiana Right-To-Know:	Not Listed
California Proposition 65:	Not Listed
New Jersey Right-To-Know:	Not Listed.
Pennsylvania Right-To-Know:	Not Listed.
Massachusetts Right-To Know:	Not Listed.
Florida substance List:	Not Listed.
Rhode Island Right-To-Know:	Not Listed
Michigan critical materials register list:	Not Listed.
Massachusetts Extraordinarily Hazardous	Not Listed
Substances:	Not Elotod
California - Regulated Carcinogens:	Not Listed
Pennsylvania RTK - Special Hazardous	Not Listed
Substances:	NOT EISTON
New Jersey - Special Hazardous Substances:	Not Listed
New Jersey - Environmental Hazardous	Not Listed
Substances List:	
Illinois - Toxic Air Contaminants	Not Listed
New York - Reporting of Releases Part 597 -	Not Listed
List of Hazardous Substances:	

### **Canadian Regulatory Information:**

Canada DSL/NDSL Inventory:

This product and/or its components are listed either on the Domestic Substances List (DSL) or are exempt.

## **16. OTHER INFORMATION**

#### Additional Information:

No data available.

#### Prepared by: Craig M. Parker Manager, Toxicology and Product Safety

The information and recommendations contained herein are based upon tests believed to be reliable. However, Speedway SuperAmerica (SSA) does not guarantee their accuracy or completeness nor shall any of this information constitute a warranty, whether expressed or implied, as to the safety of the goods, the merchantability of the goods, or the fitness of the goods for a particular purpose. Adjustment to conform to actual conditions of usage maybe required. SSA assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied.

#### End of Safety Data Sheet



## **Material Safety Data Sheet**

# MSDS ID NO.: 0130SPE012 Revision date: 05/25/2011 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product name: Synonym:	Speedway Dexron III/Mercon Automatic Transmission Fluid Dexron-III/Mercon Automatic Transmission Fluid, Speedway; Speedway Dexron ATF; Speedway Mercon ATF
Chemical Family: Formula:	Motor/Lube Oil Mixture
<b>Manufacturer:</b> Marathon Petroleum Company LP 539 South Main Street Findlay OH 45840	

Other information:419-421-3070Emergency telephone number:877-627-5463

#### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Lube oil is a complex mixture of highly refined lubricating base stocks and additives.

#### Product information:

Name	CAS Number	Weight %	ACGIH Exposure Limits:	OSHA - Vacated PELs - Time Weighted Ave	Other:
Speedway Dexron III/Mercon ATF	Mixture	100			

#### Component Information:

Name	CAS Number	Weight %	ACGIH Exposure Limits:	OSHA - Vacated PELs - Time Weighted Ave	Other:
Solvent Refined, Hydrotreated Heavy Paraffinic Distillate	64742-54-7	93-95			Mineral Oil Mist (MOM) =5 mg/m <sup>3</sup> TWA = 10 mg/m <sup>3</sup> STEL
Additives	Not specified	5-7			

Notes:

The manufacturer has voluntarily elected to reflect exposure limits contained in OSHA's 1989 air contaminants standard in its MSDS's, even though certain of those exposure limits were vacated in 1992.

## 3. HAZARDS IDENTIFICATION

## **EMERGENCY OVERVIEW**

# THIS LUBRICANT IS A NON-VOLATILE AND NON-COMBUSTIBLE, AMBER COLORED LIQUID, BUT WILL IGNITE AND BURN AT ELEVATED TEMPERATURES.

#### Inhalation:

No acute effects expected from routine operations. Overheating of product may produce vapors which can cause respiratory irritation, dizziness and nausea.

#### Ingestion:

Product has a low order of acute toxicity. This is based on data from components or similar products. Skin contact:

Prolonged or repeated liquid contact can cause dermatitis, folliculitis or oil acne.

Eye contact:

Liquid or vapor contact may result in slight eye irritation.

#### Carcinogenic Evaluation:

#### Product information:

Name	IARC	NTP	ACGIH -	OSHA - Select
	Carcinogens:	Carcinogens:	Carcinogens:	Carcinogens:
Speedway Dexron III/Mercon ATF Mixture	NE			

#### Notes:

The International Agency for Research on Cancer (IARC) has determined that there is no evidence that severely solvent-refined oils are carcinogenic to experimental animals.

#### Component Information:

Name	IARC	NTP	ACGIH -	OSHA - Select
	Carcinogens:	Carcinogens:	Carcinogens:	Carcinogens:
Solvent Refined, Hydrotreated Heavy Paraffinic Distillate 64742-54-7	Supplement 7 [1987], Monograph 33 [1984]			Present

## 4. FIRST AID MEASURES Eye Contact: Flush eyes with large amounts of tepid water for at least 15 minutes. If symptoms or irritation occur, call a physician. Skin Contact: Wash with soap and large amounts of water. Remove contaminated clothing. If symptoms or irritation occur, call a physician. If product is accidentally injected into or under the skin, regardless of wound size or initial absence of symptoms, the individual should be evaluated immediately by a physician as a surgical emergency. Ingestion: Not expected to be acutely toxic. If large amounts are swallowed, immediately call a physician. Inhalation: If affected, move person to fresh air. If breathing is difficult, administer oxygen. If not breathing or if no heartbeat, give artificial respiration or cardiopulmonary resuscitation (CPR). Immediately call a physician. If symptoms or irritation occur with any exposure, call a physician. NOTES TO PHYSICIAN: No data available. Medical Conditions Aggravated By Exposure:

Skin contact could aggravate an existing skin disorder or dermatitis condition.

## **5. FIRE FIGHTING MEASURES**

Suitable extinguishing media:	For small fires, Class B fire extinguishing media such as CO2, dry chemical, foam (AFFF/ATC) or water spray can be used. For large fires, water spray, fog or foam (AFFF/ATC) can be used. Fire fighting should be attempted only by those who are adequately trained and equipped with proper protective equipment.				
Specific hazards:	This material is not combustible per the OSHA Hazard Communication Standard, but will ignite and burn at elevated temperatures.				
Special protective equipment for firefighters:	Avoid using straight water streams. Water spray and foam (AFFF/ATC) must be applied carefully to avoid frothing and from as far a distance as possible. Avoid excessive water spray application. Use water spray to cool exposed surfaces from as far a distance as possible. Keep run-off water out of sewers and water sources.				
Flash point: Autoignition temperature: Flammable limits in air - lower (%): Flammable limits in air - upper (%):	400 F, 204.4 C (COC) No data available. No data available. No data available.				

NFPA rating: Health: 1 Flammability: 1 Instability: 0 Other: -

### 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions:

Keep public away. Isolate and evacuate area. Shut off source if safe to do so. Advise authorities and National Response Center (800-424-8802) if the product has entered a water course or sewer. Advise local and state emergency services agencies, if appropriate. Contain liquid with sand or soil. Recover and return free product to proper containers. Use suitable absorbent materials such as vermiculite, sand, or clay to clean up residual liquids.

### 7. HANDLING AND STORAGE

### Handling:

Comply with all applicable EPA, OSHA, NFPA and consistent state and local requirements. Use appropriate grounding and bonding practices. Store in properly closed containers that are appropriately labeled and in a cool well-ventilated area. Do not cut, drill, grind or weld on empty containers since they may contain explosive residues. Do not pressurize or expose to heat, open flames, strong oxidizers or other sources of ignition.

Avoid repeated and prolonged skin contact. Exercise good personal hygiene including removal of soiled clothing and prompt washing with soap and water.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### PERSONAL PROTECTIVE EQUIPMENT

Engineering measures:	Local or general exhaust required when using at elevated temperatures that generate vapors or mists.
Respiratory protection:	Not required under normal conditions and adequate ventilation. Approved organic vapor chemical cartridge or supplied air respirators should be worn when significant vapors are generated. Observe respirator assigned protection factors (APFs) criteria cited in federal OSHA 1910.134. Self-contained breathing apparatus should be used for fire fighting.
Skin and body protection:	Use chemical resistant gloves such as neoprene, nitrile, or PVA to prevent prolonged or repeated skin contact.
Eye protection:	No special eye protection is normally required.

### 9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance: Physical state (Solid/Liquid/Gas): Substance type (Pure/Mixture): Color: Odor: Molecular weight: pH: Boiling point/range (5-95%): MSDS ID NO.: 0130SPE012 Amber Liquid Liquid Mixture Amber Hydrocarbon Not determined. Neutral 686-966 F

Product name: Speedway Dexron III/Mercon Automatic Transmission Fluid

### 9. PHYSICAL AND CHEMICAL PROPERTIES:

Melting point/range: Decomposition temperature: Specific gravity: Density: Bulk density: Vapor density: Vapor pressure: Evaporation rate: Solubility: Solubility: Solubility in other solvents: Partition coefficient (n-octanol/water): VOC content(%): Viscosity: Not determined. Not applicable. 0.880 @ 60 F 7.32 lbs/gal @ 60 F No data available. <1 mm Hg @ 100 F No data available. <1% No data available. >4.9 No data available. >6.0 cSt @ 40 C 9.5 cSt @ 100 C

## **10. STABILITY AND REACTIVITY**

Stability:

Polymerization:

Hazardous decomposition products:

The material is stable at 70 F, 760 mm pressure.

Will not occur.

Carbon monoxide, carbon dioxide, hydrogen sulfide, oxides of sulfur, oxides of nitrogen, oxides of zinc, aldehydes and hydrocarbons., Thermal decomposition may produce hydrogen sulfide and other sulfur-containing gases at temperatures greater than 150 F.

Materials to avoid:

Conditions to avoid:

Strong oxidizers such as nitrates, chlorates, peroxides.

Heat and open flames.

## 11. TOXICOLOGICAL INFORMATION

Acute toxicity:

Product information:

Name	CAS Number	Inhalation:	Dermal:	Oral:
Speedway Dexron III/Mercon ATF	Mixture	LD50 = 2.18 to > 4 mg/l [Rat]	LD50 > 2 gm/kg [Rabbit]	LD50 > 5 ml/kg [Rat]

**Toxicology Information:** 

Based on data from components this product is considered to have a low order of acute oral and dermal toxicity. Chronic skin painting studies with severely solvent refined neutral oils did not produce evidence of skin cancer in mice.

This product contains approximately 0-1.5% of a zinc alkyl dithiophosphate (ZDDP) additive. ZDDP has been found to have weak mutagenic activity in cultured cells. Repeated dermal exposures of ZDDP produced severe skin irritation, significant weight loss and testicular atrophy in male rabbits but not male rats at high concentrations. Subsequent research showed that the testicular effect was due to the severe stress and weight loss as seen with other caustic materials and not a direct effect of ZDDP. The concentration of ZDDP in this product is significantly lower than exposure levels that produced these effects in rabbits.

# **12. ECOTOXICOLOGICAL INFORMATION**

Las a source to a structure of later of the set of the	
Mobility:	No data available.
Ecotoxicity:	
Ecoloxicity.	No data available.
Bioaccummulation:	
	No data available.
Persistance/Biodegradation:	
	Water accomated fractions (WAF) of highly refined base oils did not produce acute toxicity in fish (100-1000 mg/l), fresh water algae (500 mg/l) or daphnia (10,000 mg/l) in 48-96 hour LC50 studies.
	Used motor and/or lube oils can be toxic to birds and fish.
	12 DISDOGAL CONSIDERATIONS

### **13. DISPOSAL CONSIDERATIONS**

**Cleanup Considerations:** 

This material as supplied and by itself, when discarded or disposed of, is not an EPA RCRA hazardous waste according to federal regulations. This material could become a hazardous waste if mixed or contaminated with a hazardous waste or other substance(s). It is the responsibility of the user to determine if disposal material is hazardous according to federal, state and local regulations.

Don't pollute. Conserve resources. Send used product to recycling center. Dispose of cleanup materials in accordance with applicable local, state and federal regulations.

## **14. TRANSPORT INFORMATION**

### 49 CFR 172.101:

### DOT:

This material when transported via US commerce is NOT REGULATED by DOT Transport Information: regulations.

Packing group: DOT reportable quantity (lbs):

Not applicable. Not applicable.

# **15. REGULATORY INFORMATION**

**US Federal Regulatory** Information: MSDS ID NO .: 0130SPE012

Product name: Speedway Dexron III/Mercon Automatic Transmission Fluid

US TSCA Chemical Inventory Section 8(b):

This product and/or its components are listed on the TSCA Chemical Inventory.

OSHA Hazard Communication Standard:

This product has been evaluated and determined not to be hazardous as defined in OSHA's Hazard Communication Standard.

### EPA Superfund Amendment & Reauthorization Act (SARA):

SARA Section 302:

This product contains the following component(s) that have been listed on EPA's Extremely Hazardous Substance (EHS) List:

Name	CERCLA/SARA - Section 302 Extremely Hazardous Substances and TPQs
Solvent Refined, Hydrotreated Heavy Paraffinic Distillate	NA
Additives	NA

### SARA Section 304:

This product contains the following component(s) identified either as an EHS or a CERCLA Hazardous substance which in case of a spill or release may be subject to SARA reporting requirements:

Name	CERCLA/SARA - Hazardous Substances and their Reportable Quantities
Solvent Refined, Hydrotreated Heavy Paraffinic Distillate	NA
Additives	NA

SARA Section 311/312

The following EPA hazard categories apply to this product:

None

SARA Section 313:

This product contains the following component(s) that may be subject to reporting on the Toxic Release Inventory (TRI) From R:

Name	CERCLA/SARA 313 Emission reporting:	
Solvent Refined, Hydrotreated Heavy Paraffinic Distillate	None	
Additives	None	

### State and Community Right-To-Know Regulations:

The following component(s) of this material are identified on the regulatory lists below:

### Solvent Refined, Hydrotreated Heavy Paraffinic Distillate

Louisiana Right-To-Know:	Not Listed
California Proposition 65:	Not Listed
New Jersey Right-To-Know:	Not Listed.
Pennsylvania Right-To-Know:	Not Listed.
Massachusetts Right-To Know:	Not Listed.
Florida substance List:	Not Listed.
Rhode Island Right-To-Know:	Not Listed
Michigan critical materials register list:	Not Listed.
Massachusetts Extraordinarily Hazardous Substances:	Not Listed
California - Regulated Carcinogens:	Not Listed
Pennsylvania RTK - Special Hazardous Substances:	Not Listed
New Jersey - Special Hazardous Substances:	carcinogen

Solvent Refined, Hydrotreated Heavy Paraffinic Distillate	
New Jersey - Environmental Hazardous	Not Listed
Substances List:	
Illinois - Toxic Air Contaminants	Not Listed
New York - Reporting of Releases Part 597 -	Not Listed
List of Hazardous Substances:	
Additives	
Louisiana Right-To-Know:	Not Listed
California Proposition 65:	Not Listed
New Jersey Right-To-Know:	Not Listed.
Pennsylvania Right-To-Know:	Not Listed.
Massachusetts Right-To Know:	Not Listed.
Florida substance List:	Not Listed.
Rhode Island Right-To-Know:	Not Listed
Michigan critical materials register list:	Not Listed.
Massachusetts Extraordinarily Hazardous	Not Listed
Substances:	
California - Regulated Carcinogens:	Not Listed
Pennsylvania RTK - Special Hazardous	Not Listed
Substances:	
New Jersey - Special Hazardous Substances:	Not Listed
New Jersey - Environmental Hazardous	Not Listed
Substances List:	
Illinois - Toxic Air Contaminants	Not Listed
New York - Reporting of Releases Part 597 -	Not Listed
List of Hazardous Substances:	

### Canadian Regulatory Information:

Canada DSL/NDSL Inventory: This product and/or its components are listed either on the Domestic Substances List (DSL) or are exempt.

NOTE: Not Applicable.

## **16. OTHER INFORMATION**

No data available.

