



SAFETY DATA SHEET

Issue Date 09-24-2019

Revision Date 09-24-2019

Version 2

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

Product identifier

Product Name: ENHANCE™

Other means of identification

Common Name: 0432
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 4
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
 Harmful 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 Petroleum distillates

Physical state Liquid

Odor Solvent

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

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
 Call a POISON CONTROL CENTER or doctor/physician if you feel unwell
 If skin irritation occurs: Get medical advice/attention
 Wash contaminated clothing before reuse
 IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing
 IF SWALLOWED: Immediately call a POISON CONTROL CENTER or doctor/physician
 Do not induce vomiting
 In case of fire: Use CO₂, dry chemical, or foam for extinction

Precautionary Statements - Storage

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

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
- 6 % 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	30-50	*
Hydrotreated Light Petroleum Distillates	64742-47-8	25-40	*
Monoalkylaryl alkoxyate aminated	PROPRIETARY	25-40	*
1,2,4-Trimethylbenzene	95-63-6	10-15	*
1,3,5-Trimethylbenzene	108-67-8	4-12	*
Polyolefin Alkyl Phenol Alkyl Amine	PROPRIETARY	4-12	*
N-Propylbenzene	103-65-1	3-10	*
Xylene	1330-20-7	2-6	*
Cumene	98-82-8	2-6	*
1,2,3-Trimethylbenzene	526-73-8	2-6	*
o-Ethyltoluene	611-14-3	0.2-1	*
Ethylbenzene	100-41-4	0.2-1	*

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

4. FIRST AID MEASURES

First aid measures

General advice	If exposed or concerned: Get medical advice/attention.
Skin contact	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.
Inhalation	Remove to fresh air. Keep at rest position comfortable for breathing. If not breathing, give artificial respiration. Seek immediate medical attention/advice. If unconscious, place in recovery position and seek medical attention immediately.
Eye contact	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.
Ingestion	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.
Notes to Physician	Aspiration hazard if swallowed - can enter lungs and cause damage. Symptoms may be delayed.

Most important symptoms and effects, both acute and delayed

Symptoms	Coughing and/ or wheezing. Respiratory irritation. 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

Self-protection of the first aider	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. First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment (chemical resistant gloves, splash protection). If potential for exposure exists refer to Section 8 for specific personal protective equipment.
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5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

Use water spray (fog), foam, dry chemical or CO₂.

Small Fire	Dry chemical or CO ₂ .
Large Fire	Water spray or fog; Foam.
Explosive properties:	Risk of explosion if heated under confinement. Fire or intense heat may cause violent rupture of packages. In a fire or if heated, a pressure increase will occur and container may burst.

Specific hazards arising from the chemical

FLAMMABLE LIQUID AND VAPOR. Keep product and empty container away from heat and sources of ignition. In a fire or if heated, a pressure increase will occur and container may burst. Flash back possible over considerable distance. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Runoff to sewer may create fire or explosion hazard. Runoff may pollute waterways. 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.

Hazardous combustion products Aldehydes, Hydrocarbons, Carbon dioxide (CO₂), Carbon monoxide, Nitrogen oxides

(NOx).

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. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Component	ACGIH - test
Xylene	1.5
1330-20-7 (2-6)	
Ethylbenzene	0.15
100-41-4 (0.2-1)	

6. ACCIDENTAL RELEASE MEASURES

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

Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Pay attention to flashback. Use personal protective equipment. For personal protective equipment see section 8 of the SDS. Avoid contact with skin and eyes. Avoid breathing vapors or mists.

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:**

Environmental hazard. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. Water runoff can cause environmental damage. Avoid subsoil penetration. Local authorities should be advised if significant spillages cannot be contained.

Methods and material for containment and cleaning up**Methods for Containment**

Prevent further leakage or spillage if safe to do so. 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. Use only non-sparking tools. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container.
Clean-up methods - large spillage: 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:**

Do not get in eyes, on skin, or on clothing. Avoid breathing vapors or mists. Keep product and empty container away from heat and sources of ignition. Do not store at temperatures above 120°F (50°C). 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: Ensure adequate ventilation. Mechanical ventilation required if used indoors on a continuous basis. Eye wash and safety shower should be easily accessible.

