



Issue Date 01-24-2020

Revision Date 01-27-2020

# SAFETY DATA SHEET

Version 1

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

**Product identifier**

**Product Name:** ETHANOL ULTRA

**Other means of identification**

**Common Name:** VTP-2009  
**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**

Valor  
61400 American Lane, Suite 130  
Bend, Oregon 97702-9409

**Emergency telephone number**

**Company Phone Number** Valor: (541) 815-9145  
**Emergency Telephone** CHEMTREC 1-800-424-9300

## 2. HAZARDS IDENTIFICATION

### Classification

Acute toxicity - Inhalation (Vapors)	Category 3
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

Toxic if inhaled  
 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** 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 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 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
  - May be harmful in contact with skin
  - Causes mild skin irritation
  - Toxic to aquatic life with long lasting effects
  - Harmful to aquatic life
- 2 % of the mixture consists of ingredient(s) of unknown toxicity

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS Number	Weight %	Trade Secret
Hydrotreated Light Petroleum Distillates	64742-47-8	75-85	*
Monoalkylaryl alkoxyate aminated	PROPRIETARY	7-12	*
Light Aromatic Solvent Naphtha	64742-95-6	7-12	*
1,2,4-Trimethylbenzene	95-63-6	1-6	*
N-Propylbenzene	103-65-1	1-3	*
1,3,5-Trimethylbenzene	108-67-8	1-3	*
Benzenamine, N-Phenyl-, Reaction Products With 2,4,4-Trimethylpentene	68411-46-1	0-2	*
Alkyl diphenylamine	184378-08-3	0-2	*
Cumene	98-82-8	0.1-1	*
1,2,3-Trimethylbenzene	526-73-8	0.1-1	*
Ethylbenzene	100-41-4	0.1-0.4	*

\*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.
<b>Skin contact</b>	Immediately flush skin with plenty of water for at least 15 (30 or 60) minutes. Remove contaminated clothing and shoes. Thoroughly clean shoes before reuse. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/ attention.
<b>Inhalation</b>	IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing. 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. Get medical attention.
<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. Do not induce vomiting: contains petroleum distillates and/or aromatic solvents.
<b>Notes to Physician</b>	Aspiration hazard if swallowed - can enter lungs and cause damage. Symptoms may be delayed.

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

<b>Symptoms</b>	Gastrointestinal tract (GI): Diarrhea, Nausea, Vomiting. Respiratory irritation, Lowered blood pressure. Eye irritation: Causes eye burns. Drowsiness, Dizziness. Skin irritation, Shortness of breath.
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##### Indication of any immediate medical attention and special treatment needed

<b>Self-protection of the first aider</b>	Avoid contact with skin. Avoid breathing vapors or mists. 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

COMBUSTIBLE MATERIAL. Keep product and empty container away from heat and sources of ignition. 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 may create fire or explosion hazard. 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. May cause sensitization by skin contact. The product causes irritation of eyes, skin and mucus membranes.

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

##### Specific methods:

**Sensitivity to Mechanical Impact** None.

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

**Special firefighting procedures:**

Combustible liquid. Keep away from heat, sparks and flame. The product is insoluble and floats on water. Use fine water spray to reduce vapors; do not put water directly on point of material release from container. Water mist may be used to cool closed containers. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Dike to collect large liquid spills.

Component  
Ethylbenzene  
100-41-4 ( 0.1-0.4 )

ACGIH - test  
0.15

## 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 personal protective equipment. See Section 8 for information on appropriate personal protective equipment. Avoid contact with skin and eyes. Pay attention to flashback.

**For emergency responders** Use personal protection recommended in Section 8. Remove all sources of ignition. Ventilate the area. 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 area. Absorb spill with suitable inert absorbent material and 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. Protect from physical damage. Do not store at temperatures above 120°F (50°C). Keep containers tightly closed in a cool, well-ventilated place. 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, Strong reducing agents.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### **Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA Exposure Limits:	NIOSH IDLH
Hydrotreated Light Petroleum Distillates 64742-47-8	TWA: 200 ppm	TWA: 500 ppm	-
Monoalkylaryl alkoxylate aminated PROPRIETARY	-	Not established	-
Light Aromatic Solvent Naphtha 64742-95-6	-	TWA: 100 ppm	-
1,2,4-Trimethylbenzene 95-63-6	TWA: 25 ppm	Not established	TWA: 25 ppm TWA: 125 mg/m <sup>3</sup>
N-Propylbenzene 103-65-1	-	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>
Benzenamine, N-Phenyl-, Reaction Products With 2,4,4-Trimethylpentene 68411-46-1	STEL: No data TWA: 10 mg/m <sup>3</sup>	Not established	-
Alkyl diphenylamine 184378-08-3	-	Not established	-
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>
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: Chemical resistant suit, and boots; Face-shield, Chemical resistant apron.