Additional Information:

Prepared by:

Mark S. Swanson, Manager, Toxicology and Product Safety

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### End of Safety Data Sheet



# **Material Safety Data Sheet**

 MSDS ID NO.:
 0119SPE012

 Revision date:
 05/25/2011

 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product code:SW03Product name:Speedway 15W-40 Heavy Duty Diesel Motor OilSynonym:Speedway 15W-40 HD Diesel Motor Oil; Speedway 15W-40 Motor Oil; Speedway 15W-40 Motor OilChemical Family:Motor/Lube OilFormula:Motor/Lube OilManufacturer:Mixture

Speedway LLC P.O. Box 1500 Enon, OH 45501

 Other information:
 419-421-3070

 Emergency telephone number:
 877-627-5463

# 2. COMPOSITION/INFORMATION ON INGREDIENTS

Motor oil is a complex mixture of highly refined lubricating oil base stocks and additives.

### Product information:

Name	CAS Number	Weight %	ACGIH Exposure Limits:	OSHA - Vacated PELs - Time Weighted Ave	Other:
Speedway 15W-40 HD Diesel Motor Oil	Mixture	100			

### **Component Information:**

Name	CAS Number	Weight %	ACGIH Exposure Limits:	OSHA - Vacated PELs - Time Weighted Ave	Other:
Distillates, Petroleum Solvent- Refined Heavy Paraffinic	64741-88-4	88-93			Mineral Oil Mist (MOM) =5 mg/m <sup>3</sup> TWA = 10 mg/m <sup>3</sup> STEL
Additives	Not specified	7-11			
Zinc Dialkyl Dithiophosphate	68457-79-4	1.2-1.5			

Notes:

The manufacturer has voluntarily elected to reflect exposure limits contained in OSHA's 1989 air contaminants standard in its MSDS's, even though certain of those exposure limits were vacated in 1992.

# **3. HAZARDS IDENTIFICATION**

# EMERGENCY OVERVIEW

MOTOR OIL IS A NON-VOLATILE AND NON-COMBUSTIBLE, AMBER COLORED LIQUID, BUT WILL IGNITE AND BURN AT ELEVATED TEMPERATURES.

### Inhalation:

No acute effects expected from routine operations. Overheating of product may produce vapors which can cause respiratory irritation, dizziness and nausea.

### Ingestion:

Product has a low order of acute toxicity. This is based on data from components or similar products.

### Skin contact:

Prolonged or repeated liquid contact can cause dermatitis, folliculitis or oil acne.

### Eye contact:

Liquid or vapor contact may result in slight eye irritation.

### **Carcinogenic Evaluation:**

### **Product information:**

Name	IARC Carcinogens:	NTP Carcinogens:	ACGIH - Carcinogens:	OSHA - Select Carcinogens:
Speedway 15W-40 HD Diesel Motor	NE			
Oil				
Mixture				

Notes:

The International Agency for Research on Cancer (IARC) has determined that there is no evidence that severely solvent-refined oils are carcinogenic to experimental animals.

### **Component Information:**

Name	IARC	NTP	ACGIH -	OSHA - Select
	Carcinogens:	Carcinogens:	Carcinogens:	Carcinogens:
Distillates, Petroleum Solvent- Refined Heavy Paraffinic 64741-88-4	Supplement 7 [1987], Monograph 33 [1984]			Present

# 4. FIRST AID MEASURES

Eye Contact:	
	Flush eyes with large amounts of tepid water for at least 15 minutes. If symptoms or irritation occur, call a physician.
Skin Contact:	
	Wash with soap and large amounts of water. Remove contaminated clothing. If symptoms or irritation occur, call a physician.
	If product is accidentally injected into or under the skin, regardless of wound size or initial absence of symptoms, the individual should be evaluated immediately by a physician as a surgical emergency.
Ingestion:	
	Not expected to be acutely toxic. If large amounts are swallowed, immediately call a physician.
Inhalation:	
	If affected, move person to fresh air. If breathing is difficult, administer oxygen. If not breathing or if no heartbeat, give artificial respiration or cardiopulmonary resuscitation (CPR). Immediately call a physician. If symptoms or irritation occur with any exposure, call a physician.
NOTES TO PHYSICIAN:	
	No data available.
Medical Conditions Aggravated By Exposure:	

Skin contact could aggravate an existing skin disorder or dermatitis condition.

# **5. FIRE FIGHTING MEASURES**

Suitable extinguishing media:	For small fires, Class B fire extinguishing media such as CO2, dry chemical, foam (AFFF/ATC) or water spray can be used. For large fires, water spray, fog or foam (AFFF/ATC) can be used. Fire fighting should be attempted only by those who are adequately trained and equipped with proper protective equipment.
Specific hazards:	This material is not combustible per the OSHA Hazard Communication Standard, but will ignite and burn at elevated temperatures.
Special protective equipment for firefighters:	Avoid using straight water streams. Water spray and foam (AFFF/ATC) must be applied carefully to avoid frothing and from as far a distance as possible. Avoid excessive water spray application. Use water spray to cool exposed surfaces from as far a distance as possible. Keep run-off water out of sewers and water sources.
Flash point: Autoignition temperature: Flammable limits in air - lower (%): Flammable limits in air - upper (%):	>425 F, >218.3 C No data available. No data available. No data available.

### NFPA rating:

Health: 1 Flammability: 1 Instability: 0 Other: -

# 6. ACCIDENTAL RELEASE MEASURES

### **Personal precautions:**

Keep public away. Isolate and evacuate area. Shut off source if safe to do so. Advise authorities and National Response Center (800-424-8802) if the product has entered a water course or sewer. Advise local and state emergency services agencies, if appropriate. Contain liquid with sand or soil. Recover and return free product to proper containers. Use suitable absorbent materials such as vermiculite, sand, or clay to clean up residual liquids.

# 7. HANDLING AND STORAGE

### Handling:

Comply with all applicable EPA, OSHA, NFPA and consistent state and local requirements. Use appropriate grounding and bonding practices. Store in properly closed containers that are appropriately labeled and in a cool well-ventilated area. Do not cut, drill, grind or weld on empty containers since they may contain explosive residues. Do not pressurize or expose to heat, open flames, strong oxidizers or other sources of ignition.

Avoid repeated and prolonged skin contact. Exercise good personal hygiene including removal of soiled clothing and prompt washing with soap and water.

# **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

### PERSONAL PROTECTIVE EQUIPMENT

Engineering measures:	Local or general exhaust required when using at elevated temperatures that generate vapors or mists.
Respiratory protection:	Not required under normal conditions and adequate ventilation. Approved organic vapor chemical cartridge or supplied air respirators should be worn for exposures to any components exceeding the TWA or STEL. Observe respirator assigned protection factors (APFs) criteria cited in federal OSHA 1910.134. Self-contained breathing apparatus should be used for fire fighting.
Skin and body protection:	Use chemical resistant gloves such as neoprene, nitrile, or PVA to prevent prolonged or repeated skin contact.
Eye protection:	No special eye protection is normally required.

# 9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance: Physical state (Solid/Liquid/Gas): Substance type (Pure/Mixture): Color: Odor: Molecular weight: pH: Boiling point/range (5-95%):

MSDS ID NO.: 0119SPE012

Amber Liquid Liquid Mixture Amber Hydrocarbon Not determined. Neutral >425 F, >218.3 C

Product name: Speedway 15W-40 Heavy Duty Diesel Motor Oil

# 9. PHYSICAL AND CHEMICAL PROPERTIES:

Melting point/range: Decomposition temperature: Specific gravity: Density: Bulk density: Vapor density: Vapor pressure: Evaporation rate: Solubility: Solubility in other solvents: Partition coefficient (n-octanol/water): VOC content(%): Viscosity: Not determined. Not applicable. 0.890 @ 60 F 7.44 lbs/gal @ 60 F No data available. No data available. Not determined. Not determined No data available. >4.9 No data available. 118.1 cSt @ 40 C 15.0 cSt @ 100 C

# **10. STABILITY AND REACTIVITY**

Stability:

**Polymerization:** 

Hazardous decomposition products:

The material is stable at 70 F, 760 mm pressure.

Will not occur.

Carbon monoxide and carbon dioxide, aldehydes, hydrocarbons., Thermal decomposition may produce hydrogen sulfide and other sulfur-containing gases at temperatures greater than 150 F.

Strong oxidizers such as nitrates, chlorates, peroxides.

Materials to avoid:

Conditions to avoid:

Heat and open flames.

# **11. TOXICOLOGICAL INFORMATION**

### Acute toxicity:

### **Product information:**

Name	CAS Number	Inhalation:	Dermal:	Oral:
Speedway 15W-40 HD Diesel Motor	Mixture	LD50 = 2.18 to >4 mg/l	LD50 > 2 gm/kg	LD50 > 5 ml/kg
Oil		[Rat]	[Rabbit]	[Rat]

**Toxicology Information:** 

Based on data from components this product is considered to have a low order of acute oral and dermal toxicity. Chronic skin painting studies with severely solvent refined neutral oils did not produce evidence of skin cancer in mice.

This product contains approximately 0-1.5% of a zinc alkyl dithiophosphate (ZDDP) additive. ZDDP has been found to have weak mutagenic activity in cultured cells. Repeated dermal exposures of ZDDP produced severe skin irritation, significant weight loss and testicular atrophy in male rabbits but not male rats at high concentrations. Subsequent research showed that the testicular effect was due to the severe stress and weight loss as seen with other caustic materials and not a direct effect of ZDDP. The concentration of ZDDP in this product is significantly lower than exposure levels that produced these effects in rabbits.

Used motor oil applied to the skin of rabbits at doses of 8 ml/kg/day, 5 days/wk, for two weeks, produced significant weight loss and skin irritation but no mortality. Used motor oil was found to produce skin tumors in mice in lifetime skin painting studies. Solvent extracts of used motor oils were found to be positive in the Ames mutagenicity test.

# 12. ECOTOXICOLOGICAL INFORMATION

Mobility:	No data available.	
Ecotoxicity:	No data available.	
Bioaccummulation:	No data available.	
Persistance/Biodegradation:	Water accomated fractions (WAF) of highly refined base oils did not produce acute toxicity in fish (100-1000 mg/l), fresh water algae (500 mg/l) or daphnia (10,000 mg/l) in 48-96 hour LC50 studies. Used motor and/or lube oils can be toxic to birds and fish.	
13. DISPOSAL CONSIDERATIONS		
Cleanup Considerations:	This material as supplied and by itself, when discarded or disposed of, is not an EPA RCRA hazardous waste according to federal regulations. This material could become a hazardous waste if mixed or contaminated with a hazardous waste or other substance(s). It is the responsibility of the user to determine if disposal material is hazardous according to federal, state and local regulations.	

Don't pollute. Conserve resources. Send used product to recycling center. Dispose of cleanup materials in accordance with applicable local, state and federal regulations.

## **14. TRANSPORT INFORMATION**

### 49 CFR 172.101:

# **14. TRANSPORT INFORMATION**

### DOT:

Transport Information:

This material when transported via US commerce is NOT REGULATED by DOT regulations.

Packing group: DOT reportable quantity (lbs):

Not applicable. Not applicable.

# **15. REGULATORY INFORMATION**

### **US Federal Regulatory** Information:

US TSCA Chemical Inventory Section 8(b):

**OSHA Hazard Communication Standard:** 

This product and/or its components are listed on the TSCA Chemical Inventory.

This product has been evaluated and determined not to be hazardous as defined in OSHA's Hazard Communication Standard.

### EPA Superfund Amendment & Reauthorization Act (SARA):

SARA Section 302:

This product contains the following component(s) that have been listed on EPA's Extremely Hazardous Substance (EHS) List:

Name	CERCLA/SARA - Section 302 Extremely Hazardous Substances and TPQs
Distillates, Petroleum Solvent-	NA
Refined Heavy Paraffinic	
Additives	NA
Zinc Dialkyl Dithiophosphate	NA

### SARA Section 304:

This product contains the following component(s) identified either as an EHS or a CERCLA Hazardous substance which in case of a spill or release may be subject to SARA reporting requirements:

Name	CERCLA/SARA - Hazardous Substances and their Reportable Quantities
Distillates, Petroleum Solvent-	NA
Refined Heavy Paraffinic	
Additives	NA
Zinc Dialkyl Dithiophosphate	NA

SARA Section 311/312

The following EPA hazard categories apply to this product:

None

SARA Section 313:

This product contains the following component(s) that may be subject to reporting on the Toxic Release Inventory (TRI) From R:

Name	CERCLA/SARA 313 Emission reporting:	
Distillates, Petroleum Solvent- Refined Heavy Paraffinic	None	
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Name	CERCLA/SARA 313 Emission reporting:
Additives	None
Zinc Dialkyl Dithiophosphate	= 1.0 % de minimis concentration

**State and Community Right-To-Know Regulations:** The following component(s) of this material are identified on the regulatory lists below:

	0,
Distillates, Petroleum Solvent-Refined Heavy Paraffinic	
Louisiana Right-To-Know:	Not Listed
California Proposition 65:	Not Listed
New Jersey Right-To-Know:	Not Listed.
Pennsylvania Right-To-Know:	Not Listed.
Massachusetts Right-To Know:	Not Listed.
Florida substance List:	Not Listed.
Rhode Island Right-To-Know:	Not Listed
Michigan critical materials register list:	Not Listed.
Massachusetts Extraordinarily Hazardous	Not Listed
Substances:	Not Elotod
California - Regulated Carcinogens:	Not Listed
Pennsylvania RTK - Special Hazardous	Not Listed
Substances:	Not Elotod
New Jersey - Special Hazardous Substances:	carcinogen
New Jersey - Environmental Hazardous	Not Listed
Substances List:	
Illinois - Toxic Air Contaminants	Not Listed
New York - Reporting of Releases Part 597 -	Not Listed
List of Hazardous Substances:	
Additives	
Louisiana Right-To-Know:	Not Listed
California Proposition 65:	Not Listed
New Jersey Right-To-Know:	Not Listed.
Pennsylvania Right-To-Know:	Not Listed.
Massachusetts Right-To Know:	Not Listed.
Florida substance List:	Not Listed.
Rhode Island Right-To-Know:	Not Listed
Michigan critical materials register list:	Not Listed.
Massachusetts Extraordinarily Hazardous	Not Listed
Substances:	
California - Regulated Carcinogens:	Not Listed
Pennsylvania RTK - Special Hazardous	Not Listed
Substances:	
New Jersey - Special Hazardous Substances:	Not Listed
New Jersey - Environmental Hazardous	Not Listed
Substances List:	
Illinois - Toxic Air Contaminants	Not Listed
New York - Reporting of Releases Part 597 -	Not Listed
List of Hazardous Substances:	
Zinc Dialkyl Dithiophosphate	
Louisiana Right-To-Know:	Not Listed
California Proposition 65:	Not Listed
New Jersey Right-To-Know:	sn 3012
Pennsylvania Right-To-Know:	Environmental hazard
Massachusetts Right-To Know:	Not Listed.
Florida substance List:	Not Listed.
Rhode Island Right-To-Know:	Not Listed

Distillates, Petroleum Solvent-Refined Heavy Paraffinic Michigan aritical materials register list:			
Michigan critical materials register list: Massachusetts Extraordinarily Hazardous		= 100 lb Annual usage threshold Not Listed	
Substances:			
California - Regulated Carcino	-	Not Listed	
Pennsylvania RTK - Special H Substances:	Hazardous	Not Listed	
New Jersey - Special Hazard	ous Substances:	Not Listed	
New Jersey - Environmental I		SN 3012 TPQ 500 lb (Category Code N982. Includes any	
Substances List:		unique chemical substance that contains the named metal	
		as part of that chemical structure)	
Illinois - Toxic Air Contaminar	nts	Not Listed	
New York - Reporting of Rele		Not Listed	
List of Hazardous Substances	5:		
Canadian Regulatory Information:			
Canada DSL/NDSL Inventory:	This product and/or its	components are listed either on the Domestic Substances List	
	(DSL) or are exempt.		
	( ), I		
NOTE:	Not Applicable.		
16. OTHER INFORMATION			
	Number of the second second		
Additional Information:	No data available.		
Prepared by:	Mark S. Swanson, Mar	nager, Toxicology and Product Safety	

The information and recommendations contained herein are based upon tests believed to be reliable. However, Speedway LLC does not guarantee their accuracy or completeness nor shall any of this information constitute a warranty, whether expressed or implied, as to the safety of goods, the merchantability of the goods, or the fitness of the goods for a particular purpose. Adjustment to conform to actual conditions of usage maybe required. Speedway assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied.

