



# SAFETY DATA SHEET

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Version 4

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### Product identifier

**Product Name:** FUEL-SYSTEM FLUSH

### Other means of identification

**Common Name:** 0127  
**UN/ID No** NA1993 (Domestic)  
**Synonyms** None  
**Product Categories** Fuel additive

### Recommended use of the chemical and restrictions on use

**Sale and Use Restrictions** Not applicable  
**Recommended Use** Restricted to professional users.  
**Uses advised against** Consumer use

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

**Supplier Address**  
MOC PRODUCTS CO., INC.  
12306 Montague Street  
Pacoima, CA 91331

### Emergency telephone number

**Company Phone Number** MOC PRODUCTS CO., INC. (818) 794-3500  
**Emergency Telephone** CHEMTREC 1-800-424-9300

## 2. HAZARDS IDENTIFICATION

### Classification

Acute toxicity - Dermal	Category 4
Acute toxicity - Inhalation (Vapors)	Category 3
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Germ cell mutagenicity	Sub-category 1B
Carcinogenicity	Category 2
Aspiration toxicity	Category 1
Flammable liquids	Category 3

### Label elements

#### Emergency Overview

#### Danger

#### Hazard statements

Harmful in contact with skin  
 Toxic if inhaled  
 Causes skin irritation  
 Causes severe eye irritation  
 May cause genetic defects  
 Suspected of causing cancer  
 May be fatal if swallowed and enters airways  
 Flammable liquid and vapor



**Appearance** Mobile

**Physical state** Liquid

**Odor** Amine

#### Precautionary Statements - Prevention

Obtain special instructions before use  
 Do not handle until all safety precautions have been read and understood  
 Use personal protective equipment as required  
 Avoid breathing dust/fume/gas/mist/vapors/spray  
 Use only outdoors or in a well-ventilated area  
 Wash face, hands and any exposed skin thoroughly after handling  
 Wear eye/face protection  
 Keep away from heat/sparks/open flames/hot surfaces. — No smoking  
 Keep container tightly closed  
 Ground/bond container and receiving equipment (if metal)  
 Use explosion-proof electrical/ventilating/lighting equipment  
 Use only non-sparking tools  
 Take precautionary measures against static discharge  
 Keep cool

#### Precautionary Statements - Response

If exposed or concerned: Get medical advice/attention  
 Specific measures (see prevention statements and warnings on this label)  
 Specific treatment (see response statements below and Section 4 of the Safety Data Sheet)

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

If eye irritation persists: Get medical advice/attention  
 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower  
 If skin irritation occurs: Get medical advice/attention  
 Wash contaminated clothing before reuse  
 Call a POISON CONTROL CENTER or doctor/physician if you feel unwell  
 IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing  
 Call a POISON CONTROL CENTER or doctor/physician  
 IF SWALLOWED: Immediately call a POISON CONTROL CENTER or doctor/physician  
 Do not induce vomiting  
 In case of fire: Use CO<sub>2</sub>, dry chemical, or foam for extinction

**Precautionary Statements - Storage**

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

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)****Other information**

- May be harmful if swallowed
  - Toxic to aquatic life with long lasting effects
  - Toxic to aquatic life
- 12 % of the mixture consists of ingredient(s) of unknown toxicity

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Weight %	Trade Secret
Light Aromatic Solvent Naphtha	64742-95-6	30-60	*
Hydrotreated Light Petroleum Distillates	64742-47-8	25-55	*
Monoalkylaryl alkoxyate aminated	PROPRIETARY	15-30	*
1,2,4-Trimethylbenzene	95-63-6	10-20	*
Polyolefin Alkyl Phenol Alkyl Amine	PROPRIETARY	10-20	*
1,3,5-Trimethylbenzene	108-67-8	5-12	*
N-Propylbenzene	103-65-1	3-10	*
Xylene	1330-20-7	3-7	*
Cumene	98-82-8	3-7	*
1,2,3-Trimethylbenzene	526-73-8	3-7	*
o-Ethyltoluene	611-14-3	1-4	*
2-Ethyl Hexanol	104-76-7	1-4	*
Ethylbenzene	100-41-4	0.1-0.5	*