**Respiratory protection** Ensure adequate ventilation, especially in confined areas. No personal respiratory protective equipment normally required. 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 vapors or mists. Use personal protective equipment as required. 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>	Petroleum distillates	<b>Odor threshold</b>	No information available
<b>Color</b>	Clear, Colorless to pale yellow		

<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>	> 217 °C / 422 °F	(based on components)
<b>Flash point</b>	>= 44 °C / 111 °F	(based on components)
<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>	0.82	
<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>	7.50
<b>VOC Content (%)</b>	CAS# 64742-47-8 is a VOC Exempt solvent
<b>Density</b>	.82 g/cc
<b>Bulk density</b>	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.

### Incompatible materials

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

### Hazardous Decomposition Products

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

Aldehydes.



## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

<b>Product Information</b>	Toxic if inhaled. Causes severe eye irritation. May cause genetic defects. Suspected of causing cancer. May be fatal if swallowed and enters airways.
<b>Inhalation</b>	Toxic by inhalation. Avoid breathing vapors or mists.
<b>Eye contact</b>	Avoid contact with eyes: Causes severe eye irritation.
<b>Skin Contact</b>	Avoid contact with skin. May be harmful in contact with skin. Causes mild skin irritation. May cause sensitization by skin contact.
<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
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 )	-
Light Aromatic Solvent Naphtha 64742-95-6	-	> 2000 mg/kg ( Rabbit )	> 5.2 mg/L ( Rat ) 4 h, = 3400 ppm ( Rat ) 4 h
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
N-Propylbenzene 103-65-1	-	-	= 65000 ppm ( Rat ) 2 h
1,3,5-Trimethylbenzene 108-67-8	-	-	= 24 g/m <sup>3</sup> ( Rat ) 4 h
Benzenamine, N-Phenyl-,Reaction Products With 2,4,4-Trimethylpentene 68411-46-1	>2000 mg/kg (Rat)	>2000 mg/kg (Rat)	2170 mg/m <sup>3</sup> (rat) 4hr
Alkyl diphenylamine 184378-08-3	>5000 mg/kg(Rat)	>2000 mg/kg (Rabbit)	-
Cumene 98-82-8	= 1400 mg/kg ( Rat )	= 12300 µL/kg ( Rabbit )	> 3577 ppm ( Rat ) 6 h
1,2,3-Trimethylbenzene 526-73-8	-	-	-
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>	The table below indicates whether each agency has listed any ingredient as a carcinogen. 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).

Chemical Name	ACGIH	IARC	NTP	OSHA
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>STOT - single exposure</b>	Not classified.
<b>STOT - repeated exposure</b>	Not classified.
<b>Chronic toxicity</b>	Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitization of susceptible persons. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal. Chronic hydrocarbon abuse has been associated

	with irregular heart rhythms and potential cardiac arrest. 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.
<b>Subchronic toxicity</b>	No information available.
<b>Target Organ Effects</b>	Blood, Kidney, Liver, Heart, Gastrointestinal tract (GI), Upper respiratory tract, Eyes, 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. 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.
<b>Aspiration hazard</b>	May be fatal if swallowed and enters airways.

#### **Numerical measures of toxicity - Product Information**

<b>Unknown Acute Toxicity</b>	2 % 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>	4415 mg/kg
<b>ATEmix (dermal)</b>	2007 mg/kg
<b>ATEmix (inhalation-dust/mist)</b>	44.2 mg/l
<b>ATEmix (inhalation-vapor)</b>	6 mg/l

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

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

12.23 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
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		
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
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		
Benzenamine, N-Phenyl-,Reaction Products With 2,4,4-Trimethylpentene 68411-46-1	>100 -72 h mg/L Desmodesmus subspicatus EC50	>71 96h mg/L Brachydanio rerio LC50		=51 48h mg/L EC50 Daphnia magna
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 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
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. (Solvent Naphtha, 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. (Solvent Naphtha, 1,2,4-Trimethyl Benzene)  
**Hazard Class** 3  
**Packing Group:** III  
**ERG Code** 128

**IMDG**

**UN/ID No** UN1993  
**Proper Shipping Name:** Flammable liquids, n.o.s. (Solvent Naphtha, 1,2,4-Trimethyl Benzene)  
**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	1-6	1.0% de minimus concentration
Cumene 98-82-8	98-82-8	0.1-1	1.0% de minimus concentration
Ethylbenzene 100-41-4	100-41-4	0.1-0.4	0.1 % de minimis concentration

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

<b>Acute health hazard</b>	Yes
<b>Chronic Health Hazard</b>	Yes
<b>Fire hazard</b>	Yes
<b>Sudden release of pressure hazard</b>	No
<b>Reactive Hazard</b>	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
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)
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
Propylene oxide	75-56-9	Carcinogen
Naphthalene	91-20-3	Carcinogen
Toluene	108-88-3	Developmental
Furan	110-00-9	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 B

*Chronic Hazard Star Legend*

\* = Chronic Health Hazard

**Prepared by**

Environmental Health and Safety Department

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**Revision Note**

This data sheet contains changes from the previous version in section(s): 1.

**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**