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# SAFETY DATA SHEET

Version 1

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

**Product identifier**

**Product Name:** FUEL INJECTOR CLEANER

**Other means of identification**

**Common Name:** VTP-2001  
**UN/ID No** UN1993  
**Synonyms** None  
**Product Categories** Solvent Based Cleaner

**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



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  
Call a POISON CONTROL CENTER or doctor/physician if you feel unwell  
If skin irritation occurs: Get medical advice/attention  
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower  
Wash contaminated clothing before reuse  
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  
Rinse mouth  
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**

- Very toxic to aquatic life with long lasting effects
  - Very toxic to aquatic life
- 2.8 % of the mixture consists of ingredient(s) of unknown toxicity

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS Number	Weight %	Trade Secret
Xylene	1330-20-7	40-50	*
Naphtha, petroleum, hydrotreated light	64742-49-0	0-40	*
Light Aliphatic Solvent Naphtha	64742-89-8	0-40	*
Distillates (petroleum), light distillate hydrotreating process, low boiling	68410-97-9	0-40	*
Ethylbenzene	100-41-4	5-15	*
N-Methyl-2-Pyrrolidone	872-50-4	5-15	*
2-Butoxyethanol	111-76-2	5-15	*
Petroleum distillates, hydrotreated light	64742-47-8	3-10	*
Toluene	108-88-3	1-6	*
Heptane	142-82-5	1-6	*
Light Aromatic Solvent Naphtha	64742-95-6	1-3	*
Propoxylated alcohol	TRADE SECRET	1-3	*
1-Propene,2-methyl-, homopolymer, hydroformylation products, reaction products with ammonia	337367-30-3	1-3	*
9-Octadecenoic Acid	112-80-1	1-3	*
1,2,4-Trimethylbenzene	95-63-6	0.1-1	*
Cumene	98-82-8	0.1-0.6	*
1,3,5-Trimethylbenzene	108-67-8	0.1-0.5	*
N-Propylbenzene	103-65-1	0.1-0.3	*
1,2,3-Trimethylbenzene	526-73-8	0.1-0.2	*

\*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>	Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash off immediately with plenty of water for at least 15 minutes. Wash contaminated clothing before reuse.
<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>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing: Flush eyes with water for at least 15 minutes. Get medical attention if eye irritation develops or persists.
<b>Ingestion</b>	If swallowed, rinse mouth with water (only if the person is conscious). Call a physician or Poison Control Center immediately. 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>	Drowsiness, Dizziness, Nausea, Lowered blood pressure; Cough, Difficulty in breathing; Eye irritation, Skin irritation.
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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 dry chemical, CO<sub>2</sub>, water spray (fog) or alcohol resistant foam.

<b>Small Fire</b>	Dry chemical or CO <sub>2</sub> .
<b>Large Fire</b>	Water spray or fog, Alcohol resistant foam.
<b>Explosive properties:</b>	Risk of explosion if heated under confinement. May form explosive peroxides. May form explosive mixtures in presence of oxidizing substances (gas/dust).

##### Specific hazards arising from the chemical

Highly flammable liquid and vapor. The product causes irritation of eyes, skin and mucus membranes. 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. Keep product and empty container away from heat and sources of ignition. Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank. 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.

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

##### Specific methods:

**Sensitivity to Mechanical Impact** None.

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

**Special firefighting procedures:**

Highly flammable liquid and vapor. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Evacuate area and fight fire from a safe distance. Use fine water spray to reduce vapors; do not put water directly on point of material release from container. Do not use a solid water stream as it may scatter and spread fire. Fire or intense heat may cause violent rupture of packages. Water mist may be used to cool closed containers. Dike to collect large liquid spills.

Component	ACGIH - test
Xylene 1330-20-7 ( 40-50 )	1.5
Ethylbenzene 100-41-4 ( 5-15 )	0.15
N-Methyl-2-Pyrrolidone 872-50-4 ( 5-15 )	100
2-Butoxyethanol 111-76-2 ( 5-15 )	200
Toluene 108-88-3 ( 1-6 )	0.02 0.03 0.3

**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. Pay attention to flashback. Use spark-proof tools and explosion-proof equipment. See Section 8 for information on appropriate personal protective equipment.