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

#### 4. FIRST AID MEASURES

##### First aid measures

<b>General advice</b>	If exposed or concerned: Get medical advice/attention. Show this safety data sheet to the doctor in attendance.
<b>Skin contact</b>	Rinse immediately with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash contaminated clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
<b>Inhalation</b>	Keep at rest position comfortable for breathing. Remove to fresh air. Call a physician or Poison Control Center.
<b>Eye contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Check for and remove any contact lenses. Continue to rinse for at least ten minutes. Seek immediate medical attention/advice.
<b>Ingestion</b>	Call a physician or Poison Control Center immediately. If swallowed, rinse mouth with water (only if the person is conscious). Remove dentures, if any. Give small quantities of water to drink. Stop if exposed person feels sick as vomiting may be dangerous. Never give anything by mouth to an unconscious person.

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

<b>Symptoms</b>	Cough, Difficulty in breathing, Respiratory irritation; Stomach and intestinal upset (diarrhea, nausea, vomiting); Skin irritation, Causes skin burns, Eye irritation, Causes eye burns.
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##### Indication of any immediate medical attention and special treatment needed

<b>Self-protection of the first aider</b>	Avoid breathing vapors or mists. Avoid contact with skin. It may be dangerous to the person providing first aid to give mouth-to-mouth resuscitation.
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#### 5. FIRE-FIGHTING MEASURES

##### Suitable extinguishing media:

Use water spray (fog), foam, dry chemical or CO<sub>2</sub>.

<b>Small Fire</b>	Dry chemical or CO <sub>2</sub> .
<b>Large Fire</b>	Water spray or fog, Foam.
<b>Explosive properties:</b>	Risk of explosion if heated under confinement: Fire or intense heat may cause violent rupture of packages.

##### Specific hazards arising from the chemical

FLAMMABLE LIQUID AND VAPOR. Keep product and empty container away from heat and sources of ignition. Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may be highly dangerous if inhaled in confined spaces or at high concentration. The product causes irritation of eyes, skin and mucus membranes.

**Hazardous combustion products** Aldehydes, Hydrocarbons, Carbon dioxide (CO<sub>2</sub>), Carbon monoxide, Nitrogen oxides (NO<sub>x</sub>).

##### Specific methods:

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** Yes. May be ignited by heat, sparks or flames.

##### Special firefighting procedures:

No action shall be taken involving any personal risk without suitable training. Evacuate surrounding areas. Dike to collect large liquid spills. FLAMMABLE LIQUID AND VAPOR. As in any fire, wear self-contained breathing apparatus pressure-demand,

MSHA/NIOSH (approved or equivalent) and full protective gear. The product is insoluble and floats on water. Water mist may be used to cool closed containers. Do not use water jet. Use water spray to keep fire-exposed containers cool. Move containers from fire area if you can do it without risk. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Component	ACGIH - test
Xylene 1330-20-7 ( 3-7 )	1.5
Ethylbenzene 100-41-4 ( 0.1-0.5 )	0.15

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**Personal precautions:** Keep people away from and upwind of spill/leak. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Pay attention to flashback. Use personal protective equipment. See Section 8 for information on appropriate personal protective equipment.

**For emergency responders** Use personal protection recommended in Section 8. Ventilate the area. Remove all sources of ignition. Be aware that gases can spread at ground level (heavier than air) and pay attention to the wind direction.

### Environmental precautions

**Environmental precautions:** Avoid subsoil penetration. Do not flush into surface water or sanitary sewer system. Water runoff can cause environmental damage. Local authorities should be advised if significant spillages cannot be contained.

### Methods and material for containment and cleaning up

**Methods for Containment** Dike far ahead of spill; use dry sand to contain the flow of material. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container.

**Methods for clean-up:** Clean-up methods - small spillage: Ventilate the area. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Large spills present a vapor explosion and liquid fire hazard; evacuate area and ensure response by personnel trained and equipped to respond to flammable material incident or off-site emergency responders or fire department.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Handling:** Avoid breathing vapors or mists. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Keep containers tightly closed in a cool, well-ventilated place. Protect from physical damage. Do not store at temperatures above 120°F (50°C). Keep product and empty container away from heat and sources of ignition. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Empty containers retain product residue and can be hazardous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose these containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death.