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA Exposure Limits:	NIOSH IDLH
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 ³
1,3,5-Trimethylbenzene 108-67-8	TWA: 25 ppm	TWA: 25 ppm TWA: 125 mg/m ³	TWA: 25 ppm TWA: 125 mg/m ³
Polyolefin Alkyl Phenol Alkyl Amine PROPRIETARY	-	Not established	-
N-Propylbenzene 103-65-1	-	Not established	-
Xylene 1330-20-7	STEL: 150 ppm TWA: 100 ppm	TWA: 100 ppm TWA: 435 mg/m ³	-
Cumene 98-82-8	TWA: 50 ppm	TWA: 50 ppm TWA: 245 mg/m ³	IDLH: 900 ppm TWA: 50 ppm TWA: 245 mg/m ³
1,2,3-Trimethylbenzene 526-73-8	TWA: 25 ppm	TWA: 25 ppm TWA: 125 mg/m ³	TWA: 25 ppm TWA: 125 mg/m ³
o-Ethyltoluene 611-14-3	-	-	-
Ethylbenzene 100-41-4	TWA: 20 ppm	TWA: 100 ppm TWA: 435 mg/m ³	IDLH: 800 ppm TWA: 100 ppm TWA: 435 mg/m ³ STEL: 125 ppm STEL: 545 mg/m ³

Appropriate engineering controls

Engineering measures:

Mechanical ventilation required if used indoors on a continuous basis. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit values. 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). If splashes are likely to occur, wear: Face protection shield.

Skin and body protection

Wear normal work clothing: Long sleeved clothing, Chemical resistant gloves. Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact (consult with the specific manufacturer to confirm performance). Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product.

Respiratory protection

Ensure adequate ventilation, especially in confined areas. 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. A respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 and ANSI Z88.2 should be followed whenever workplace conditions warrant a respirator's use. Emergency response/release cleanup may require additional respiratory protection, including SCBAs.

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice. When using do not

eat, drink or smoke. Avoid contact with eyes, skin and clothing. Avoid breathing (dust, vapor, mist, gas). Use personal protective equipment as required. Take off contaminated clothing and wash it before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Liquid	Odor	Solvent
Appearance	Petroleum distillates	Odor threshold	No information available
Color	Clear, Colorless		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	N/A	Not applicable
Melting point/freezing point	No information available	
Boiling point / boiling range	>= 155 °C / 311 °F	(Lowest liquid component)
Flash point	44 °C / 111 °F	(based on components)
Evaporation rate		Slower than ether
Flammability (solid, gas)	No information available	
Flammability Limits in Air		
Upper flammability limit	No Data Available	
Lower flammability limit	No Data Available	
Vapor pressure	No Data Available	
Vapor density	Heavier than air	Heavier than air
Specific Gravity	0.90	@ 20° C
Water solubility	Insoluble in water	
Solubility in other solvents	No Data Available	
Partition coefficient	No Data Available	
Autoignition temperature	No Data Available	
Decomposition temperature	No Data Available	
Kinematic viscosity	No information available	
Dynamic viscosity	No Data Available	
Explosive properties	No Data Available	
Oxidizing properties	No Data Available	

Other information

Softening point	No Data Available
Molecular weight	No Data Available
VOC Content (%)	28.5
VOC Content (%)	CAS# 64742-47-8 is a VOC Exempt solvent
Density	0.90 g/cc
Bulk density	No Data Available

10. STABILITY AND REACTIVITY

Reactivity

Reactivity Stable under normal conditions.

Chemical stability

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

Conditions to avoid

Heat, flames and sparks. Do not cut, weld, braze, solder, drill grind or expose containers to heat or other sources of ignition. Incompatible materials.