**For emergency responders** Use personal protection recommended in Section 8. 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:** Prevent further leakage or spillage if safe to do so. 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** Remove all sources of ignition. Ventilate the area. Stop leak if you can do it without risk. 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: Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Ground and bond containers when transferring material. 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:** Protect from physical damage. Do not store at temperatures above 49°C (120°F). Avoid breathing vapors or mists. 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). Ground/bond container and receiving equipment (if metal). Keep containers tightly closed in a cool, well-ventilated place. Empty containers retain product residue and can be hazardous.

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

**Technical measures/precautions:** Recommended Use: Local exhaust. Ensure adequate ventilation, especially in confined areas. Eye wash and safety shower should be easily accessible.

**Materials to avoid:** Chlorine, Strong oxidizing agents, Strong acids, Alkalis, Reducing agents, Amines, Ammonia, Acid chlorides.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

**Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA Exposure Limits:	NIOSH IDLH
Xylene 1330-20-7	STEL: 150 ppm TWA: 100 ppm	TWA: 100 ppm TWA: 435 mg/m <sup>3</sup>	-
Naphtha, petroleum, hydrotreated light 64742-49-0	-	TWA: 2000 mg/m <sup>3</sup> TWA 500 ppm	-
Light Aliphatic Solvent Naphtha 64742-89-8	TWA: 300 ppm (as ligroine naphtha)	PEL: 500 ppm, TWA: 300 ppm STEL: 375 ppm (as octane)	-
Distillates (petroleum), light distillate hydrotreating process, low boiling 68410-97-9	-	-	-
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>
N-Methyl-2-Pyrrolidone 872-50-4	-	Not established	-
2-Butoxyethanol 111-76-2	TWA: 20 ppm	TWA: 50 ppm TWA: 240 mg/m <sup>3</sup> TWA: 25 ppm TWA: 120 mg/m <sup>3</sup>	IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m <sup>3</sup>
Petroleum distillates, hydrotreated light 64742-47-8	-	Not established	-
Toluene 108-88-3	TWA: 20 ppm	TWA: 200 ppm TWA: 100 ppm TWA: 375 mg/m <sup>3</sup>	IDLH: 500 ppm TWA: 100 ppm TWA: 375 mg/m <sup>3</sup> STEL: 150 ppm STEL: 560 mg/m <sup>3</sup>
Heptane 142-82-5	STEL: 500 ppm TWA: 400 ppm	TWA: 500 ppm TWA: 2000 mg/m <sup>3</sup> TWA: 400 ppm TWA: 1600 mg/m <sup>3</sup>	IDLH: 750 ppm TWA: 85 ppm TWA: 350 mg/m <sup>3</sup> Ceiling: 440 ppm 15 min Ceiling: 1800 mg/m <sup>3</sup> 15 min
Light Aromatic Solvent Naphtha 64742-95-6	-	TWA: 100 ppm	-
Propoxylated alcohol TRADE SECRET	-	Not established	-
1-Propene,2-methyl-, homopolymer, hydroformylation products, reaction products with ammonia 337367-30-3	-	Not established	-
9-Octadecenoic Acid 112-80-1	-	Not established	-
1,2,4-Trimethylbenzene 95-63-6	TWA: 25 ppm	Not established	TWA: 25 ppm TWA: 125 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>
1,3,5-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	-
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>

**Appropriate engineering controls**

**Engineering measures:**

Recommended Use: Local exhaust. Ensure adequate ventilation, especially in confined areas. 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. 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).