### Conditions for safe storage, including any incompatibilities

**Technical measures/precautions:** Mechanical ventilation required if used indoors on a continuous basis. Eye wash and safety shower should be easily accessible.

**Materials to avoid:** Chlorine, Strong oxidizing agents, Strong acids, Alkalis Reducing agents.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### **Exposure Guidelines**

<b>Chemical Name</b>	<b>ACGIH TLV</b>	<b>OSHA Exposure Limits:</b>	<b>NIOSH IDLH</b>
Light Aromatic Solvent Naphtha 64742-95-6	-	TWA: 100 ppm	-
Hydrotreated Light Petroleum Distillates 64742-47-8	TWA: 200 ppm	TWA: 500 ppm	-
Monoalkylaryl alkoxyate aminated PROPRIETARY	-	Not established	-
1,2,4-Trimethylbenzene 95-63-6	TWA: 25 ppm	Not established	TWA: 25 ppm TWA: 125 mg/m <sup>3</sup>
Polyolefin Alkyl Phenol Alkyl Amine PROPRIETARY	-	Not established	-
1,3,5-Trimethylbenzene 108-67-8	TWA: 25 ppm	TWA: 25 ppm TWA: 125 mg/m <sup>3</sup>	TWA: 25 ppm TWA: 125 mg/m <sup>3</sup>
N-Propylbenzene 103-65-1	-	Not established	-
Xylene 1330-20-7	STEL: 150 ppm TWA: 100 ppm	TWA: 100 ppm TWA: 435 mg/m <sup>3</sup>	-
Cumene 98-82-8	TWA: 50 ppm	TWA: 50 ppm TWA: 245 mg/m <sup>3</sup>	IDLH: 900 ppm TWA: 50 ppm TWA: 245 mg/m <sup>3</sup>
1,2,3-Trimethylbenzene 526-73-8	TWA: 25 ppm	TWA: 25 ppm TWA: 125 mg/m <sup>3</sup>	TWA: 25 ppm TWA: 125 mg/m <sup>3</sup>
o-Ethyltoluene 611-14-3	-	-	-
2-Ethyl Hexanol 104-76-7	S* TWA: 50 ppm	TWA: 50 ppm TWA: 270 mg/m <sup>3</sup>	TWA: 50 ppm TWA: 270 mg/m <sup>3</sup>
Ethylbenzene 100-41-4	TWA: 20 ppm	TWA: 100 ppm TWA: 435 mg/m <sup>3</sup>	IDLH: 800 ppm TWA: 100 ppm TWA: 435 mg/m <sup>3</sup> STEL: 125 ppm STEL: 545 mg/m <sup>3</sup>

#### **Appropriate engineering controls**

**Engineering measures:** Mechanical ventilation required if used indoors on a continuous basis. Eye wash and safety shower should be easily accessible.

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

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Skin and body protection** Wear normal work clothing. Chemical resistant gloves. (consult with the specific manufacturer to confirm performance). Additional body garments should be used based on task being performed: Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

**Respiratory protection** Provide adequate ventilation. If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice. Avoid breathing vapors or mists. When using do not eat, drink or smoke. Use personal protective equipment as required. Avoid contact with eyes, skin and clothing. Wash face, hands and any exposed skin thoroughly after handling. Take off contaminated clothing and wash it before reuse.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Physical state</b>	Liquid	<b>Odor</b>	Amine
<b>Appearance</b>	Mobile	<b>Odor threshold</b>	No information available
<b>Color</b>	Clear, Light brown		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>pH</b>	N/A	Not applicable
<b>Melting point/freezing point</b>	No information available	
<b>Boiling point / boiling range</b>	> 85 °C / 185 °F	(based on components)
<b>Flash point</b>	51 °C / 124 °F	Pensky-Martens Closed Cup (PMCC)
<b>Evaporation rate</b>	Slower than ether	Slower than ether
<b>Flammability (solid, gas)</b>	No information available	
<b>Flammability Limits in Air</b>		
<b>Upper flammability limit</b>	No Data Available	
<b>Lower flammability limit</b>	No Data Available	
<b>Vapor pressure</b>	No Data Available	
<b>Vapor density</b>	Heavier than air	
<b>Specific Gravity</b>	0.88	
<b>Water solubility</b>	Insoluble in water	
<b>Solubility in other solvents</b>	No Data Available	
<b>Partition coefficient</b>	No Data Available	
<b>Autoignition temperature</b>	No Data Available	
<b>Decomposition temperature</b>	No Data Available	
<b>Kinematic viscosity</b>	No information available	
<b>Dynamic viscosity</b>	No Data Available	
<b>Explosive properties</b>	No Data Available	
<b>Oxidizing properties</b>	No Data Available	