### End of Safety Data Sheet



SAFETY DATA SHEET

SDS ID NO.: Revision Date: 0114SPE012 05/18/2015

**1. IDENTIFICATION** 

Product Name:	Speedway No. 2 Low Sulfur Diesel 500 ppm Sulfur Max
Synonym: Chemical Family:	Diesel No. 2 500 ppm Sulfur Max; No. 2 Diesel, Motor Vehicle Use, Undyed; No. 2 Diesel 500 ppm Sulfur Max; No. 2 MV 500 Diesel; No. 2 Diesel (0.05% Sulfur Max) Complex Hydrocarbon Substance
Recommended Use: Use Restrictions:	Fuel. All others.
Supplier Name and Address: Speedway LLC P.O. Box 1500 Enon, OH 45501	
SDS information:	1-419-421-3070
Emergency Telephone:	1-877-627-5463

2. HAZARD IDENTIFICATION

### **Classification**

### **OSHA Regulatory Status**

This chemical is considered hazardous according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids	Category 3
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin corrosion/irritation	Category 2
Carcinogenicity	Category 2
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 2
Aspiration toxicity	Category 1
Acute aquatic toxicity	Category 2
Chronic aquatic toxicity	Category 2

### Hazards Not Otherwise Classified (HNOC)

Static accumulating flammable liquid

### Label elements

### **EMERGENCY OVERVIEW**

Danger

# FLAMMABLE LIQUID AND VAPOR May accumulate electrostatic charge and ignite or explode May be fatal if swallowed and enters airways Harmful if inhaled Causes skin irritation Suspected of causing cancer May cause drowsiness or dizziness May cause damage to organs (thymus, liver, bone marrow) through prolonged or repeated exposure Toxic to aquatic life with long lasting effects Appearance Clear or Amber Liquid Physical State Liquid Odor Slight Hydrocarbon **Precautionary Statements - Prevention**

Obtain special instructions before use Do not handle until all safety precautions have been read and understood Keep away from heat/sparks/open flames/hot surfaces. - No smoking Keep container tightly closed Ground/bond container and receiving equipment Use only non-sparking tools Use explosion-proof electrical/ventilating/lighting/equipment Take precautionary measures against static discharge Do not breathe mist/vapors/sprav Use only outdoors or in a well-ventilated area Wear protective gloves/protective clothing/eye protection/face protection Wash hands and any possibly exposed skin thoroughly after handling Avoid release to the environment

### **Precautionary Statements - Response**

IF exposed or concerned: Get medical attention IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower If skin irritation occurs: Get medical attention Wash contaminated clothing before reuse IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor if you feel unwell IF SWALLOWED: Immediately call a POISON CENTER or doctor Do NOT induce vomiting In case of fire: Use water spray, fog or regular foam for extinction Collect spillage

### **Precautionary Statements - Storage**

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

**Precautionary Statements - Disposal** Dispose of contents/container at an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

No. 2 Diesel is a complex mixture of parafffins, cycloparaffins, olefins, and aromatic hydrocarbons having hydrocarbon chain lengths predominately in the range of eleven to twenty carbons. May contain a trace amount of benzene (<0.01%). May contain small amounts of dye and other additives (<0.15%) which are not considered hazardous at the concentrations used.

### **Composition Information:**

Name	CAS Number	Weight %
No. 2 Diesel Fuel	68476-34-6	50-100
Kerosine, Petroleum	8008-20-6	0-50
Fuels, Diesel, C9-18-Alkane Branched and Linear	1159170-26-9	0-5
Alkanes, C10-C20 branched and linear	928771-01-1	0-5
Naphthalene	91-20-3	0.01-0.5

# 4. FIRST AID MEASURES

First Aid Measures	
General advice	In case of accident or if you feel unwell, seek medical advice immediately (show directions for use or safety data sheet if possible).
Inhalation:	Remove to fresh air. If not breathing, institute rescue breathing. If breathing is difficult, ensure airway is clear, give oxygen and continue to monitor. If heart has stopped, immediately begin cardiopulmonary resuscitation (CPR). Keep affected person warm and at rest. GET IMMEDIATE MEDICAL ATTENTION.
Skin Contact:	Immediately wash exposed skin with plenty of soap and water while removing contaminated clothing and shoes. May be absorbed through the skin in harmful amounts. Get medical attention if irritation persists. Any injection injury from high pressure equipment should be evaluated immediately by a physician as potentially serious (See NOTES TO PHYSICIAN).
	Place contaminated clothing in closed container until cleaned or discarded. If clothing is to be laundered, inform the person performing the operation of contaminant's hazardous properties. Destroy contaminated, non-chemical resistant footwear.
Eye Contact:	Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Gently remove contacts while flushing. GET IMMEDIATE MEDICAL ATTENTION.
Ingestion:	Do not induce vomiting because of danger of aspirating liquid into lungs, causing serious damage and chemical pneumonitis. If spontaneous vomiting occurs, keep head below hips, or if patient is lying down, turn body and head to side to prevent aspiration and monitor for breathing difficulty. Never give anything by mouth to an unconscious person. Keep affected person warm and at rest. GET IMMEDIATE MEDICAL ATTENTION.
Most important signs and symptom	ns, both short-term and delayed with overexposure
Adverse Effects:	Acute: Headache, drowsiness, dizziness, loss of coordination, disorientation and fatigue. Delayed: Dry skin and possible irritation with repeated or prolonged exposure.
Indication of any immediate medica	al attention and special treatment needed
NOTES TO PHYSICIAN:	SKIN: Leaks or accidents involving high-pressure equipment may inject a stream of material through the skin and initially produce an injury that may not appear serious. Only a small puncture wound may appear on the skin surface but, without proper treatment and depending on the nature, original pressure, volume, and location of the injected material, can compromise blood supply to an affected body part. Prompt surgical debridement of the wound may be necessary to prevent irreversible loss of function and/or the affected body part. High pressure injection injuries may be SERIOUS SURGICAL EMERGENCIES.

# **5. FIRE-FIGHTING MEASURES**

### Suitable extinguishing media

For small fires, Class B fire extinguishing media such as CO2, dry chemical, foam (AFFF/ATC) or water spray can be used. For large fires, water spray, fog or foam (AFFF/ATC) can be used. Firefighting should be attempted only by those who are adequately trained and equipped with proper protective equipment.

### Unsuitable extinguishing media

Do not use straight water streams to avoid spreading fire.

### Specific hazards arising from the chemical

This product has been determined to be a flammable liquid per the OSHA Hazard Communication Standard and should be handled accordingly. May accumulate electrostatic charge and ignite or explode. Vapors may travel along the ground or be moved by ventilation and ignited by many sources such as pilot lights, sparks, electric motors, static discharge, or other ignition sources at locations distant from material handling. Flashback can occur along vapor trail. For additional fire related information, see NFPA 30 or the North American Emergency Response Guide 128.

### Hazardous combustion products

Smoke, carbon monoxide, and other products of incomplete combustion.

### **Explosion data**

Sensitivity to Mechanical Impact No. Sensitivity to Static Discharge Yes.

### Special protective equipment and precautions for firefighters

Firefighters should wear full protective clothing and positive-pressure self-contained breathing apparatus (SCBA) with a full face-piece, as appropriate. Avoid using straight water streams. Water spray and foam (AFFF/ATC) must be applied carefully to avoid frothing and from as far a distance as possible. Avoid excessive water spray application. Keep surrounding area cool with water spray from a distance and prevent further ignition of combustible material. Keep run-off water out of sewers and water sources.

NFPA:	Health 1	Flammability 2	Instability 0	Special Hazards -
	6. ACC	<b>IDENTAL RELEA</b>	SE MEASURES	5
<b>Personal Precautions:</b> Keep public away. Isolate and evacuate area. Shut off source if safe to do so. Eliminate all ignition sources. All contaminated surfaces will be slippery.				
Protective Equipment:	Use	personal protection measure	s as recommended in Se	ction 8.
Emergency Procedures	<b>Emergency Procedures:</b> Advise authorities and National Response Center (800-424-8802) if the product has entered a water course or sewer. Notify local health and pollution control agencies, if appropriate.			
<b>Environmental precautions:</b> Avoid release to the environment. Avoid subsoil penetration.				
Methods and materials for       Contain liquid with sand or soil.         containment:       Contain liquid with sand or soil.				
Methods and materials up:	liqui		roduct to proper containe	d, or clay to clean up residual ers. When recovering free liquids on-sparking tools.

# 7. HANDLING AND STORAGE

Safe Handling Precautions:	NEVER SIPHON THIS PRODUCT BY MOUTH. Use appropriate grounding and bonding practices. Static accumulating flammable liquid. Bonding and grounding may be insufficient to eliminate the hazard from static electricity. Do not expose to heat, open flames, strong oxidizers or other sources of ignition. No smoking. Avoid repeated and prolonged skin contact. Use personal protection measures as recommended in Section 8. Use only non-sparking tools. Do not cut, drill, grind or weld on empty containers since explosive residues may remain. Refer to applicable EPA, OSHA, NFPA and consistent state and local requirements.
	Hydrocarbons are basically non-conductors of electricity and can become electrostatically charged during mixing, filtering, pumping at high flow rates or loading and transfer operations. If this charge reaches a sufficiently high level, sparks can form that may ignite the vapors of flammable liquids. Sudden release of hot organic chemical vapors or mists from process equipment operating under elevated temperature and pressure, or sudden ingress of air into vacuum equipment may result in ignition of vapors or mists without the presence of obvious ignition sources. Nozzle spouts must be kept in contact with the containers or tank during the entire filling operation.
	Portable containers should never be filled while in or on a motor vehicle or marine craft. Containers should be placed on the ground. Static electric discharge can ignite fuel vapors when filling non-grounded containers or vehicles on trailers. The nozzle spout must be kept in contact with the container before and during the entire filling operation. Use only approved containers.
	A buildup of static electricity can occur upon re-entry into a vehicle during fueling especially in cold or dry climate conditions. The charge is generated by the action of dissimilar fabrics (i.e., clothing and upholstery) rubbing across each other as a person enters/exits the vehicle. A flash fire can result from this discharge if sufficient flammable vapors are present. Therefore, do not get back in your vehicle while refueling.
	Cellular phones and other electronic devices may have the potential to emit electrical charges (sparks). Sparks in potentially explosive atmospheres (including fueling areas such as gas stations) could cause an explosion if sufficient flammable vapors are present. Therefore, turn off cellular phones and other electronic devices when working in potentially explosive atmospheres or keep devices inside your vehicle during refueling.
	High-pressure injection of any material through the skin is a serious medical emergency even though the small entrance wound at the injection site may not initially appear serious. These injection injuries can occur from high-pressure equipment such as paint spray or grease or guns, fuel injectors, or pinhole leaks in hoses or hydraulic lines and should all be considered serious. High pressure injection injuries may be SERIOUS SURGICAL EMERGENCIES (See First Aid Section 4).
Storage Conditions:	Store in properly closed containers that are appropriately labeled and in a cool, well-ventilated area.

Incompatible materials

Strong oxidizing agents.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	ACGIH TLV	OSHA PELS:	OSHA - Vacated PELs	NIOSH IDLH
No. 2 Diesel Fuel 68476-34-6	100 mg/m <sup>3</sup> TWA Skin - potential significant contribution to overall exposure by the cutaneous route	-	-	-
Kerosine, Petroleum 8008-20-6	200 mg/m <sup>3</sup> TWA Skin - potential significant contribution to overall exposure by the cutaneous route	-	-	-

Fuels, Diesel, C9-18-Alkane	-	-	-	-
Branched and Linear 1159170-26-9				
Alkanes, C10-C20 branched and linear	-	-	-	-
928771-01-1				
	10 ppm TWA	TWA: 10 ppm	10 ppm TWA	250 ppm
Naphthalene 91-20-3	Skin - potential significant	TWA: 50 mg/m <sup>3</sup>	50 mg/m <sup>3</sup> TWA	250 ppm
91-20-3	contribution to overall	TWA. 30 Mg/m	15 ppm STEL	
	exposure by the cutaneous		75 mg/m <sup>3</sup> STEL	
	route			
Notes:	The manufacturer	has voluntarily elected to	o provide exposure limits	contained in OSHA's
	1989 air contamina	ants standard in its SDS	s, even though certain of	those exposure limits
	were vacated in 19	992.		
Engineering measures:	sures: Local or general exhaust required in an enclosed area or with inadequate ventilation. Use			
	mechanical ventilation equipment that is explosion-proof.			
Personal protective equipment				
Eye protection:	Use goggles or face-shield if the potential for splashing exists.			
Skin and body protection:	Wear neoprene, nitrile or PVA gloves to prevent skin contact. Glove suitability is based on			
ekin and bedy preteotion.	workplace conditions and usage. Contact the glove manufacturer for specific advice on			
	glove selection and breakthrough times.			
	g · · · · · · · · · · · · · · · · · ·			
Respiratory protection: Use an approved organic vapor chemical cartridge or supplied air respirators when material				
	produces vapors that exceed permissible exposure limits or excessive vapors are			
generated. Observe respirator assigned protection factors (APFs) criteria cited in federal				
	OSHA 29 CFR 1910.134. Self-contained breathing apparatus should be used for fire			
	fighting.			
Hygiene measures:	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with			
	skin, eyes and clothing.			

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties		
Physical State	Liquid	
Appearance	Clear or Amber Liquid	
Color	Clear or Amber	
Odor	Slight Hydrocarbon	
Odor Threshold	No available data.	
Property	Values (Method)	
Melting Point / Freezing Point	No available data.	
Initial Boiling Point / Boiling Range	204-338 °C / 400-640 °F	
Flash Point	54-88 °C / 130-190 °F	
Evaporation Rate	No available data.	
Flammability (solid, gas)	Not applicable.	
Flammability Limit in Air (%)		
Upper Flammability Limit:	5.0	
Lower Flammability Limit:	0.7	
Vapor Pressure	1-10 mm Hg @ 20°C	
Vapor Density	4-5	
Specific Gravity / Relative Density	C.A. 0.8	
Water Solubility	No available data.	
Solubility in other solvents	Negligible	
Partition Coefficient	No available data.	
Decomposition temperature:	No available data.	
pH:	Not applicable	

Autoignition Temperature	25
Kinematic Viscosity	1.9
Dynamic Viscosity	No
Explosive Properties	No
Softening Point	No
VOC Content (%)	10
Density	6.7
Bulk Density	No

254 °C / 489 °F 1.9-3.4 @ 40°C No available data. No available data. No available data. 10% 6.76 lbs/gal Not applicable.

# **10. STABILITY AND REACTIVITY**

Reactivity	The product is non-reactive under normal conditions.
Chemical stability	The material is stable at 70°F, 760 mmHg pressure.
Possibility of hazardous reactions	None under normal processing.
Hazardous polymerization	Will not occur.
Conditions to avoid	Excessive heat, sources of ignition, open flame.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	None known under normal conditions of use.

# **11. TOXICOLOGICAL INFORMATION**

### Potential short-term adverse effects from overexposures

Inhalation	Harmful if inhaled. Inhalation of high vapor concentrations may cause irritation of the respiratory system. May cause drowsiness or dizziness.
Eye contact	Causes mild eye irritation.
Skin contact	Irritating to skin. Effects may become more serious with repeated or prolonged contact. May be absorbed through the skin in harmful amounts.
Ingestion	May be fatal if swallowed or vomited and enters airways. May cause irritation of the mouth, throat and gastrointestinal tract.