**Respiratory protection**                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.

**General Hygiene Considerations**      Handle in accordance with good industrial hygiene and safety practice. When using do not eat, drink or smoke. Use personal protective equipment as required. Avoid contact with eyes, skin and clothing. Avoid breathing vapors or mists. 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>	Ammoniacal
<b>Appearance</b>	Mobile	<b>Odor threshold</b>	No information available
<b>Color</b>	Pink		

<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>	>= 13 °C / 55 °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	Heavier than air
<b>Specific Gravity</b>	0.84	
<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>	94.1
<b>Density</b>	0.84 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** May react with oxidizing agents.  
**Hazardous polymerization** Hazardous polymerization does not occur.

**Conditions to avoid**  
Heat, flames and sparks. Incompatible materials. Do not allow evaporation to dryness.

**Incompatible materials**

**Materials to avoid:** Chlorine, Strong oxidizing agents, Strong acids, Alkalis, Reducing agents, Amines, Ammonia, Acid chlorides.

**Hazardous Decomposition Products**

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

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

Harmful if swallowed. Harmful in contact with skin. Toxic if inhaled. Causes skin irritation. Causes severe eye irritation. May cause genetic defects. May cause cancer. May damage fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure. May be fatal if swallowed and enters airways.

#### Inhalation

Toxic by inhalation. Avoid breathing vapors or mists. Vapors may be irritating to eyes, nose, throat, and lungs. May cause central nervous system depression with nausea, headache, dizziness, vomiting, and incoordination.

#### Eye contact

Causes severe eye irritation. Avoid contact with eyes.

#### Skin Contact

Harmful in contact with skin. Causes skin irritation. Repeated exposure may cause skin dryness or cracking.

#### Ingestion

May be fatal if swallowed and enters airways. Aspiration may cause pulmonary edema and pneumonitis.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
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
Naphtha, petroleum, hydrotreated light 64742-49-0	> 5000 mg/kg ( Rat )	> 3160 mg/kg ( Rabbit ) > 2000 mg/kg ( Rabbit )	= 73680 ppm ( Rat ) 4 h
Light Aliphatic Solvent Naphtha 64742-89-8	-	= 3000 mg/kg ( Rabbit )	-
Distillates (petroleum), light distillate hydrotreating process, low boiling 68410-97-9	= 5170 mg/kg ( Rat )	-	> 12408 ppm ( Rat ) 4 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
N-Methyl-2-Pyrrolidone 872-50-4	= 3914 mg/kg ( Rat )	= 8 g/kg ( Rabbit )	> 5.1 mg/L ( Rat ) 4 h
2-Butoxyethanol 111-76-2	= 470 mg/kg ( Rat )	= 435 mg/kg ( Rabbit )	= 450 ppm ( Rat ) 4 h = 486 ppm ( Rat ) 4 h
Petroleum distillates, hydrotreated light 64742-47-8	> 5000 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	> 5.2 mg/L ( Rat ) 4 h
Toluene 108-88-3	= 2600 mg/kg ( Rat )	= 12000 mg/kg ( Rabbit )	= 12.5 mg/L ( Rat ) 4 h
Heptane 142-82-5	-	= 3000 mg/kg ( Rabbit )	= 103 g/m <sup>3</sup> ( Rat ) 4 h
Light Aromatic Solvent Naphtha 64742-95-6	-	> 2000 mg/kg ( Rabbit )	> 5.2 mg/L ( Rat ) 4 h, = 3400 ppm ( Rat ) 4 h
Propoxylated alcohol TRADE SECRET	-	-	-
1-Propene,2-methyl-, homopolymer, hydroformylation products, reaction products with ammonia 337367-30-3	-	-	-
9-Octadecenoic Acid 112-80-1	= 25 g/kg ( Rat ) > 5000 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
Cumene 98-82-8	= 1400 mg/kg ( Rat )	= 12300 µL/kg ( Rabbit )	> 3577 ppm ( Rat ) 6 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
1,2,3-Trimethylbenzene 526-73-8	-	-	-

### 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 carcinogenic to humans (Group1), probably carcinogenic to humans (Group 2A) or possibly carcinogenic to humans (Group 2B). Category 1B: CAS# 68410-97-9, CAS# 64742-49-0, CAS#64742-89-8. Category 3: Not Classifiable.