### Other information

<b>Softening point</b>	No Data Available
<b>Molecular weight</b>	No Data Available
<b>VOC Content (%)</b>	
<b>VOC Content (%)</b>	21.4%
	CAS# 64742-47-8 is a VOC Exempt solvent
<b>Density</b>	0.88 g/cc
<b>Bulk density</b>	No Data Available

## 10. STABILITY AND REACTIVITY

### Reactivity

Reactivity Stable.

### Chemical stability

**Possibility of Hazardous Reactions** None under normal processing.  
**Hazardous polymerization** Hazardous polymerization does not occur.

### Conditions to avoid

Heat, flames and sparks.

### Incompatible materials

**Materials to avoid:** Chlorine, Strong oxidizing agents, Strong acids, Alkalis Reducing agents.

### Hazardous Decomposition Products

**Hazardous Decomposition Products** Aldehydes, Hydrocarbons Carbon dioxide (CO<sub>2</sub>), Carbon monoxide, Nitrogen oxides (NO<sub>x</sub>).

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

<b>Product Information</b>	Harmful in contact with skin. Toxic if inhaled. Causes skin irritation. Causes severe eye irritation. May be fatal if swallowed and enters airways. May cause genetic defects. Suspected of causing cancer.
<b>Inhalation</b>	Toxic if inhaled: Avoid breathing vapors or mists.
<b>Eye contact</b>	Causes severe eye irritation.
<b>Skin Contact</b>	Harmful in contact with skin.
<b>Ingestion</b>	May be fatal if swallowed and enters airways. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Light Aromatic Solvent Naphtha 64742-95-6	-	> 2000 mg/kg ( Rabbit )	> 5.2 mg/L ( Rat ) 4 h, = 3400 ppm ( Rat ) 4 h
Hydrotreated Light Petroleum Distillates 64742-47-8	> 5000 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	> 5.2 mg/L ( Rat ) 4 h
Monoalkylaryl alkoxyolate aminated PROPRIETARY	2100 mg/kg ( Rat )	>3000 mg/kg ( Rat )	-
1,2,4-Trimethylbenzene 95-63-6	= 3280 mg/kg ( Rat ) = 8970 mg/kg ( Rat )	> 3160 mg/kg ( Rabbit )	= 18 g/m <sup>3</sup> ( Rat ) 4 h
Polyolefin Alkyl Phenol Alkyl Amine PROPRIETARY	>10000 mg/kg (Rat)	>10000 mg/kg (Rabbit)	=19171 mg/m <sup>3</sup> (Rat) 4 h
1,3,5-Trimethylbenzene 108-67-8	-	-	= 24 g/m <sup>3</sup> ( Rat ) 4 h
N-Propylbenzene 103-65-1	-	-	= 65000 ppm ( Rat ) 2 h
Xylene 1330-20-7	= 3500 mg/kg ( Rat ) = 4820 mg/kg ( Rat )	> 4350 mg/kg ( Rabbit ) > 2000 mg/kg ( Rabbit )	= 29.08 mg/L ( Rat ) 4 h > 5.04 mg/L ( Rat ) 4 h
Cumene 98-82-8	= 1400 mg/kg ( Rat )	= 12300 µL/kg ( Rabbit )	> 3577 ppm ( Rat ) 6 h
1,2,3-Trimethylbenzene 526-73-8	-	-	-
o-Ethyltoluene 611-14-3	-	-	-
2-Ethyl Hexanol 104-76-7	= 3730 mg/kg ( Rat ) = 1480 mg/kg ( Rat ) = 5190 µL/kg ( Rat ) = 11100 mg/kg ( Rat ) > 5000 mg/kg ( Rat ) > 2000 mg/kg ( Rat ) = 3900 mg/kg ( Rat )	= 1980 mg/kg ( Rabbit ) > 2.6 g/kg ( Rabbit ) > 2000 mg/kg ( Rat ) > 3160 mg/kg ( Rabbit )	> 227 ppm ( Rat ) 6 h > 0.58 mg/L ( Rat ) 4 h > 0.72 mg/L ( Rat ) 6 h
Ethylbenzene 100-41-4	= 3500 mg/kg ( Rat ) = 4820 mg/kg ( Rat )	= 15400 mg/kg ( Rabbit ) > 2000 mg/kg ( Rabbit )	= 17.4 mg/L ( Rat ) 4 h > 5.04 mg/L ( Rat ) 4 h