### Acute Toxicological data

Name	Oral LD50	Dermal LD50	Inhalation LC50
No. 2 Diesel Fuel 68476-34-6	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	>1 - <5 mg/L (Rat) 4 h
Kerosine, Petroleum 8008-20-6	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 5.28 mg/L (Rat) 4 h
Fuels, Diesel, C9-18-Alkane Branched and Linear 1159170-26-9	-	-	>1 - <5 mg/l (Rat) 4 h
Alkanes, C10-C20 branched and linear 928771-01-1	-	-	>1 - <5 mg/l (Rat) 4 h
Naphthalene 91-20-3	490 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 340 mg/m³ (Rat) 1 h

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Altered mental state, drowsiness, peripheral motor neuropathy, irreversible brain damage (so-called Petrol Sniffer's Encephalopathy), delirium, seizures, and sudden death have been reported from repeated overexposure to some hydrocarbon solvents, naphthas, and gasoline.

MIDDLE DISTILLATES, PETROLEUM: Long-term repeated (lifetime) skin exposure to similar materials has been reported to result in an increase in skin tumors in laboratory rodents. The relevance of these findings to humans is not clear at this time.

MIDDLE DISTILLATES WITH CRACKED STOCKS: Light cracked distillates have been shown to be carcinogenic in animal tests and have tested positive with in vitro genotoxicity tests. Repeated dermal exposures to high concentrations in test animals resulted in reduced litter size and litter weight, and increased fetal resorptions at maternally toxic doses. Dermal exposure to high concentrations resulted in severe skin irritation with weight loss and some mortality. Inhalation exposure to high concentrations resulted in respiratory tract irritation, lung changes/infiltration/accumulation, and reduction in lung function.

ISOPARAFFINS: Studies in laboratory animals have shown that long-term exposure to similar materials (isoparaffins) can cause kidney damage and kidney cancer in male laboratory rats. However, in-depth research indicates that these findings are unique to the male rat, and that these effects are not relevant to humans.

NAPHTHALENE: Severe jaundice, neurotoxicity (kernicterus) and fatalities have been reported in young children and infants as a result of hemolytic anemia from overexposure to naphthalene. Persons with glucose 6-phosphate dehydrogenase (G6PD) deficiency are more prone to the hemolytic effects of naphthalene. Adverse effects on the kidney have been reported in persons overexposed to naphthalene but these effects are believed to be a consequence of hemolytic anemia, and not a direct effect. Hemolytic anemia has been observed in laboratory animals exposed to naphthalene. Laboratory rodents exposed to naphthalene vapor for 2 years (lifetime studies) developed non-neoplastic and neoplastic tumors and inflammatory lesions of the nasal and respiratory tract. Cataracts and other adverse effects on the eye have been observed in laboratory animals exposed to high levels of naphthalene. Findings from a large number of bacterial and mammalian cell mutation assays have been negative. A few studies have shown chromosomal effects (elevated levels of Sister Chromatid Exchange or chromosomal aberrations) in vitro. Naphthalene has been classified as Possibly Carcinogenic to Humans (2B) by IARC, based on findings from studies in laboratory animals.

DIESEL EXHAUST: The combustion of diesel fuels produces gases including carbon monoxide, carbon dioxide, oxides of nitrogen and/or sulfur, and hydrocarbons that can be irritating and hazardous with overexposure. Long-term occupational overexposure to diesel exhaust and diesel exhaust particulate matter has been associated with an increased risk of respiratory disease, including lung cancer, and is characterized as a "known human carcinogen" by the International Agency for Research on Cancer (IARC), as "a reasonably anticipated human carcinogen" by the National Toxicology Program, and as "likely to be carcinogenic to humans" by the EPA, based upon animal and occupational exposure studies. However, uncertainty exists with these classifications because of deficiencies in the supporting occupational exposure/epidemiology studies, including reliable exposure estimates. Lifetime animal inhalation studies with pulmonary overloading exposure concentrations of diesel exhaust emissions have produced tumors and other adverse health effects. However, in more recent long-term animal inhalation studies of diesel exhaust emissions, no increase in tumor incidence and in fact a substantial reduction in adverse health effects along with significant reductions in the levels of hazardous material emissions were observed and are associated with fuel composition alterations coupled with new technology diesel engines.

### Adverse effects related to the physical, chemical and toxicological characteristics

Signs & Symptoms

Nausea, vomiting, signs of nervous system depression: headache, drowsiness, dizziness, loss of coordination, disorientation and fatigue.

Not Listed

### Sensitization

Not expected to be a skin or respiratory sensitizer.

**Mutagenic effects** 

Name	ACGIH (Class)	IARC (Class)	NTP	OSHA
No. 2 Diesel Fuel 68476-34-6	Confirmed animal carcinogen (A3)	Not Classifiable (3)	Not Listed	Not Listed
Kerosine, Petroleum 8008-20-6	Confirmed animal carcinogen (A3)	Not Classifiable (3)	Not Listed	Not Listed
Fuels, Diesel, C9-18-Alkane Branched and Linear 1159170-26-9	Not Listed	Not Listed	Not Listed	Not Listed
Alkanes, C10-C20 branched and linear 928771-01-1	Not Listed	Not Listed	Not Listed	Not Listed

Possible human carcinogen

(2B)

**Reproductive toxicity** 

Naphthalene

. 91-20-3

None known.

Confirmed animal

carcinogen (A3)

None known.

Specific Target Organ Toxicity (STOT) - single exposure

Thymus. Liver. Bone marrow.

Central nervous system.

Specific Target Organ Toxicity (STOT) - repeated exposure

Aspiration hazard

May be fatal if swallowed or vomited and enters airways.

### **12. ECOLOGICAL INFORMATION**

### **Ecotoxicity**

This product should be considered toxic to aquatic organisms, with the potential to cause long lasting adverse effects in the aquatic environment.

Reasonably anticipated to

be a human carcinogen

Name	Algae/aquatic plants	Fish	Toxicity to Microorganisms	Crustacea
No. 2 Diesel Fuel 68476-34-6	-	96-hr LC50 = 35 mg/l Fathead minnow (flow-through)	-	48-hr EL50 = 6.4 mg/l Daphnia magna
Kerosine, Petroleum 8008-20-6	72-hr EL50 = 5.0-11 mg/l Algae	96-hr LL50 = 18-25 mg/l Fish	-	48-hr EL50 = 1.4-21 mg/l Invertebrates
Fuels, Diesel, C9-18-Alkane Branched and Linear 1159170-26-9	-	-	-	-
Alkanes, C10-C20 branched and linear 928771-01-1	-	-	-	-
Naphthalene 91-20-3	-	96-hr LC50 = 0.91-2.82 mg/l Rainbow trout (static) 96-hr LC50 = 1.99 mg/l Fathead minnow (static)	-	48-hr LC50 = 1.6 mg/l Daphnia magna

Persistence and degradabilityExpected to be inherently biodegradable.BioaccummulationHas the potential to bioaccumulate.Mobility in soilMay partition into air, soil and water.

Other adverse effects

**13. DISPOSAL CONSIDERATIONS** 

No information available.

### **Description of Waste Residues**

This material may be a flammable liquid waste.

### Safe Handling of Wastes

Handle in accordance with applicable local, state, and federal regulations. Use personal protection measures as required. Use appropriate grounding and bonding practices. Use only non-sparking tools. Do not expose to heat, open flames, strong oxidizers or other sources of ignition. No smoking.

### **Disposal of Wastes / Methods of Disposal**

The user is responsible for determining if any discarded material is a hazardous waste (40 CFR 262.11). Dispose of in accordance with federal, state and local regulations.

### **Methods of Contaminated Packaging Disposal**

Empty containers should be completely drained and then discarded or recycled, if possible. Do not cut, drill, grind or weld on empty containers since explosive residues may be present. Dispose of in accordance with federal, state and local regulations.

	14. TRANSPORT INFORMATION
DOT (49 CFR 172.101): UN Proper shipping name: UN/Identification No: Transport Hazard Class(es): Packing group:	Fuel Oil, No. 2 NA 1993 3 III
TDG (Canada): UN Proper shipping name: UN/Identification No: Transport Hazard Class(es): Packing group:	Fuel Oil, No. 2 NA 1993 3 III

**15. REGULATORY INFORMATION** 

### **US Federal Regulatory Information:**

US TSCA Chemical Inventory Section 8(b):

This product and/or its components are listed on the TSCA Chemical Inventory.

### EPA Superfund Amendment & Reauthorization Act (SARA):

SARA Section 302:

This product does not contain any component(s) included on EPA's Extremely Hazardous Substance (EHS) List.

Name	CERCLA/SARA - Section 302 Extremely Hazardous Substances and TPQs
No. 2 Diesel Fuel	NA
Kerosine, Petroleum	NA
Fuels, Diesel, C9-18-Alkane Branched and Linear	NA
Alkanes, C10-C20 branched and linear	NA
Naphthalene	NA

### SARA Section 304:

This product may contain component(s) identified either as an EHS or a CERCLA Hazardous substance which in case of a spill or release may be subject to SARA reporting requiremente:

Name	CERCLA/SARA - Hazardous Substances and their Reportable Quantities
No. 2 Diesel Fuel	NA
Kerosine, Petroleum	NA
Fuels, Diesel, C9-18-Alkane Branched and Linear	NA
Alkanes, C10-C20 branched and linear	NA

Naphthalene	100 lb final RQ
	45.4 kg final RQ

SARA:

The following EPA hazard categories apply to this product:

Acute Health Hazard Fire Hazard Chronic Health Hazard

SARA Section 313:

This product may contain component(s), which if in exceedance of the de minimus threshold, may be subject to the reporting requirements of SARA Title III Section 313 Toxic Release Reporting (Form R).

Name	CERCLA/SARA 313 Emission reporting:	
No. 2 Diesel Fuel	None	
Kerosine, Petroleum	None	
Fuels, Diesel, C9-18-Alkane Branched and Linear	None	
Alkanes, C10-C20 branched and linear	None	
Naphthalene	0.1 % de minimis concentration	

### State and Community Right-To-Know Regulations:

The following component(s) of this material are identified on the regulatory lists below:

No. 2 Diesel Fue	el	
Louisiana R	ight-To-Know:	Not Listed.
	roposition 65:	Not Listed.
	Right-To-Know:	SN 2444
	ia Right-To-Know:	Not Listed.
	etts Right-To Know:	Not Listed.
Florida Subs		Not Listed.
Rhode Islan	d Right-To-Know:	Not Listed.
	itical Materials Register List:	Not Listed.
	etts Extraordinarily Hazardous Substances:	Not Listed.
	Regulated Carcinogens:	Not Listed.
	ia RTK - Special Hazardous	Not Listed.
Substances		
New Jersey	- Special Hazardous Substances:	Not Listed.
	- Environmental Hazardous	SN 2444 TPQ: 10000 lb (Under N.J.A.C. 7:1G, environmental
Substances	List:	hazardous substances in mixtures such as gasoline or new and
		used petroleum oil may be reported under these categories)
Illinois - Tox	ic Air Contaminants	Not Listed.
New York -	Reporting of Releases Part 597 -	Not Listed.
List of Haza	rdous Substances:	
Kerosine, Petrol	leum	
	ight-To-Know:	Not Listed.
California Pr	roposition 65:	Not Listed.
New Jersey	Right-To-Know:	SN 1091
	ia Right-To-Know:	Present
	etts Right-To Know:	Present
Florida Subs		Not Listed.
	d Right-To-Know:	Not Listed.
•	itical Materials Register List:	Not Listed.
	etts Extraordinarily Hazardous Substances:	Not Listed.
	Regulated Carcinogens:	Not Listed.
	ia RTK - Special Hazardous	Not Listed.
Substances		
	<ul> <li>Special Hazardous Substances:</li> </ul>	Not Listed.
	- Environmental Hazardous	SN 1091 TPQ: 10000 lb (Under N.J.A.C. 7:1G, environmental
Substances	List:	hazardous substances in mixtures such as gasoline or new and
		used petroleum oil may be reported under these categories)
Illinois - Tox	ic Air Contaminants	Not Listed.

New York - Reporting of Releases Part 597 -	Not Listed.
List of Hazardous Substances:	
Fuels, Diesel, C9-18-Alkane Branched and Linear	
Louisiana Right-To-Know:	Not Listed.
California Proposition 65:	Not Listed.
New Jersey Right-To-Know:	Not Listed.
Pennsylvania Right-To-Know:	Not Listed.
Massachusetts Right-To Know:	Not Listed.
Florida Substance List:	Not Listed.
Rhode Island Right-To-Know:	Not Listed.
Michigan Critical Materials Register List:	Not Listed.
Massachusetts Extraordinarily Hazardous Substances:	Not Listed.
California - Regulated Carcinogens:	Not Listed.
Pennsylvania RTK - Special Hazardous	Not Listed.
Substances:	
New Jersey - Special Hazardous Substances:	Not Listed.
New Jersey - Environmental Hazardous	Not Listed.
Substances List:	
Illinois - Toxic Air Contaminants	Not Listed.
New York - Reporting of Releases Part 597 -	Not Listed.
List of Hazardous Substances:	
Alkanes, C10-C20 branched and linear	
Louisiana Right-To-Know:	Not Listed.
California Proposition 65:	Not Listed.
New Jersey Right-To-Know:	Not Listed.
Pennsylvania Right-To-Know:	Not Listed.
Massachusetts Right-To Know:	Not Listed.
Florida Substance List:	Not Listed.
Rhode Island Right-To-Know:	Not Listed.
Michigan Critical Materials Register List:	Not Listed.
Massachusetts Extraordinarily Hazardous Substances:	Not Listed.
California - Regulated Carcinogens:	Not Listed.
Pennsylvania RTK - Special Hazardous	Not Listed.
Substances:	Not Elotou.
New Jersey - Special Hazardous Substances:	Not Listed.
New Jersey - Environmental Hazardous	Not Listed.
Substances List:	Not Elsted.
Illinois - Toxic Air Contaminants	Not Listed.
New York - Reporting of Releases Part 597 -	Not Listed.
List of Hazardous Substances:	Not Listed.
Naphthalene	
Louisiana Right-To-Know:	Not Listed.
California Proposition 65:	Carcinogen, initial date 4/19/02
New Jersey Right-To-Know:	SN 1322 SN 3758
Pennsylvania Right-To-Know:	Environmental hazard Present (particulate)
Massachusetts Right-To Know:	Present
Florida Substance List:	Not Listed.
Rhode Island Right-To-Know:	Toxic; Flammable
Michigan Critical Materials Register List:	Not Listed.
Massachusetts Extraordinarily Hazardous Substances:	Not Listed.
California - Regulated Carcinogens:	Not Listed.
Pennsylvania RTK - Special Hazardous	Not Listed.
Substances:	NOT LISTED.
New Jersey - Special Hazardous Substances:	Carcinogen
New Jersey - Environmental Hazardous Substances List:	SN 1322 TPQ: 500 lb (Reportable at the de minimis quantity of >0.1%)
Illinois - Toxic Air Contaminants	Present
New York - Reporting of Releases Part 597 -	100 lb RQ (air); 1 lb RQ (land/water)
List of Hazardous Substances:	

This product contains the following component(s) that are listed on the Non-Domestic Substance List (NDSL): CAS# 1159170-26-9

Canadian Regulatory Information:

"This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the (M)SDS contains all the information required by the Controlled Products Regulations."

Name	Canada - WHMIS: Classifications of Substances:	Canada - WHMIS: Ingredient Disclosure:
No. 2 Diesel Fuel	B3,D2A,D2B	0.1%
Kerosine, Petroleum	B3,D2B	1%
Fuels, Diesel, C9-18-Alkane Branched and Linear	B3,D2A,D2B	0.1%
Alkanes, C10-C20 branched and linear	B3,D2A,D2B	0.1%
Naphthalene	B4,D2A	0.1%



NOTE:

Not Applicable.