Incompatible materials

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

Hazardous Decomposition Products

Hazardous Decomposition Products Aldehydes, Hydrocarbons, Carbon dioxide (CO₂), Carbon monoxide, Nitrogen oxides (NO_x).

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information	Harmful in contact with skin. Harmful 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.
Inhalation	Harmful if inhaled. May cause sensitization by inhalation. Avoid breathing vapors or mists.
Eye contact	Causes severe eye irritation: redness, stinging, tearing and swelling. Avoid contact with eyes.
Skin Contact	Harmful in contact with skin.
Ingestion	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 alkoxyate 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 ³ (Rat) 4 h
1,3,5-Trimethylbenzene 108-67-8	-	-	= 24 g/m ³ (Rat) 4 h
Polyolefin Alkyl Phenol Alkyl Amine PROPRIETARY	>10000 mg/kg (Rat)	>10000 mg/kg (Rabbit)	=19171 mg/m ³ (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	-	-	-
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

Sensitization	Skin Sensitization: Not expected. Respiratory Sensitization: Not classified.
Mutagenic effects:	Is classified by the European Union as a mutagen of category 1B. Substances which should be regarded as being mutagenic to man.
Carcinogenicity	This product contains one or more substances which are classified by IARC as probably carcinogenic to humans (Group 2A) or possibly carcinogenic to humans (Group 2B). Category 3: Not classifiable as carcinogenic.

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		

Reproductive toxicity	Solvent Naphtha, light aromatic (CAS#64742-95-6): In the presence of slight maternal toxicity, fetotoxic effects have been observed in the offspring of rats exposed by inhalation.
STOT - single exposure	Not classified.
STOT - repeated exposure	Not classified.

Chronic toxicity	Prolonged skin contact may defat the skin and produce dermatitis. 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.
Target Organ Effects Neurological effects	Blood, Central nervous system, Skin, Ears, Eyes, Respiratory system, Liver, Kidney, Heart. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.
Other adverse effects	This product contains trimethylbenzene. Literature data indicate that long-term inhalation exposure causes blood effects in laboratory animals. Auditory system: prolonged and repeated exposure to high concentrations have resulted in hearing losses in rats. Solvent abuse and noise interaction in the work environment may cause hearing loss.
Aspiration hazard	May be fatal if swallowed and enters airways.

Numerical measures of toxicity - Product Information

Unknown Acute Toxicity	6 % of the mixture consists of ingredient(s) of unknown toxicity
The following values are calculated based on chapter 3.1 of the GHS document .	
ATEmix (oral)	2845 mg/kg
ATEmix (dermal)	1853 mg/kg
ATEmix (inhalation-dust/mist)	8.6 mg/l
ATEmix (inhalation-vapor)	13 mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity

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

37.08 % 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		
Ethylbenzene 100-41-4	4.6: 72 h Pseudokirchneriella subcapitata mg/L EC50 438: 96 h Pseudokirchneriella	11.0 - 18.0: 96 h Oncorhynchus mykiss mg/L LC50 static 4.2: 96 h Oncorhynchus mykiss mg/L LC50 semi-static		1.8 - 2.4: 48 h Daphnia magna mg/L EC50

	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	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		
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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 liquids, 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

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	10-15	1.0% de minimis concentration
Xylene 1330-20-7	1330-20-7	2-6	1.0 % de minimis concentration
Cumene 98-82-8	98-82-8	2-6	1.0% de minimis concentration
Ethylbenzene 100-41-4	100-41-4	0.2-1	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
Toluene	108-88-3	Developmental
Furan	110-00-9	Carcinogen
Benzene	71-43-2	Carcinogen Developmental Male Reproductive
Acetaldehyde	75-07-0	Carcinogen
Propylene oxide	75-56-9	Carcinogen
Naphthalene	91-20-3	Carcinogen
Ethylbenzene	100-41-4	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 D

Prepared by Environmental Health and Safety Department

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Revision Note

Disclaimer

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End of Safety Data Sheet