### Information on toxicological effects

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

<b>Sensitization</b>	Skin Sensitization, Respiratory Sensitization: Not classified.
<b>Mutagenic effects:</b>	Is classified by the European Union as a mutagen of category 1B: Substances which should be regarded as being mutagenic to man.
<b>Carcinogenicity</b>	Category 2: Substances that cause cancer in animals, and are considered to cause cancer in man. Category 3: Not Classifiable.

Chemical Name	ACGIH	IARC	NTP	OSHA
Xylene 1330-20-7		Group 3		
Cumene 98-82-8		Group 2B	Reasonably Anticipated	
Ethylbenzene 100-41-4		Group 2B		



<b>Reproductive toxicity</b>	In the presence of slight maternal toxicity, fetotoxic effects have been observed in the offspring of rats exposed by inhalation.
<b>Teratogenicity</b>	2-Ethylhexanol (CAS#104-76-7): Causes fetotoxicity in animals at doses which are maternally toxic.
<b>STOT - single exposure</b>	Not classified.
<b>STOT - repeated exposure</b>	Not classified.
<b>Chronic toxicity</b>	Xylene contains ethylbenzene: Ethylbenzene has been classified by the International Agency for Research on Cancer (IARC) as possibly carcinogenic to humans (Group 2B). Prolonged or repeated overexposure to ethylbenzene may result in adverse effects to the kidneys, liver, respiratory system, thyroid, testicles, and pituitary glands. Acute or chronic exposure to this material (or its components) may cause systemic toxicity, including adverse effects to the following: kidney, liver, spleen, adrenals, thymus, and central nervous system.
<b>Target Organ Effects</b>	Kidney, Liver, Spleen, Adrenal gland, Thymus, Central nervous system.
<b>Neurological effects</b>	Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.
<b>Other adverse effects</b>	This product contains trimethylbenzene. Literature data indicate that long-term inhalation exposure causes blood effects in laboratory animals.
<b>Aspiration hazard</b>	May be fatal if swallowed and enters airways.

**Numerical measures of toxicity - Product Information**

<b>Unknown Acute Toxicity</b>	12 % of the mixture consists of ingredient(s) of unknown toxicity
<b>The following values are calculated based on chapter 3.1 of the GHS document .</b>	
<b>ATEmix (oral)</b>	2881 mg/kg
<b>ATEmix (dermal)</b>	1731 mg/kg
<b>ATEmix (inhalation-dust/mist)</b>	7.6 mg/l
<b>ATEmix (inhalation-vapor)</b>	8.1 mg/l

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Acute Aquatic Toxicity: Toxic to aquatic life. Chronic Aquatic Toxicity: Toxic to aquatic life with long lasting effects.