# **16. OTHER INFORMATION**

Prepared By Revision Date: Toxicology and Product Safety 05/18/2015

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Revision Note: 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 is intended as guidance for safe handling, use, processing, storage, transportation, accidental release, clean-up and disposal and is not 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.



# SAFETY DATA SHEET

SDS ID NO.: Revision Date: 0110SPE012 05/18/2015

**1. IDENTIFICATION** 

Product Name:	Speedway Regular Unleaded Gasoline With Ethanol	
Synonym: Chemical Family:	Regular Unleaded Gasoline With Alcohol Complex Hydrocarbon Substance	
Recommended Use: Use Restrictions:	Fuel. All others.	
Supplier Name and Address: Speedway LLC P.O. Box 1500 Enon, OH 45501		
SDS information:	1-419-421-3070	
Emergency Telephone:	1-877-627-5463	
2. HAZARD IDENTIFICATION		

### **Classification**

### **OSHA Regulatory Status**

This chemical is considered hazardous according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids	Category 1
Skin corrosion/irritation	Category 2
Germ cell mutagenicity	Category 1B
Carcinogenicity	Category 1B
Reproductive toxicity	Category 2
Specific target organ toxicity (single exposure)	Category 3
Aspiration toxicity	Category 1
Acute aquatic toxicity	Category 2
Chronic aquatic toxicity	Category 2

### Hazards Not Otherwise Classified (HNOC)

Static accumulating flammable liquid

### Label elements

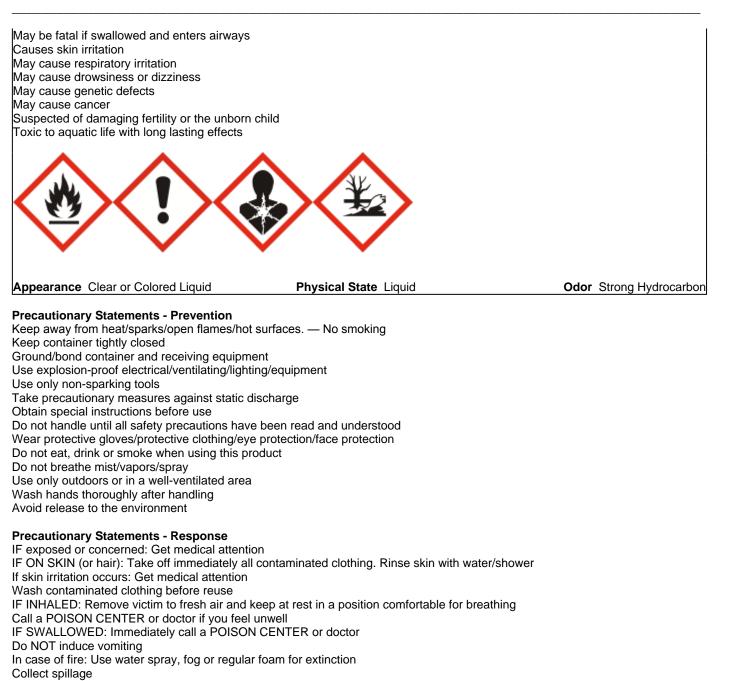
### **EMERGENCY OVERVIEW**

### Danger

EXTREMELY FLAMMABLE LIQUID AND VAPOR

May accumulate electrostatic charge and ignite or explode

# 0110SPE012 Speedway Regular Unleaded Gasoline With Ethanol



### Precautionary Statements - Storage

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

**Precautionary Statements - Disposal** Dispose of contents/container at an approved waste disposal plant

**3. COMPOSITION/INFORMATION ON INGREDIENTS** 

Gasoline is a complex combination of hydrocarbons consisting of paraffins, cycloparaffins, aromatic and olefinic hydrocarbons having molecular chains ranging in length from four to ten carbons. May contain small amounts of dye and other additives (>0.02%) which are not considered hazardous at the concentrations used.

### **Composition Information:**

Name	CAS Number	Weight %
Gasoline	86290-81-5	100
Toluene	108-88-3	0.9-13.5
Ethyl Alcohol	64-17-5	5.7-10
Xylene (mixed isomers)	1330-20-7	1.8-9
1,2,4 Trimethylbenzene	95-63-6	0.9-4.5
Benzene	71-43-2	0.45-3.2
n-Hexane	110-54-3	0-2.7
Ethylbenzene	100-41-4	0.45-1.8
Naphthalene	91-20-3	0.1-0.5

# 4. FIRST AID MEASURES

First Aid Measures	
General advice	In case of accident or if you feel unwell, seek medical advice immediately (show directions for use or safety data sheet if possible).
Inhalation:	Remove to fresh air. If not breathing, institute rescue breathing. If breathing is difficult, ensure airway is clear, give oxygen and continue to monitor. If heart has stopped, immediately begin cardiopulmonary resuscitation (CPR). Keep affected person warm and at rest. GET IMMEDIATE MEDICAL ATTENTION.
Skin Contact:	Immediately wash exposed skin with plenty of soap and water while removing contaminated clothing and shoes. May be absorbed through the skin in harmful amounts. Get medical attention if irritation persists. Any injection injury from high pressure equipment should be evaluated immediately by a physician as potentially serious (See NOTES TO PHYSICIAN).
	Place contaminated clothing in closed container until cleaned or discarded. If clothing is to be laundered, inform the person performing the operation of contaminant's hazardous properties. Destroy contaminated, non-chemical resistant footwear.
Eye Contact:	Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Gently remove contacts while flushing. Get medical attention if irritation persists.
Ingestion:	Do not induce vomiting because of danger of aspirating liquid into lungs, causing serious damage and chemical pneumonitis. If spontaneous vomiting occurs, keep head below hips, or if patient is lying down, turn body and head to side to prevent aspiration and monitor for breathing difficulty. Never give anything by mouth to an unconscious person. Keep affected person warm and at rest. GET IMMEDIATE MEDICAL ATTENTION.
Most important signs and sympton	ns, both short-term and delayed with overexposure
Adverse Effects:	Acute: Headache, drowsiness, dizziness, loss of coordination, disorientation and fatigue. Delayed: Dry skin and possible irritation with repeated or prolonged exposure.
Indication of any immediate medic	al attention and special treatment needed

NOTES TO PHYSICIAN:	INHALATION: This material (or a component) sensitizes the myocardium to the effects of sympathomimetic amines. Epinephrine and other sympathomimetic drugs may initiate cardiac arrhythmias in individuals exposed to this material. Administration of sympathomimetic drugs should be avoided.
	SKIN: Leaks or accidents involving high-pressure equipment may inject a stream of material through the skin and initially produce an injury that may not appear serious. Only a small puncture wound may appear on the skin surface but, without proper treatment and depending on the nature, original pressure, volume, and location of the injected material, can compromise blood supply to an affected body part. Prompt surgical debridement of the wound may be necessary to prevent irreversible loss of function and/or the affected body part. High pressure injection injuries may be SERIOUS SURGICAL EMERGENCIES.
	INGESTION: This material represents a significant aspiration and chemical pneumonitis hazard. Induction of emesis is not recommended.

# **5. FIRE-FIGHTING MEASURES**

### Suitable extinguishing media

For small fires, Class B fire extinguishing media such as CO2, dry chemical, foam (AFFF/ATC) or water spray can be used. For large fires, water spray, fog or foam (AFFF/ATC) can be used. Firefighting should be attempted only by those who are adequately trained and equipped with proper protective equipment.

### Unsuitable extinguishing media

Do not use straight water streams to avoid spreading fire.

### Specific hazards arising from the chemical

This product has been determined to be an extremely flammable liquid per the OSHA Hazard Communication Standard and should be handled accordingly. May accumulate electrostatic charge and ignite or explode. Vapors may travel along the ground or be moved by ventilation and ignited by many sources such as pilot lights, sparks, electric motors, static discharge, or other ignition sources at locations distant from material handling. Flashback can occur along vapor trail. For additional fire related information, see NFPA 30 or the North American Emergency Response Guide 128.

### Hazardous combustion products

Smoke, carbon monoxide, and other products of incomplete combustion.

### **Explosion data**

Sensitivity to Mechanical Impact No. Sensitivity to Static Discharge Yes.

### Special protective equipment and precautions for firefighters

Firefighters should wear full protective clothing and positive-pressure self-contained breathing apparatus (SCBA) with a full face-piece, as appropriate. Avoid using straight water streams. Water may be ineffective in extinguishing low flash point fires, but can be used to cool exposed surfaces. Avoid excessive water spray application. Water spray and foam (AFFF/ATC) must be applied carefully to avoid frothing and from as far a distance as possible. Keep run-off water out of sewers and water sources.

NFPA:	Health 1	Flammability 3	Instability 0	Special Hazards -
	<b>6.</b> /	ACCIDENTAL RELEAS	SE MEASURES	5
Personal Precautions:	Personal Precautions: Keep public away. Isolate and evacuate area. Shut off source if safe to do so. Eliminate a ignition sources.			
Protective Equipment:		Use personal protection measures	as recommended in Se	ection 8.
Emergency Procedures	<b>hergency Procedures:</b> Advise authorities and National Response Center (800-424-8802) if the product has entered a water course or sewer. Notify local health and pollution control agencies, if appropriate.			

Environmental precautions:	Ethanol in gasoline phase seperates in contact with water. Monitor downstream for dissolved ethanol or other appropriate indicators. Avoid release to the environment. Avoid subsoil penetration.
Methods and materials for containment:	Contain liquid with sand or soil.
Methods and materials for cleaning up:	Use suitable absorbent materials such as vermiculite, sand, or clay to clean up residual liquids. Recover and return free product to proper containers. When recovering free liquids ensure all equipment is grounded and bonded. Use only non-sparking tools.

# 7. HANDLING AND STORAGE

Safe Handling Precautions:	NEVER SIPHON THIS PRODUCT BY MOUTH. Use appropriate grounding and bonding practices. Static accumulating flammable liquid. Bonding and grounding may be insufficient to eliminate the hazard from static electricity. Do not expose to heat, open flames, strong oxidizers or other sources of ignition. No smoking. Avoid repeated and prolonged skin contact. Use personal protection measures as recommended in Section 8. Use only non-sparking tools. Do not cut, drill, grind or weld on empty containers since explosive residues may remain. Refer to applicable EPA, OSHA, NFPA and consistent state and local requirements.
	Hydrocarbons are basically non-conductors of electricity and can become electrostatically charged during mixing, filtering, pumping at high flow rates or loading and transfer operations. If this charge reaches a sufficiently high level, sparks can form that may ignite the vapors of flammable liquids. Sudden release of hot organic chemical vapors or mists from process equipment operating under elevated temperature and pressure, or sudden ingress of air into vacuum equipment may result in ignition of vapors or mists without the presence of obvious ignition sources. Nozzle spouts must be kept in contact with the containers or tank during the entire filling operation.
	Portable containers should never be filled while in or on a motor vehicle or marine craft. Containers should be placed on the ground. Static electric discharge can ignite fuel vapors when filling non-grounded containers or vehicles on trailers. The nozzle spout must be kept in contact with the container before and during the entire filling operation. Use only approved containers.
	A buildup of static electricity can occur upon re-entry into a vehicle during fueling especially in cold or dry climate conditions. The charge is generated by the action of dissimilar fabrics (i.e., clothing and upholstery) rubbing across each other as a person enters/exits the vehicle. A flash fire can result from this discharge if sufficient flammable vapors are present. Therefore, do not get back in your vehicle while refueling.
	Cellular phones and other electronic devices may have the potential to emit electrical charges (sparks). Sparks in potentially explosive atmospheres (including fueling areas such as gas stations) could cause an explosion if sufficient flammable vapors are present. Therefore, turn off cellular phones and other electronic devices when working in potentially explosive atmospheres or keep devices inside your vehicle during refueling.
	High-pressure injection of any material through the skin is a serious medical emergency even though the small entrance wound at the injection site may not initially appear serious. These injection injuries can occur from high-pressure equipment such as paint spray or grease or guns, fuel injectors, or pinhole leaks in hoses or hydraulic lines and should all be considered serious. High pressure injection injuries may be SERIOUS SURGICAL EMERGENCIES (See First Aid Section 4).
Storage Conditions:	Store in properly closed containers that are appropriately labeled and in a cool, well-ventilated area.
Incompatible materials	Strong oxidizing agents.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	ACGIH TLV	OSHA PELS:	<b>OSHA - Vacated PELs</b>	NIOSH IDLH
Gasoline 86290-81-5	300 ppm TWA 500 ppm STEL	-	300 ppm TWA 900 mg/m³ TWA 500 ppm STEL 1500 mg/m³ STEL	-
Toluene 108-88-3	20 ppm TWA	TWA: 200 ppm Ceiling: 300 ppm	100 ppm TWA 375 mg/m³ TWA 150 ppm STEL 560 mg/m³ STEL	500 ppm
Ethyl Alcohol 64-17-5	1000 ppm STEL	TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup>	1000 ppm TWA 1900 mg/m³ TWA	3300 ppm
Xylene (mixed isomers) 1330-20-7	100 ppm TWA 150 ppm STEL	TWA: 100 ppm TWA: 435 mg/m <sup>3</sup>	100 ppm TWA 435 mg/m³ TWA 150 ppm STEL 655 mg/m³ STEL	900 ppm
1,2,4 Trimethylbenzene 95-63-6	25 ppm TWA	-	25 ppm TWA 125 mg/m³ TWA	-
Benzene 71-43-2	0.5 ppm TWA 2.5 ppm STEL Skin - potential significant contribution to overall exposure by the cutaneous route	TWA: 10 ppm (applies to industry segments exempt from the benzene standard at 29 CFR 1910.1028) TWA: 1 ppm STEL: 5 ppm (see 29 CFR 1910.1028)	25 ppm Ceiling 1 ppm TWA 5 ppm STEL	500 ppm
n-Hexane 110-54-3	50 ppm TWA Skin - potential significant contribution to overall exposure by the cutaneous route	TWA: 500 ppm TWA: 1800 mg/m³	50 ppm TWA 180 mg/m³ TWA	1100 ppm
Ethylbenzene 100-41-4	20 ppm TWA	TWA: 100 ppm TWA: 435 mg/m <sup>3</sup>	100 ppm TWA 435 mg/m³ TWA 125 ppm STEL 545 mg/m³ STEL	800 ppm
Naphthalene 91-20-3	10 ppm TWA Skin - potential significant contribution to overall exposure by the cutaneous route	TWA: 10 ppm TWA: 50 mg/m <sup>3</sup>	10 ppm TWA 50 mg/m³ TWA 15 ppm STEL 75 mg/m³ STEL	250 ppm
Notes:	The manufacturer has voluntarily elected to provide exposure limits contained in OSHA's 1989 air contaminants standard in its SDSs, even though certain of those exposure limits were vacated in 1992.			
Engineering measures:	ngineering measures: Local or general exhaust required in an enclosed area or when there is inadequate ventilation. Use mechanical ventilation equipment that is explosion-proof.			
Personal protective equipme	<u>nt</u>			
Eye protection:	Use goggles or fa	ce-shield if the potential f	or splashing exists.	
Skin and body protection:	Use nitrile rubber, viton or PVA gloves for repeated or prolonged skin exposure. Glove suitability is based on workplace conditions and usage. Contact the glove manufacturer for specific advice on glove selection and breakthrough times.			
Respiratory protection:	Approved organic vapor chemical cartridge or supplied air respirators should be worn for exposures to any components exceeding the established exposure limits. Observe respirator assigned protection factors (APFs) criteria cited in federal OSHA 29 CFR 1910.134. Self-contained breathing apparatus should be used for fire fighting.			

Hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

hemical properties Liquid Clear or Colored Liquid Clear or Colored Strong Hydrocarbon No available data.
Values (Method) No available data. 32-225 °C / 90-437 °F -45.5 °C / -50 °F No available data. Not applicable.
7.6 1.4 403-776 mm Hg@ 100°F
3-4 0.70-0.77 Negligible No available data. 2.13-4.5 No available data. Not applicable C.A. 257 °C / 495 °F No available data. No available data. No available data. No available data. No available data. 100% 5.9-6.3 lbs/gal Not applicable.

**10. STABILITY AND REACTIVITY** 

Reactivity	The product is non-reactive under normal conditions.
Chemical stability	The material is stable at 70°F, 760 mmHg pressure.
Possibility of hazardous reactions	None under normal processing.
Hazardous polymerization	Will not occur.
Conditions to avoid	Excessive heat, sources of ignition, open flame.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	None known under normal conditions of use.

# **11. TOXICOLOGICAL INFORMATION**

Potential short-term adverse effects from overexposures

Inhalation	Irritating to the respiratory system. May cause drowsiness or dizziness. Breathing high concentrations of this material in a confined space or by intentional abuse can cause irregular heartbeats which can cause death.
Eye contact	Causes mild eye irritation.
Skin contact	Causes skin irritation. Effects may become more serious with repeated or prolonged contact. May be absorbed through the skin in harmful amounts.
Ingestion	May be fatal if swallowed or vomited and enters airways. May cause irritation of the mouth, throat and gastrointestinal tract.

### Acute Toxicological data

Name	Oral LD50	Dermal LD50	Inhalation LC50
Gasoline 86290-81-5	14000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 5.2 mg/L (Rat) 4 h
Toluene 108-88-3	> 2000 mg/kg (Rat)	8390 mg/kg (Rabbit)	12.5 mg/L (Rat) 4 h
Ethyl Alcohol 64-17-5	> 5000 mg/kg (Rat)	-	124.7 mg/L (Rat) 4 h
Xylene (mixed isomers) 1330-20-7	> 2000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 5.04 mg/L (Rat) 4 h
1,2,4 Trimethylbenzene 95-63-6	3280 mg/kg (Rat)	> 3160 mg/kg (Rabbit)	18,000 mg/m³ (Rat) 4 h
Benzene 71-43-2	> 2000 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	> 20 mg/l (Rat) 4 h
n-Hexane 110-54-3	15000 mg/kg (Rat)	3000 mg/kg (Rabbit)	48000 ppm (Rat) 4 h
Ethylbenzene 100-41-4	> 2000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	17.2 mg/L (Rat) 4 h
Naphthalene 91-20-3	490 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 340 mg/m³ (Rat) 1 h

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Altered mental state, drowsiness, peripheral motor neuropathy, irreversible brain damage (so-called Petrol Sniffer's Encephalopathy), delirium, seizures, and sudden death have been reported from repeated overexposure to some hydrocarbon solvents, naphthas, and gasoline.

BENZENE: Studies of workers exposed to benzene show clear evidence that overexposure can cause cancer and other diseases of the blood forming organs including Acute Myelogenous Leukemia (AML), and Aplastic Anemia (AA), an often fatal disease. Some studies suggest overexposure to benzene may also be associated with Myelodysplastic Syndrome (MDS). Findings from a case control study of workers exposed to benzene was reported during the 2009 Benzene Symposium in Munich included an increase in Acute Myeloid Leukemias and Non-Hodgkins Lymphoid Neoplasms (NHLN) of the subtype follicular lymphoma (FL) in some occupational categories. Some studies of workers exposed to benzene have shown an association with increased rates of chromosome aberrations in circulating lymphocytes. One study of women workers exposed to benzene suggested a weak association with irregular menstruation. However, other studies of workers exposed to benzene have not demonstrated clear evidence of an effect on fertility or reproductive outcome in humans. Benzene can cross the placenta and affect the developing fetus. Cases of AA have been reported in the offspring of persons severely overexposed to benzene. Studies in laboratory animals indicate that prolonged, repeated exposure to high levels of benzene vapor can cause bone marrow suppression and cancer in multiple organ systems. Studies in laboratory animals show evidence of adverse effects on male reproductive organs following high levels of exposure but no significant effects on reproduction have been observed. Embryotoxicity has been reported in studies of laboratory animals but effects were limited to reduced fetal weight and minor skeletal variations. Benzene has been classified as a proven human carcinogen by OSHA and a Group 1 (Carcinogenic to Humans) material by IARC. The current proposed IARC classification for benzene is summarized as follows: Sufficient evidence for Acute Mveloid Leukemia; limited evidence for Acute Lymphatic Leukemia, Chronic Lymphatic Leukemia, Non-Hodgkin Lymphoma, and Multiple Myeloma.

NAPHTHAS: In a large epidemiological study on over 15,000 employees at several petroleum refineries and amongst residents located near these refineries, no increased risk of kidney cancer was observed in association with gasoline exposures (a similar material). In a similar study, no increased risk of kidney cancer was observed among petroleum refinery workers, but there was a slight trend in the incidence of kidney cancers among service station employees, especially after a 30-year latency period.

ISOPARAFFINS: Studies in laboratory animals have shown that long-term exposure to similar materials (isoparaffins) can cause kidney damage and kidney cancer in male laboratory rats. However, in-depth research indicates that these findings are unique to the male rat, and that these effects are not relevant to humans.

TOLUENE: Case studies of persons abusing toluene suggest isolated incidences of adverse effects on the fetus including birth defects. Abuse of toluene at high concentrations (e.g., glue sniffing and solvent abuse) has been associated with adverse effects on the liver, kidney and nervous system, and can cause CNS depression, cardiac arrhythmias, and death. Studies of workers indicate longterm exposure may be related to impaired color vision and hearing. Some studies of workers suggest longterm exposure may be related to neurobehavioral and cognitive changes. Some of these effects have been observed in laboratory animals following repeated exposure to high levels of toluene. Several studies of workers suggest longterm exposure may be related to small increases in spontaneous abortions and changes in some gonadotropic hormones. However, the weight of evidence does not indicate toluene is a reproductive hazard to humans. Studies in laboratory animals indicate some changes in reproductive organs following high levels of exposure, but no significant effects on mating performance or reproduction were observed. Case studies of persons abusing toluene suggest isolated incidences of adverse effects on the fetus including birth defects. Findings in laboratory animals have been largely negative. Positive findings include small increases in minor skeletal and visceral malformations and developmental delays following very high levels of maternal exposure. Studies of workers indicate long-term exposure may be related to effects on the liver, kidney and blood, but

these appear to be limited to changes in serum enzymes and decreased leukocyte counts. Adverse effects on the liver, kidney, thymus and nervous system were observed in animal studies following very high levels of exposure. The relevance of these findings to humans is not clear at this time.

ETHYLBENZENE: Findings from a 2-year inhalation study in rodents conducted by NTP were as follows: Effects were observed only at the highest exposure level (750 ppm). At this level the incidence of renal tumors was elevated in male rats (tubular carcinomas) and female rats (tubular adenomas). The incidence of tumors was also elevated in male mice (alveolar and bronchiolar carcinomas) and female mice (hepatocellular carcinomas). IARC has classified ethyl benzene as "possibly carcinogenic to humans" (Group 2B). Studies in laboratory animals indicate some evidence of post-implantation deaths following high levels of maternal exposure. The relevance of these findings to humans is not clear at this time. Studies in laboratory animals indicate limited evidence of renal malformations, resorptions, and developmental delays following high levels of maternal exposure with evidence of maternal toxicity. The relevance of these findings to humans is not clear at this time. Studies in laboratory animals have demonstrated evidence of ototoxicity (hearing loss) following exposure levels as low as 300 ppm for 5 days. Studies in laboratory animals indicate some effects on the liver, kidney, thyroid, and pituitary gland.

XYLENES, ALL ISOMERS: Overexposure to xylene may cause upper respiratory tract irritation, headache, cyanosis, blood serum changes, nervous system damage and narcosis. Effects may be increased by the use of alcoholic beverages. Evidence of liver and kidney impairment were reported in workers recovering from a gross overexposure. Effects from Prolonged or Repeated Exposure: Impaired neurological function was reported in workers exposed to solvents including xylene. Studies in laboratory animals have shown evidence of impaired hearing following high levels of exposure. Studies in laboratory animals suggest some changes in reproductive organs following high levels of exposure but no significant effects on reproduction were observed. Studies in laboratory animals indicate skeletal and visceral malformations, developmental delays, and increased fetal resorptions following extremely high levels of maternal exposure with evidence of maternal toxicity. The relevance of these observations to humans is not clear at this time. Adverse effects on the liver, kidney, bone marrow (changes in blood cell parameters) were observed in laboratory animals following high levels of exposure. The relevance of these observations to humans is not clear at this time.

C9 AROMATIC HYDROCARBONS: A developmental inhalation study was conducted in laboratory mice. Increased implantation losses, reduced fetal weights, delayed ossification and an increased incidence of cleft palate were observed at the highest exposure level (1,500 ppm). This exposure level was extremely toxic to pregnant female mice (44% mortality). Reduced fetal body weights were also observed at 500 ppm. A multi-generation reproduction inhalation study was conducted in laboratory rats. Reductions in pup weights, pup weight gain, litter size, and pup survival were observed at 1,500 ppm, an exposure level at which significant maternal toxicity was observed. Reduced pup weight gain was also observed at 500 ppm.

NAPHTHALENE: Severe jaundice, neurotoxicity (kernicterus) and fatalities have been reported in young children and infants as a result of hemolytic anemia from overexposure to naphthalene. Persons with glucose 6-phosphate dehydrogenase (G6PD) deficiency are more prone to the hemolytic effects of naphthalene. Adverse effects on the kidney have been reported in persons overexposed to naphthalene but these effects are believed to be a consequence of hemolytic anemia, and not a direct effect. Hemolytic anemia has been observed in laboratory animals exposed to naphthalene. Laboratory rodents exposed to naphthalene vapor for 2 years (lifetime studies) developed non-neoplastic and neoplastic tumors and inflammatory lesions of the nasal and respiratory tract. Cataracts and other adverse effects on the eye have been observed in laboratory animals exposed to high levels of naphthalene. Findings from a large number of bacterial and mammalian cell mutation assays have been negative. A few studies have shown chromosomal effects (elevated levels of Sister Chromatid Exchange or chromosomal aberrations) in vitro. Naphthalene has been classified as Possibly Carcinogenic to Humans (2B) by IARC, based on findings from studies in laboratory animals.

N-HEXANE: Long-term or repeated exposure to n-hexane can cause peripheral nerve damage. Initial symptoms are numbness of the fingers and toes. Also, motor weakness can occur in the digits, but may also involve muscles of the arms, thighs and forearms. The onset of these symptoms may be delayed for several months to a year after the beginning of exposure. Testicular atrophy and partial to full loss of the germ cell line were observed in sub-chronic high-dose inhalation studies of laboratory rodents. These effects appeared irreversible. Rodent reproduction studies have shown evidence of reduced fetal weight but no frank malformations.

PENTANES: Studies of pentane isomers in laboratory animals indicate exposure to extremely high levels (roughly 10 vol.%) may induce cardiac arrhythmias (irregular heartbeats) which may be serious or fatal.

ETHANOL: Repeated ingestion of ethanol can result in alcohol abuse, causing behavioral changes, memory loss, impaired judgement, decreased appetite, irregular heartbeats, and decreased fertility. Prolonged and repeated ingestion of ethanol has also been associated with cancers of the mouth, pharynx, esophagus and liver. Ethanol ingestion by pregnant women can cause miscarriage, low birth weight, premature birth and fetal alcohol syndrome. In males, acute and chronic alcohol ingestion may affect gonadal hormone levels. It may also affect the liver, kidney, brain, blood and cardiovascular system.

CARBON MONOXIDE: is a chemical asphyxiant with no warning properties (such as odor). At 400-500 ppm for 1 hour headache and dyspnea may occur. If activity is increased, symptoms of overexposure may include nausea, irritability, increased respiration, tinnitus, sweating, chest pain, confusion, impaired judgement, dizziness, weakness, drowsiness, ataxia, irregular heart beat, cyanosis and pallor. Levels in excess of 1000 ppm can result in collapse, loss of conciousness, respiratory failure and death. Extremely high concentrations (12,800 ppm) can cause immediate unconsciousness and death in 1-3 minutes. Repeated anoxia can lead to central nervous system damage and peripheral neuropathy, with loss of sensation in the fingers, amnesia, and mental deterioration and possible congestive heart failure. Damage may also occur to the fetus, lung, liver, kidney, spleen, cardiovascular system and other organs.

COMBUSTION ENGINE EXHAUST: Chronic inhalation studies of gasoline engine exhaust in mice, rats and hamsters did not produce any carcinogenic effects. Condensates/extracts of gasoline engine exhaust produced an increase in tumors compared to controls when testing by skin painting, subcutaneous injection, intratracheal instillation or implantation into the lungs.

#### Adverse effects related to the physical, chemical and toxicological characteristics

Signs & Symptoms	Nausea, vomiting, signs of nervous system depression: headache, drowsiness, dizziness, loss of coordination, disorientation and fatigue.

Sensitization Not expected to be a skin or respiratory sensitizer.

Mutagenic effects May cause genetic defects.

Carcinogenicity

Cancer designations are listed in the table below.

Name	ACGIH (Class)	IARC (Class)	NTP	OSHA
Gasoline 86290-81-5	Confirmed animal carcinogen (A3)	Possibly Carcinogenic (2B)	Not Listed	Not Listed
Toluene 108-88-3	Not Classifiable (A4)	Not Classifiable (3)	Not Listed	Not Listed
Ethyl Alcohol 64-17-5	Confirmed animal carcinogen (A3)	Carcinogenic (1) Alcoholic Beverages	Known to be human carcinogen - Alcoholic Beverage Consumption	Not Listed
Xylene (mixed isomers) 1330-20-7	Not Classifiable (A4)	Not Classifiable (3)	Not Listed	Not Listed

# 0110SPE012 Speedway Regular Unleaded Gasoline With Ethanol

1,2,4 Trimethylbenzene 95-63-6	Not Listed	Not Listed	Not Listed	Not Listed
Benzene 71-43-2	Confirmed human carcinogen (A1)	Carcinogenic to humans (1)	Known to be human carcinogen	Known carcinogen
n-Hexane 110-54-3	Not Listed	Not Listed	Not Listed	Not Listed
Ethylbenzene 100-41-4	Confirmed animal carcinogen (A3)	Possible human carcinogen (2B)	Not Listed	Not Listed
Naphthalene 91-20-3	Confirmed animal carcinogen (A3)	Possible human carcinogen (2B)	Reasonably anticipated to be a human carcinogen	Not Listed

Reproductive toxicity

Suspected of damaging fertility or the unborn child.

Specific Target Organ Toxicity (STOT) - single exposure Respiratory system. Central nervous system.

Specific Target Organ Toxicity (STOT) - repeated exposure

Not classified.

Aspiration hazard

May be fatal if swallowed or vomited and enters airways.

### **12. ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

This product should be considered toxic to aquatic organisms, with the potential to cause long lasting adverse effects in the aquatic environment.