Chemical Name	ACGIH	IARC	NTP	OSHA
Xylene 1330-20-7		Group 3		
Naphtha, petroleum, hydrotreated light 64742-49-0		Group 3		
Ethylbenzene 100-41-4		Group 2B		
2-Butoxyethanol 111-76-2		Group 3		
Toluene 108-88-3		Group 3 (not classified)		
Cumene 98-82-8		Group 2B	Reasonably Anticipated	

**Reproductive toxicity** Sub-category 1B: presumed human reproductive toxicant. Product contains a chemical or chemicals which are known or suspected reproductive hazards: N-Methylpyrrolidone (CAS#872-50-4); 2-Butoxyethanol (CAS#111-76-2), Toluene (CAS#108-88-3).  
**STOT - single exposure** Not classified.  
**STOT - repeated exposure** Category 2: Causes damage to organs through prolonged or repeated exposure.  
**Chronic toxicity** 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. Prolonged skin contact may defat the skin and produce dermatitis.  
**Subchronic toxicity** No information available.  
**Target Organ Effects** Kidney, Liver, Spleen, Blood, Bone marrow, Adrenal gland, Thymus, Central nervous system, Testes, Reproductive System.  
**Neurological effects** Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.  
**Other adverse effects** This product contains Trimethylbenzene, N-methyl pyrrolidone. May cause adverse effects on the bone marrow and blood-forming system. Changes in blood picture.  
**Aspiration hazard** May be fatal if swallowed and enters airways.

**Numerical measures of toxicity - Product Information**

**Unknown Acute Toxicity** 2.8 % 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)** 1828 mg/kg  
**ATEmix (dermal)** 1135 mg/kg  
**ATEmix (inhalation-dust/mist)** 1.5 mg/l  
**ATEmix (inhalation-vapor)** 6 mg/l

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

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

37.77 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
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
Naphtha, petroleum, hydrotreated light 64742-49-0				0.26: 48 h Daphnia magna mg/L EC50 Static
Light Aliphatic Solvent Naphtha 64742-89-8	4700: 72 h Pseudokirchneriella subcapitata mg/L EC50			
Distillates (petroleum), light distillate hydrotreating process, low boiling 68410-97-9	1-10: 72h Algae mg/L EC50	1-10: 96h Fish mg/L LC50, 2.6: 14d Fish, mg/L Chronic NOEL		1-10: 48h Daphnia magna mg/L EC50, 2.6: 21d, Daphnia magna, mg/L Chronic NOEL
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
N-Methyl-2-Pyrrolidone 872-50-4	500: 72 h Desmodesmus subspicatus mg/L EC50	832: 96 h Lepomis macrochirus mg/L LC50 static 1400: 96 h Poecilia reticulata mg/L LC50 static 1072: 96 h Pimephales promelas mg/L LC50 static		4897: 48 h Daphnia magna mg/L EC50
2-Butoxyethanol 111-76-2		1490: 96 h Lepomis macrochirus mg/L LC50 static 2950: 96 h Lepomis macrochirus mg/L LC50		1000: 48 h Daphnia magna mg/L EC50
Petroleum distillates, hydrotreated		45: 96 h Pimephales		

light 64742-47-8		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		
Toluene 108-88-3	433: 96 h Pseudokirchneriella subcapitata mg/L EC50 12.5: 72 h Pseudokirchneriella subcapitata mg/L EC50 static	15.22 - 19.05: 96 h Pimephales promelas mg/L LC50 flow-through 12.6: 96 h Pimephales promelas mg/L LC50 static 5.89 - 7.81: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 5.8: 96 h Oncorhynchus mykiss mg/L LC50 semi-static 14.1 - 17.16: 96 h Oncorhynchus mykiss mg/L LC50 static 11.0 - 15.0: 96 h Lepomis macrochirus mg/L LC50 static 50.87 - 70.34: 96 h Poecilia reticulata mg/L LC50 static 54: 96 h Oryzias latipes mg/L LC50 static 28.2: 96 h Poecilia reticulata mg/L LC50 semi-static		5.46 - 9.83: 48 h Daphnia magna mg/L EC50 Static 11.5: 48 h Daphnia magna mg/L EC50
Heptane 142-82-5		375.0: 96 h Cichlid fish mg/L LC50		
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
9-Octadecenoic Acid 112-80-1		205: 96 h Pimephales promelas 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
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
1,3,5-Trimethylbenzene 108-67-8		3.48: 96 h Pimephales promelas mg/L LC50 7.72: 96 h Pimephales promelas mg/L LC50 flow-through		
1,2,3-Trimethylbenzene 526-73-8		7.72: 96 h Pimephales promelas mg/L LC50 flow-through		