32.16 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Light Aromatic Solvent Naphtha 64742-95-6		9.22: 96 h Oncorhynchus mykiss mg/L LC50		6.14: 48 h Daphnia magna mg/L EC50
Hydrotreated Light Petroleum Distillates 64742-47-8		45: 96 h Pimephales promelas mg/L LC50 flow-through 2.2: 96 h Lepomis macrochirus mg/L LC50 static 2.4: 96 h Oncorhynchus mykiss mg/L LC50 static		
1,2,4-Trimethylbenzene 95-63-6		7.19 - 8.28: 96 h Pimephales promelas mg/L LC50 flow-through 7.72: 96 h Pimephales promelas mg/L LC50 flow-through		6.14: 48 h Daphnia magna mg/L EC50
1,3,5-Trimethylbenzene 108-67-8		3.48: 96 h Pimephales promelas mg/L LC50 7.72: 96 h Pimephales promelas mg/L LC50 flow-through		
Xylene 1330-20-7	11: 72 h Pseudokirchneriella subcapitata mg/L EC50	13.4: 96 h Pimephales promelas mg/L LC50 flow-through 2.661 - 4.093: 96 h Oncorhynchus mykiss mg/L LC50 static 780: 96 h Cyprinus carpio mg/L LC50 semi-static 780: 96 h Cyprinus carpio mg/L LC50 13.1 - 16.5: 96 h Lepomis macrochirus mg/L LC50 flow-through 23.53 - 29.97: 96 h Pimephales promelas mg/L LC50 static 30.26 - 40.75: 96 h Poecilia reticulata mg/L LC50 static 7.711 - 9.591: 96 h Lepomis macrochirus mg/L LC50 static 13.5 - 17.3: 96 h Oncorhynchus mykiss mg/L LC50 19: 96 h Lepomis macrochirus mg/L LC50		0.6: 48 h Gammarus lacustris mg/L LC50 3.82: 48 h water flea mg/L EC50
Cumene 98-82-8	2.6: 72 h Pseudokirchneriella subcapitata mg/L EC50	6.04 - 6.61: 96 h Pimephales promelas mg/L LC50 flow-through 4.8: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 2.7: 96 h Oncorhynchus mykiss mg/L LC50 semi-static 5.1: 96 h Poecilia reticulata mg/L LC50 semi-static		7.9 - 14.1: 48 h Daphnia magna mg/L EC50 Static 0.6: 48 h Daphnia magna mg/L EC50
1,2,3-Trimethylbenzene 526-73-8		7.72: 96 h Pimephales promelas mg/L LC50 flow-through		
2-Ethyl Hexanol 104-76-7	11.5: 72 h Desmodesmus subspicatus mg/L EC50 2.7: 96 h Pseudokirchneriella subcapitata mg/L EC50	4.78 - 8.85: 96 h Oncorhynchus mykiss mg/L LC50 static 3.6 - 5.1: 96 h Lepomis macrochirus mg/L LC50 static 28.7: 96		4.78 - 8.87: 48 h Daphnia magna mg/L EC50 Static 31.8: 48 h Daphnia magna mg/L EC50 320: 48 h Daphnia magna mg/L

		h Lepomis macrochirus mg/L LC50 static 0.056 - 7.5: 96 h Oncorhynchus mykiss mg/L LC50 static 32 - 37: 96 h Oncorhynchus mykiss mg/L LC50 static 7.5: 96 h Oncorhynchus mykiss mg/L LC50 27 - 29.5: 96 h Pimephales promelas mg/L LC50 flow-through 29.7: 96 h Pimephales promelas mg/L LC50 static 10.0 - 33.0: 96 h Lepomis macrochirus mg/L LC50 static		EC50 39: 48 h Daphnia magna mg/L EC50 8.5: 48 h Daphnia magna mg/L EC50
Ethylbenzene 100-41-4	4.6: 72 h Pseudokirchneriella subcapitata mg/L EC50 438: 96 h Pseudokirchneriella subcapitata mg/L EC50 2.6 - 11.3: 72 h Pseudokirchneriella subcapitata mg/L EC50 static 1.7 - 7.6: 96 h Pseudokirchneriella subcapitata mg/L EC50 static 11: 72 h Pseudokirchneriella subcapitata mg/L EC50	11.0 - 18.0: 96 h Oncorhynchus mykiss mg/L LC50 static 4.2: 96 h Oncorhynchus mykiss mg/L LC50 semi-static 7.55 - 11: 96 h Pimephales promelas mg/L LC50 flow-through 32: 96 h Lepomis macrochirus mg/L LC50 static 9.1 - 15.6: 96 h Pimephales promelas mg/L LC50 static 9.6: 96 h Poecilia reticulata mg/L LC50 static		1.8 - 2.4: 48 h Daphnia magna mg/L EC50

**Persistence and degradability**

This product contains components which may be persistent in the environment.