Name	Algae/aquatic plants	Fish	Toxicity to Microorganisms	Crustacea
Gasoline	72-hr EC50 = 56 mg/l	96-hr LC50 = 11 mg/l	-	48-hr LC50 = 7.6 mg/l
86290-81-5	Algae	Rainbow trout (static)		Daphnia magna
Toluene	72-hr EC50 = 12.5 mg/l	96-hr LC50 <= 10 mg/l	-	48-hr EC50 = 5.46-9.83 mg/l
108-88-3	Algae	Rainbow trout		Daphnia magna
				48-hr EC50 = 11.5 mg/l
				Daphnia magna (Static)
Ethyl Alcohol	-	96-hr LC50 >1,000 mg/l	-	48-hr LC50 >1,000 mg/l
64-17-5		Rainbow Trout (static)		Daphnia magna
		96-hr LC50 >100 mg/l		
		Fathead minnow (static)		
Xylene (mixed isomers)	72-hr EC50 = 11 mg/l	96-hr LC50 = 8 mg/l	-	48-hr LC50 = 3.82 mg/l
1330-20-7	Algae	Rainbow trout		Daphnia magna
1,2,4 Trimethylbenzene	-	96-hr LC50 = 7.19-8.28 mg/l	-	48-hr EC50 = 6.14 mg/L
95-63-6		Fathead minnow		Daphnia magna
		(flow-through)		
Benzene	72-hr EC50 = 29 mg/l	96-hr LC50 = 5.3 mg/l	-	48-hr EC50 = 8.76-15.6 mg/l
71-43-2	Algae	Rainbow trout		Daphnia magna (Static)
		(flow-through)		
n-Hexane	-	96-hr LC50 = 2.5 mg/l	-	-
110-54-3		Fathead minnow		
Ethylbenzene	72-hr EC50 = 1.7-7.6 mg/l	96-hr LC50 = 4 mg/L	-	48-hr EC50 = 1-4 mg/L
100-41-4	Algae	Rainbow trout		Daphnia magna
Naphthalene	-	96-hr LC50 = 0.91-2.82 mg/l	-	48-hr LC50 = 1.6 mg/l
91-20-3		Rainbow trout (static)		Daphnia magna
		96-hr LC50 = 1.99 mg/l		
		Fathead minnow (static)		

<u>Persistence and degradability</u> Expected to be inherently biodegradable. The presence of ethanol in this product may impede the biodegradation of benzene, toluene, ethylbenzene and xylene in groundwater, resulting in elongated plumes of these constituents.

**Bioaccummulation** Has the potential to bioaccumulate.

Mobility in soil May partition into air, soil and water.

Other adverse effects No information available.

SDS ID NO.: 0110SPE012 Product name: Speedway Regular Unleaded Gasoline With Ethanol

### **13. DISPOSAL CONSIDERATIONS**

#### **Description of Waste Residues**

This material may be a flammable liquid waste.

#### Safe Handling of Wastes

Handle in accordance with applicable local, state, and federal regulations. Use personal protection measures as required. Use appropriate grounding and bonding practices. Use only non-sparking tools. Do not expose to heat, open flames, strong oxidizers or other sources of ignition. No smoking.

#### Disposal of Wastes / Methods of Disposal

The user is responsible for determining if any discarded material is a hazardous waste (40 CFR 262.11). Dispose of in accordance with federal, state and local regulations.

#### **Methods of Contaminated Packaging Disposal**

Empty containers should be completely drained and then discarded or recycled, if possible. Do not cut, drill, grind or weld on empty containers since explosive residues may be present. Dispose of in accordance with federal, state and local regulations.

### **14. TRANSPORT INFORMATION**

DOT (49 CFR 172.101):	
UN Proper shipping name:	Gasoline
UN/Identification No:	UN 1203
Transport Hazard Class(es):	3
Packing group:	II
TDG (Canada):	
UN Proper shipping name:	Gasoline
UN/Identification No:	UN 1203
Transport Hazard Class(es):	3
Packing group:	II

### **15. REGULATORY INFORMATION**

#### **US Federal Regulatory Information:**

US TSCA Chemical Inventory Section 8(b):

This product and/or its components are listed on the TSCA Chemical Inventory.

#### EPA Superfund Amendment & Reauthorization Act (SARA):

SARA Section 302:

This product does not contain any component(s) included on EPA's Extremely Hazardous Substance (EHS) List.

Name	CERCLA/SARA - Section 302 Extremely Hazardous Substances and TPQs
Gasoline	NA
Toluene	NA
Ethyl Alcohol	NA
Xylene (mixed isomers)	NA
1,2,4 Trimethylbenzene	NA
Benzene	NA
n-Hexane	NA
Ethylbenzene	NA
Naphthalene	NA

#### SARA Section 304:

This product may contain component(s) identified either as an EHS or a CERCLA Hazardous substance which in case of a spill or release may be subject to SARA reporting requirements:

Name	CERCLA/SARA - Hazardous Substances and their Reportable Quantities
Gasoline	NA
Toluene	1000 lb final RQ 454 kg final RQ
Ethyl Alcohol	NA
Xylene (mixed isomers)	100 lb final RQ 45.4 kg final RQ
1,2,4 Trimethylbenzene	NA
Benzene	10 lb final RQ 4.54 kg final RQ
n-Hexane	5000 lb final RQ 2270 kg final RQ
Ethylbenzene	1000 lb final RQ 454 kg final RQ
Naphthalene	100 lb final RQ 45.4 kg final RQ

SARA:

The following EPA hazard categories apply to this product:

Acute Health Hazard Chronic Health Hazard Fire Hazard

SARA Section 313:

This product may contain component(s), which if in exceedance of the de minimus threshold, may be subject to the reporting requirements of SARA Title III Section 313 Toxic Release Reporting (Form R).

Name	CERCLA/SARA 313 Emission reporting:
Gasoline	None
Toluene	1.0 % de minimis concentration
Ethyl Alcohol	None
Xylene (mixed isomers)	1.0 % de minimis concentration
1,2,4 Trimethylbenzene	None
Benzene	0.1 % de minimis concentration
n-Hexane	1.0 % de minimis concentration
Ethylbenzene	0.1 % de minimis concentration
Naphthalene	0.1 % de minimis concentration

#### State and Community Right-To-Know Regulations:

The following component(s) of this material are identified on the regulatory lists below:

Gasoline

Louisiana Right-To-Know:	Not Listed.
California Proposition 65:	Not Listed.
New Jersey Right-To-Know:	SN 0957
Pennsylvania Right-To-Know:	Present
Massachusetts Right-To Know:	Present
Florida Substance List:	Not Listed.
Rhode Island Right-To-Know:	Not Listed.
Michigan Critical Materials Register List:	Not Listed.
Massachusetts Extraordinarily Hazardous Substances:	Not Listed.
California - Regulated Carcinogens:	Not Listed.
Pennsylvania RTK - Special Hazardous	Not Listed.
Substances:	
New Jersey - Special Hazardous Substances:	Carcinogen; Fla

Carcinogen; Flammable - third degree

New Jersey - Environmental Hazardous Substances List:

Illinois - Toxic Air Contaminants New York - Reporting of Releases Part 597 -List of Hazardous Substances: Toluene Louisiana Right-To-Know:

California Proposition 65:

New Jersey Right-To-Know: Pennsylvania Right-To-Know: Massachusetts Right-To Know: Florida Substance List: Rhode Island Right-To-Know: Michigan Critical Materials Register List: Massachusetts Extraordinarily Hazardous Substances: California - Regulated Carcinogens: Pennsylvania RTK - Special Hazardous Substances: New Jersey - Special Hazardous Substances: New Jersey - Environmental Hazardous Substances List: Illinois - Toxic Air Contaminants New York - Reporting of Releases Part 597 -List of Hazardous Substances: Ethyl Alcohol

Louisiana Right-To-Know: California Proposition 65:

New Jersey Right-To-Know: Pennsylvania Right-To-Know: Massachusetts Right-To Know: Florida Substance List: Rhode Island Right-To-Know: Michigan Critical Materials Register List: Massachusetts Extraordinarily Hazardous Substances: California - Regulated Carcinogens: Pennsylvania RTK - Special Hazardous Substances: New Jersey - Special Hazardous Substances: New Jersey - Environmental Hazardous Substances List: Illinois - Toxic Air Contaminants New York - Reporting of Releases Part 597 -List of Hazardous Substances: Xylene (mixed isomers) Louisiana Right-To-Know: California Proposition 65: New Jersey Right-To-Know: Pennsylvania Right-To-Know: Massachusetts Right-To Know: Florida Substance List: Rhode Island Right-To-Know: Michigan Critical Materials Register List:

Massachusetts Extraordinarily Hazardous Substances:

California - Regulated Carcinogens:

SN 0957 TPQ: 10000 lb (Under N.J.A.C. 7:1G, environmental hazardous substances in mixtures such as gasoline or new and used petroleum oil may be reported under these categories) Present Not Listed.

Not Listed. Developmental toxicity, initial date 1/1/91 Female reproductive toxicity, initial date 8/7/09 SN 1866 Environmental hazard Present Not Listed. Toxic (skin); Flammable (skin) 100 lb Annual usage threshold Not Listed. Not Listed. Not Listed. Not Listed.

Flammable - third degree; Teratogen SN 1866 TPQ: 500 lb

Present 1000 lb RQ (air); 1 lb RQ (land/water)

Not Listed.

Carcinogen, initial date 4/29/11 (in alcoholic beverages) Carcinogen, initial date 7/1/88 (when associated with alcohol abuse) Developmental toxicity, initial date 10/1/87 (in alcoholic beverages) SN 0844 Present Teratogen Not Listed. Toxic; Flammable Not Listed. Not Listed. Not Listed. Not Listed. Not Listed. Not Listed.

Carcinogen; Flammable - third degree; Mutagen; Teratogen Not Listed.

Present Not Listed.

Not Listed. Not Listed. SN 2014 Environmental hazard Present Not Listed. Toxic (skin); Flammable (skin) 100 lb Annual usage threshold all isomers Not Listed. Not Listed.

Pennsylvania RTK - Special Hazardous Not Listed. Substances: New Jersey - Special Hazardous Substances: Flammable - third degree New Jersey - Environmental Hazardous SN 2014 TPQ: 500 lb Substances List: Illinois - Toxic Air Contaminants Present New York - Reporting of Releases Part 597 -1000 lb RQ (air); 1 lb RQ (land/water) List of Hazardous Substances: 1,2,4 Trimethylbenzene Louisiana Right-To-Know: Not Listed. California Proposition 65: Not Listed. New Jersey Right-To-Know: SN 1929 Pennsylvania Right-To-Know: Present Massachusetts Right-To Know: Present Florida Substance List: Not Listed. Rhode Island Right-To-Know: Toxic Michigan Critical Materials Register List: Not Listed. Massachusetts Extraordinarily Hazardous Substances: Not Listed. California - Regulated Carcinogens: Not Listed. Pennsylvania RTK - Special Hazardous Not Listed. Substances: New Jersey - Special Hazardous Substances: Not Listed. New Jersey - Environmental Hazardous Not Listed. Substances List: Illinois - Toxic Air Contaminants Present New York - Reporting of Releases Part 597 -Not Listed. List of Hazardous Substances: Benzene Louisiana Right-To-Know: Not Listed. California Proposition 65: Carcinogen, initial date 2/27/87 Developmental toxicity, initial date 12/26/97 Male reproductive toxicity, initial date 12/26/97 New Jersey Right-To-Know: SN 0197 Pennsylvania Right-To-Know: Environmental hazard; Special hazardous substance Massachusetts Right-To Know: Carcinogen; Extraordinarily hazardous Florida Substance List: Not Listed. Rhode Island Right-To-Know: Toxic (skin); Flammable (skin); Carcinogen (skin) Michigan Critical Materials Register List: 100 lb Annual usage threshold Massachusetts Extraordinarily Hazardous Substances: Carcinogen; Extraordinarily hazardous California - Regulated Carcinogens: Not Listed. Pennsylvania RTK - Special Hazardous Present Substances: New Jersey - Special Hazardous Substances: Carcinogen; Flammable - third degree; Mutagen New Jersey - Environmental Hazardous SN 0197 TPQ: 500 lb Substances List: Illinois - Toxic Air Contaminants Present New York - Reporting of Releases Part 597 -10 lb RQ (air); 1 lb RQ (land/water) List of Hazardous Substances: n-Hexane Louisiana Right-To-Know: Not Listed. California Proposition 65: Not Listed. New Jersey Right-To-Know: SN 1340 Pennsylvania Right-To-Know: Present Massachusetts Right-To Know: Present Florida Substance List: Not Listed. Rhode Island Right-To-Know: Toxic; Flammable Michigan Critical Materials Register List: Not Listed. Massachusetts Extraordinarily Hazardous Substances: Not Listed. California - Regulated Carcinogens: Not Listed. Pennsylvania RTK - Special Hazardous Not Listed. Substances:

New Jersey - Special Hazardous Substances: Flammable - third degree SN 1340 TPQ: 500 lb New Jersey - Environmental Hazardous Substances List: Illinois - Toxic Air Contaminants Present New York - Reporting of Releases Part 597 -1 lb RQ (air); 1 lb RQ (land/water) List of Hazardous Substances: Ethylbenzene Louisiana Right-To-Know: Not Listed. California Proposition 65: Carcinogen, initial date 6/11/04 New Jersey Right-To-Know: SN 0851 Pennsylvania Right-To-Know: Environmental hazard Massachusetts Right-To Know: Present Florida Substance List: Not Listed. Rhode Island Right-To-Know: Toxic; Flammable Michigan Critical Materials Register List: Not Listed. Massachusetts Extraordinarily Hazardous Substances: Not Listed. California - Regulated Carcinogens: Not Listed. Pennsylvania RTK - Special Hazardous Not Listed. Substances: New Jersey - Special Hazardous Substances: Carcinogen: flammable - Third degree New Jersey - Environmental Hazardous SN 0851 TPQ: 500 lb Substances List: Illinois - Toxic Air Contaminants Present New York - Reporting of Releases Part 597 -1000 lb RQ (air); 1 lb RQ (land/water) List of Hazardous Substances: Naphthalene Louisiana Right-To-Know: Not Listed. California Proposition 65: Carcinogen, initial date 4/19/02 New Jersey Right-To-Know: SN 1322 SN 3758 Pennsylvania Right-To-Know: Environmental hazard Present (particulate) Massachusetts Right-To Know: Present Florida Substance List: Not Listed. Rhode Island Right-To-Know: Toxic; Flammable Michigan Critical Materials Register List: Not Listed. Massachusetts Extraordinarily Hazardous Substances: Not Listed. California - Regulated Carcinogens: Not Listed. Pennsylvania RTK - Special Hazardous Not Listed. Substances: New Jersey - Special Hazardous Substances: Carcinogen New Jersey - Environmental Hazardous SN 1322 TPQ: 500 lb (Reportable at the de minimis quantity of Substances List: >0.1%) Illinois - Toxic Air Contaminants Present New York - Reporting of Releases Part 597 -100 lb RQ (air); 1 lb RQ (land/water) List of Hazardous Substances:

Canada DSL/NDSL Inventory:

This product and/or its components are listed either on the Domestic Substances List (DSL) or are exempt.

Canadian Regulatory Information:

"This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the (M)SDS contains all the information required by the Controlled Products Regulations."

Name	Canada - WHMIS: Classifications of Substances:	Canada - WHMIS: Ingredient Disclosure:
Gasoline	B2,D2A,D2B	0.1%
Toluene	B2,D2A,D2B	0.1%
Ethyl Alcohol	B2,D2B	0.1%
Xylene (mixed isomers)	B2,D2A,D2B	m-, o-isomers 1.0%; p-isomer 0.1%
1,2,4 Trimethylbenzene	B3	1
Benzene	B2,D2A,D2B	0.1%

n-Hexane	B2,D2A,D2B	1%
Ethylbenzene	B2,D2A,D2B	0.1%
Naphthalene	B4,D2A	0.1%



NOTE:

Not Applicable.

### **16. OTHER INFORMATION**

Prepared By Revision Date: Toxicology and Product Safety 05/18/2015

**Revision Note:** 

<u>Disclaimer</u>

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 is intended as guidance for safe handling, use, processing, storage, transportation, accidental release, clean-up and disposal and is not considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.