**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
Ethylbenzene 100-41-4	2.92
N-Methyl-2-Pyrrolidone 872-50-4	-0.46
2-Butoxyethanol 111-76-2	0.83
Toluene 108-88-3	2.73
9-Octadecenoic Acid 112-80-1	5.24-7.18 (QSAR)
N-Propylbenzene 103-65-1	-0.49

**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)** < 1 Liter

**DOT**

**UN/ID No** UN1993  
**Proper Shipping Name:** Flammable liquids, n.o.s. (Solvent Naphtha, Xylene)  
**Hazard Class** 3  
**Packing Group:** II  
**Emergency Response Guide Number** 128

**IATA**

**UN/ID No** UN1993  
**Proper Shipping Name:** Flammable liquids, n.o.s. (Solvent Naphtha, Xylene)  
**Hazard Class** 3  
**Packing Group:** II

**IMDG**

**UN/ID No** UN1993  
**Proper Shipping Name:** Flammable liquids, n.o.s. (Solvent Naphtha, Xylene)  
**Hazard Class** 3  
**Packing Group:** II



**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 %
Xylene 1330-20-7	1330-20-7	40-50	1.0 % de minimis concentration
Ethylbenzene 100-41-4	100-41-4	5-15	0.1 % de minimis concentration
N-Methyl-2-Pyrrolidone 872-50-4	872-50-4	5-15	1.0 % de minimis concentration
2-Butoxyethanol 111-76-2	111-76-2	5-15	1.0 % de minimis concentration
Toluene 108-88-3	108-88-3	1-6	1.0 % de minimis concentration
1,2,4-Trimethylbenzene 95-63-6	95-63-6	0.1-1	1.0% de minimis concentration
Cumene 98-82-8	98-82-8	0.1-0.6	1.0 % 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
Toluene 108-88-3	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
Light Aliphatic Solvent Naphtha 64742-89-8		16236 lbs.	

Ethylbenzene 100-41-4	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ
Toluene 108-88-3	1000 lb 1 lb		RQ 1000 lb final RQ RQ 454 kg final RQ RQ 1 lb final RQ RQ 0.454 kg final RQ
Cumene 98-82-8	5000 lb		RQ 5000 lb final RQ RQ 2270 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
Ethylbenzene	100-41-4	Carcinogen
N-Methyl-2-Pyrrolidone	872-50-4	Developmental
Toluene	108-88-3	Developmental
Cumene	98-82-8	Carcinogen
Ethylene glycol	107-21-1	Developmental
Benzene	71-43-2	Carcinogen Developmental Male Reproductive
2-Methoxyethanol	109-86-4	Developmental Male Reproductive
Propylene oxide	75-56-9	Carcinogen
Acetaldehyde	75-07-0	Carcinogen
Furan	110-00-9	Carcinogen
Naphthalene	91-20-3	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 3

Instability 0

Physical and Chemical Properties -

**HMIS Rating**

Health hazards 2\*

Flammability 3

Physical hazards 0

Personal protection C

Chronic Hazard Star Legend

\* = Chronic Health Hazard

**Prepared by**

Environmental Health and Safety Department

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12-31-2019

**Revision Note**

The Emergency Overview has changed. SEE SECTION 2. This data sheet contains changes from the previous version in section(s): 2, 3, 4, 11, 15.

**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**