**Bioaccumulation**

Bioaccumulative potential.

**Mobility**

The product is insoluble and floats on water.

Chemical Name	Partition coefficient
N-Propylbenzene 103-65-1	-0.49
Xylene 1330-20-7	3.12-3.2
Cumene 98-82-8	3.55
Ethylbenzene 100-41-4	2.92

### 13. DISPOSAL CONSIDERATIONS

**Waste treatment methods****Disposal of wastes**

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

**Contaminated packaging**

Do not reuse container. Dispose of in accordance with federal, state and local regulations.

### 14. TRANSPORT INFORMATION

Limited quantity (LQ)

< 5 Liters

**DOT**

**UN/ID No** NA1993  
**Proper Shipping Name:** Combustible liquid, n.o.s. (Petroleum Distillates, 1,2,4-Trimethyl Benzene)  
**Hazard Class** COMB. LIQ.  
**Packing Group:** III  
**Emergency Response Guide Number** 128

**IATA**

**UN/ID No** UN1993  
**Proper Shipping Name:** Flammable liquids, n.o.s. (Petroleum Distillates, 1,2,4-Trimethyl Benzene), Marine Pollutant  
**Hazard Class** 3  
**Packing Group:** III

**IMDG**

**UN/ID No** UN1993  
**Proper Shipping Name:** Flammable liquids, n.o.s. (Petroleum Distillates, 1,2,4-Trimethyl Benzene), Marine Pollutant  
**Hazard Class** 3  
**Packing Group:** III  
**Marine pollutant** This material meets the definition of a marine pollutant

## 15. REGULATORY INFORMATION

### International Inventories

#### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory  
 DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List

### Federal Regulations

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS Number	Weight %	SARA 313 - Threshold Values %
1,2,4-Trimethylbenzene 95-63-6	95-63-6	10-20	1.0% de minimis concentration
Xylene 1330-20-7	1330-20-7	3-7	1.0 % de minimis concentration
Cumene 98-82-8	98-82-8	3-7	1.0% de minimis concentration
Ethylbenzene 100-41-4	100-41-4	0.1-0.5	0.1 % de minimis concentration

#### **SARA 311/312 Hazard Categories**

Acute health hazard	Yes
Chronic Health Hazard	Yes
Fire hazard	Yes
Sudden release of pressure hazard	No
Reactive Hazard	No

#### **CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Xylene 1330-20-7	100 lb			X
Ethylbenzene 100-41-4	1000 lb	X	X	X

#### **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Xylene 1330-20-7	100 lb		RQ 100 lb final RQ RQ 45.4 kg final RQ
Cumene 98-82-8	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ
Ethylbenzene 100-41-4	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ

### State Regulations (RTK)

#### **California Proposition 65**

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

Chemical Name	CAS Number	California Proposition 65
Cumene	98-82-8	Carcinogen
Ethylbenzene	100-41-4	Carcinogen
Benzene	71-43-2	Carcinogen Developmental Male Reproductive
Acetaldehyde	75-07-0	Carcinogen
Toluene	108-88-3	Developmental
Furan	110-00-9	Carcinogen
Naphthalene	91-20-3	Carcinogen
Propylene oxide	75-56-9	Carcinogen

**U.S. State Right-to-Know Regulations****U.S. EPA Label Information**

EPA Pesticide Registration Number Not applicable

**16. OTHER INFORMATION****NFPA Rating**

Health hazards 2

Flammability 2

Instability 0

Physical and Chemical Properties -

**HMIS Rating**

Health hazards 2\*

Flammability 2

Physical hazards 0

Personal protection C

*Chronic Hazard Star Legend*

\* = Chronic Health Hazard

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**Revision Note**

Formula The Emergency Overview has changed. SEE SECTION 2. This data sheet contains changes from the previous version in section(s): 1, 2, 3, 9, 11.

**Disclaimer**

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

**End of Safety Data Sheet**