# **Material Safety Data Sheet**

MSDS ID NO.: Revision date:	0124SPE012 06/02/2006
1. CHEMIC	AL PRODUCT AND COMPANY INFORMATION
Product code:	SW01
Product name: Synonym: Chemical Family:	SSA Speedway Heavy Duty SAE 30 Motor Oil Speedway HD-30 Motor Oil; Speedway Heavy Duty SAE 30 Motor Oil; Speedway HD-SAE 30 Heavy Duty Motor Oil; Speedway Heavy Duty Motor Oil Motor/Lube Oil
Chemical Failiny.	Motor/Eube Oli
Formula:	Mixture
<b>Manufacturer:</b> Speedway/Superamerica LLC P O BOX 1500 ENON OH 45501	
Other information:	419-421-3070

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Motor oil is a complex mixture of highly refined lubricating oil base stocks and additives.

877-627-5463

### Product information:

**Emergency telephone number:** 

Name	CAS Number	Weight %	ACGIH Exposure Limits:	OSHA - Vacated PELs - Time Weighted Ave	Other:
Speedway Heavy Duty SAE 30 Motor Oil	Mixture	100			

### **Component Information:**

Name	CAS Number	Weight %	ACGIH Exposure Limits:	OSHA - Vacated PELs - Time Weighted Ave	Other:
Distillates, Hydrotreated Heavy	64742-54-7	93-95			
Paraffinic					
Additives	Not specified	5-7			
Zinc Alkyl Dithiophosphate	68649-42-3	0.6-1.0			

#### Notes:

The manufacturer has voluntarily elected to reflect exposure limits contained in OSHA's 1989 air contaminants standard in its MSDS's, even though certain of those exposure limits were vacated in 1992.

### 3. HAZARDS IDENTIFICATION

### **EMERGENCY OVERVIEW**

MOTOR OIL IS A NON-VOLATILE AND NON-COMBUSTIBLE, AMBER COLORED LIQUID, BUT WILL IGNITE AND BURN AT ELEVATED TEMPERATURES.

### OSHA WARNING LABEL:

**MSDS ID NO.:** 0124SPE012

# THIS PRODUCT HAS BEEN EVALUATED AND DOES NOT REQUIRE ANY HAZARD WARNING LABEL UNDER THE OSHA HAZARD COMMUNICATION STANDARD.

### CONSUMER WARNING LABEL:

### A CONSUMER WARNING LABEL IS NOT APPLICABLE FOR THIS PRODUCT.

Inhalation:	No acute effects expected from routine operations. Overheating of product may produce vapors which can cause respiratory irritation, dizziness and nausea.
Ingestion:	Product has a low order of acute toxicity. This is based on data from components or similar products.
Skin contact:	Prolonged or repeated liquid contact can cause dermatitis, folliculitis or oil acne.
Eye contact:	Liquid or vapor contact may result in slight eye irritation.

### Carcinogenic Evaluation:

#### **Product information:**

Name	IARC Carcinogens:	NTP Carcinogens:	ACGIH - Carcinogens:	OSHA - Select Carcinogens:
Speedway Heavy Duty SAE 30 Motor Oil	NE			
Mixture				

#### Notes:

The International Agency for Research on Cancer (IARC) has determined that there is no evidence that severely solvent-refined oils are carcinogenic to experimental animals.

### **Component Information:**

### 4. FIRST AID MEASURES

Inhalation:	If affected, move person to fresh air. If breathing is difficult, administer oxygen. If no breathing or if no heartbeat, give artificial respiration or cardiopulmonary resuscitation (CPR). Immediately call a physician. If symptoms or irritation occur with any exposure, call a physician.	
Skin contact:	<ul><li>Wash with soap and large amounts of water. Remove contaminated clothing. If symptoms or irritation occur, call a physician.</li><li>If product is accidentally injected into or under the skin, regardless of wound size or initial absence of symptoms, the individual should be evaluated immediately by a physician as a surgical emergency.</li></ul>	
Ingestion:	Not expected to be acutely toxic. If large amounts are swallowed, immediately call physician.	а
Eye contact:	Flush eyes with large amounts of tepid water for at least 15 minutes. If symptoms o irritation occur, call a physician.	r
Notes to physician:	High velocity injection under the skin may result in serious injury. If left untreated the affected area is subject to infection, disfigurement, lack of blood circulation and may require amputation. When dispensed by high pressure equipment this material can easily penetrate the skin and leave a bloodless puncture wound. Material injected into a finger can be deposited into the palm of the hand. Within 24-48 hours the patient may experience swelling, discoloration, and throbbing pain in the affected area. Immediate treatment by a surgical specialist is recommended.	/
MSDS ID NO.: 0124SPE012	Product name: SSA Speedway Heavy Duty SAEPage 2 or30 Motor Oil	f 8

### **5. FIRE FIGHTING MEASURES**

Suitable extinguishing media: Specific hazards: Special protective equipment for firefighters:	For small fires, Class B fire extinguishing media such as CO2, dry chemical, foam (AFFF/ATC) or water spray can be used. For large fires, water spray, fog or foam (AFFT/ATC) can be used. Fire fighting should be attempted only by those who are adequately trained and equipped with proper protective equipment. This material is not combustible per the OSHA Hazard Communication Standard, but will ignite and burn at elevated temperatures. Avoid using straight water streams. Water spray and foam (AFFF/ATC) must be applied carefully to avoid frothing and from as far a distance as possible. Avoid excessive water spray application. Use water spray to cool exposed surfaces from as far a distance as possible. Keep run-off water out of sewers and water sources.
Flash point: Autoignition temperature: Flammable limits in air - lower (%): Flammable limits in air - upper (%):	>430 F, >221.1 C (COC) No data available. No data available. No data available.
NFPA rating: Health: 1 Flammability: 1 Reactivity: 0 Other: -	HMIS classification: Health: 1 Flammability: 1 Reactivity: 0 Special: *See Section 8 for guidance in selection of personal protective equipment.

### 6. ACCIDENTAL RELEASE MEASURES

### **Personal precautions:**

Keep public away. Isolate and evacuate area. Shut off source if safe to do so. Advise authorities and National Response Center (800-424-8802) if substance has entered a watercourse or sewer. Advise local and state emergency services agencies, if appropriate. Contain liquid with sand or soil. Recover and return free product to proper containers. Use suitable absorbent materials such as vermiculite, sand, or clay to clean up residual liquids.

### 7. HANDLING AND STORAGE

### Handling:

Comply with all applicable EPA, OSHA, NFPA and consistent state and local requirements. Use appropriate grounding and bonding practices. Store in properly closed containers that are appropriately labeled and in a cool well-ventilated area. Do not cut, drill, grind or weld on empty containers since they may contain explosive residues. Do not pressurize or expose to heat, open flames, strong oxidizers or other sources of ignition.

Avoid repeated and prolonged skin contact. Exercise good personal hygiene including removal of soiled clothing and prompt washing with soap and water.

### **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

### PERSONAL PROTECTIVE EQUIPMENT

**MSDS ID NO.:** 0124SPE012

Engineering measures:	Local or general exhaust required in an enclosed area or when there is inadequate ventilation.
Respiratory protection:	Not required under normal conditions and adequate ventilation. Approved organic vapor chemical cartridge or supplied air respirators should be worn for exposures to any components exceeding the TLV or STEL. Observe respirator protection factor criteria cited in ANSI Z88.2. Self-contained breathing apparatus should be used for fire fighting.
Skin and body protection:	Use chemical resistant gloves such as neoprene, nitrile, or PVA to prevent prolonged or repeated skin contact.
Eye protection:	No special eye protection is normally required.

## 9. PHYSICAL AND CHEMICAL PROPERTIES:

# **10. STABILITY AND REACTIVITY**

Stability:	The material is stable at 70 F, 760 mm pressure.
Polymerization:	Will not occur.
Hazardous decomposition products:	Carbon monoxide, carbon dioxide, hydrogen sulfide, oxides of sulfur, oxides of nitrogen, oxides of zinc, aldehydes and hydrocarbons., Thermal decomposition may produce hydrogen sulfide and other sulfur-containing gases at temperatures greater than 150 F.
Materials to avoid:	Strong oxidizers such as nitrates, chlorates, peroxides.
Conditions to avoid:	Heat and open flames.

# **11. TOXICOLOGICAL INFORMATION**

### Acute toxicity:

#### **Product information:**

Name	CAS Number	Inhalation:	Dermal:	Oral:
Speedway Heavy Duty SAE 30 Motor	Mixture	LD50 = 2.18 to > 4 mg/l	LD50 > 2 gm/kg	LD50 > 5 ml/kg
Oil		[Rat]	[Rabbit]	[Rat]

Based on data from components this product is considered to have a low order of acute oral and dermal toxicity. Chronic skin painting studies with severely solvent refined neutral oils did not produce evidence of skin cancer in mice.

This product contains approximately 0-1.5% of a zinc alkyl dithiophosphate (ZDDP) additive. ZDDP has been found to have weak mutagenic activity in cultured cells. Repeated dermal exposures of ZDDP produced severe skin irritation, significant weight loss and testicular atrophy in male rabbits but not male rats at high concentrations. Subsequent research showed that the testicular effect was due to the severe stress and weight loss as seen with other caustic materials and not a direct effect of ZDDP. The concentration of ZDDP in this product is significantly lower than exposure levels that produced these effects in rabbits.

Used motor oil applied to the skin of rabbits at doses of 8 ml/kg/day, 5 days/wk, for two weeks, produced significant weight loss and skin irritation but no mortality. Used motor oil was found to produce skin tumors in mice in lifetime skin painting studies. Solvent extracts of used motor oils were found to be positive in the Ames mutagenicity test.

12. ECOLOGICAL INFORM	ATION	[
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#### **Ecotoxicity effects:**

Water accomated fractions (WAF) of highly refined base oils did not produce acute toxicity in fish (100-1000 mg/l), fresh water algae (500 mg/l) or daphnia (10,000 mg/l) in 48-96 hour LC50 studies.

Used motor and/or lube oils can be toxic to birds and fish.

### **13. DISPOSAL CONSIDERATIONS**

**Cleanup Considerations:** 

This material as supplied and by itself, when discarded or disposed of, is not an EPA RCRA hazardous waste according to federal regulations. This material could become a hazardous waste if mixed or contaminated with a hazardous waste or other substance(s). It is the responsibility of the user to determine if disposal material is hazardous according to federal, state and local regulations.

Don't pollute. Conserve resources. Send used product to recycling center. Dispose of cleanup materials in accordance with applicable local, state and federal regulations.

### **14. TRANSPORT INFORMATION**

### 49 CFR 172.101:

DOT:

Transport Information:

This material when transported via US commerce is NOT REGULATED by DOT regulations.

Packing group: DOT reportable quantity (lbs): Not applicable. Not applicable.

Not applicable.

TDG (Canada): Packing group: MSDS ID NO.: 0124SPE012

Product name: SSA Speedway Heavy Duty SAE 30 Motor Oil

### **15. REGULATORY INFORMATION**

### Federal Regulatory Information:

US TSCA Chemical Inventory Section 8(b): This product and/or its components are listed on the TSCA Chemical Inventory.
OSHA Hazard Communication Standard: This product has been evaluated and determined not to be hazardous as defined in OSHA's Hazard Communication Standard.

### EPA Superfund Amendment & Reauthorization Act (SARA):

#### SARA Section 302:

This product contains the following component(s) that have been listed on EPA's Extremely Hazardous Substance (EHS) List:

Name	CERCLA/SARA - Section 302 Extremely Hazardous Substances and TPQs
Distillates, Hydrotreated Heavy	NA
Paraffinic	
Additives	NA
Zinc Alkyl Dithiophosphate	NA

#### SARA Section 304:

This product contains the following component(s) identified either as an EHS or a CERCLA Hazardous substance which in case of a spill or release may be subject to SARA reporting requirements:

Name	CERCLA/SARA - Hazardous Substances and their Reportable Quantities
Distillates, Hydrotreated Heavy	NA
Paraffinic	
Additives	NA
Zinc Alkyl Dithiophosphate	NA

### SARA Section 311/312:

The following EPA hazard categories apply to this product:

None

#### SARA Section 313:

This product contains the following component(s) that may be subject to reporting on the Toxic Release Inventory (TRI) From R:

Name	CERCLA/SARA 313 Emission reporting:
Distillates, Hydrotreated Heavy Paraffinic	None
Additives	None
Zinc Alkyl Dithiophosphate	None

### State and Community Right-To-Know Regulations:

The following component(s) of this material are identified on the regulatory lists below:

Distillates, Hydrotreated Heavy Paraffinic

Louisiana Right-To-Know:		Not Listed
California Proposition 65:		Not Listed
New Jersey Right-To-Know:		Not Listed.
Pennsylvania Right-To-Know:		Not Listed.
Massachusetts Right-To Know:		Not Listed.
Florida substance List:		Not Listed.
Rhode Island Right-To-Know:		Not Listed
Michigan critical materials register list:		Not Listed.
Massachusetts Extraordinarily Hazardous		Not Listed
Substances:		
DS ID NO · 0124SPE012	Product name: S	SA Speedway Heavy Duty S

**MSDS ID NO.:** 0124SPE012

California - Regulated Carcinogens:	Not Listed
Pennsylvania RTK - Special Hazardous	Not Listed
Substances:	
New Jersey - Special Hazardous Substances:	Not Listed
New Jersey - Environmental Hazardous	Not Listed
Substances List:	
Illinois - Toxic Air Contaminants	Not Listed
New York - Reporting of Releases Part 597 -	Not Listed
List of Hazardous Substances:	
Additives	
Louisiana Right-To-Know:	Not Listed
California Proposition 65:	Not Listed
New Jersey Right-To-Know:	Not Listed.
Pennsylvania Right-To-Know:	Not Listed.
Massachusetts Right-To Know:	Not Listed.
Florida substance List:	Not Listed.
Rhode Island Right-To-Know:	Not Listed
Michigan critical materials register list:	Not Listed.
Massachusetts Extraordinarily Hazardous	Not Listed
Substances:	NOT LISTED
California - Regulated Carcinogens:	Not Listed
Pennsylvania RTK - Special Hazardous	Not Listed
Substances:	NOT LISTED
New Jersey - Special Hazardous Substances:	Not Listed
New Jersey - Environmental Hazardous	Not Listed
Substances List:	Not Elotou
Illinois - Toxic Air Contaminants	Not Listed
New York - Reporting of Releases Part 597 -	Not Listed
List of Hazardous Substances:	Not Elotou
Zinc Alkyl Dithiophosphate	
Louisiana Right-To-Know:	Not Listed
California Proposition 65:	Not Listed
New Jersey Right-To-Know:	Not Listed.
Pennsylvania Right-To-Know:	Not Listed.
Massachusetts Right-To Know:	Not Listed.
Florida substance List:	Not Listed.
Rhode Island Right-To-Know:	Not Listed
Michigan critical materials register list:	Not Listed.
•	Not Listed
Massachusetts Extraordinarily Hazardous Substances:	NOT LISTED
California - Regulated Carcinogens:	Not Listed
Pennsylvania RTK - Special Hazardous	Not Listed
Substances:	
New Jersey - Special Hazardous Substances:	Not Listed
New Jersey - Environmental Hazardous	Not Listed
Substances List:	
Illinois - Toxic Air Contaminants	Not Listed
New York - Reporting of Releases Part 597 -	Not Listed
List of Hazardous Substances:	NOT LISTOU

### Canadian Regulatory Information:

Canada DSL/NDSL Inventory:

This product and/or its components are listed either on the Domestic Substances List (DSL) or are exempt.

### **16. OTHER INFORMATION**

### **Additional Information:**

No data available.

### Prepared by:

Craig M. Parker Manager, Toxicology and Product Safety

The information and recommendations contained herein are based upon tests believed to be reliable. However, Speedway SuperAmerica (SSA) does not guarantee their accuracy or completeness nor shall any of this information constitute a warranty, whether expressed or implied, as to the safety of the goods, the merchantability of the goods, or the fitness of the goods for a particular purpose. Adjustment to conform to actual conditions of usage maybe required. SSA assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied.

### End of Safety Data Sheet