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SAFETY DATA SHEET

Version 1

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

Product identifier

Product Name: INTAKE & VALVE CLEANER

Other means of identification

Common Name: VTP-2010

UN/ID No UN1993

Synonyms None

Product Categories Cleaner, Organic solvents

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 - Oral	Category 4
Acute toxicity - Dermal	Category 4
Acute toxicity - Inhalation (Vapors)	Category 3
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Germ cell mutagenicity	Sub-category 1B
Carcinogenicity	Category 2
Reproductive toxicity	Sub-category 1B
Specific target organ toxicity (repeated exposure)	Category 2
Aspiration toxicity	Category 1
Flammable liquids	Category 3

Label elements

Emergency Overview

Danger

Hazard statements
 Harmful if swallowed
 Harmful in contact with skin
 Toxic if inhaled
 Causes skin irritation
 Causes severe eye irritation
 May cause genetic defects
 Suspected of causing 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
 Flammable liquid and vapor



Appearance Solution, Organic solvents **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
- Wash face, hands and any exposed skin thoroughly after handling
- Do not eat, drink or smoke when using this product
- Use only outdoors or in a well-ventilated area
- Wear eye/face protection
- Do not breathe dust/fume/gas/mist/vapors/spray
- 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
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 CO2, 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	35-50	*
N-Methyl-2-Pyrrolidone	872-50-4	15-25	*
2-Butoxyethanol	111-76-2	15-25	*
Ethylbenzene	100-41-4	5-15	*
Petroleum distillates, hydrotreated light	64742-47-8	5-10	*
Monoalkylaryl alkoxylate aminated	PROPRIETARY	2-6	*
Light Aromatic Solvent Naphtha	64742-95-6	2-6	*
Propoxylated alcohol	TRADE SECRET	1-3	*
1-Propene,2-methyl-, homopolymer, hydroformylation products, reaction products with ammonia	337367-30-3	1-3	*
1,2,4-Trimethylbenzene	95-63-6	1-3	*
N-Propylbenzene	103-65-1	0.5-1.0	*
1,3,5-Trimethylbenzene	108-67-8	0.5-1.0	*
Cumene	98-82-8	0.5-1.0	*
1,2,3-Trimethylbenzene	526-73-8	0.2-1.0	*

*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	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. Thoroughly clean shoes before reuse. Call a POISON CONTROL CENTER or doctor/physician if you feel unwell.
Inhalation	IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing. Call a physician or Poison Control Center.
Eye contact	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.
Ingestion	If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting; contains petroleum distillates and/or aromatic solvents. Call a physician or Poison Control Center immediately.
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	Drowsiness. Dizziness. Headache. Coughing and/ or wheezing; Nausea. Vomiting. Respiratory irritation. Lowered blood pressure, Skin irritation. Eye irritation: redness, stinging and tearing.
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Indication of any immediate medical attention and special treatment needed

Self-protection of the first aider	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 dry chemical, CO2, water spray (fog) or alcohol resistant foam.

Small Fire	Dry chemical or CO2.
Large Fire	Water spray or fog, Alcohol resistant foam.
Explosive properties:	Risk of explosion if heated under confinement: Fire or intense heat may cause violent rupture of packages. May form explosive peroxides. May form explosive mixtures in presence of oxidizing substances (gas/dust).

Specific hazards arising from the chemical

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. May form explosive peroxides. 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, 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:

FLAMMABLE LIQUID AND VAPOR. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. No action shall be taken involving any personal risk without suitable training. Evacuate surrounding areas. Keep exposed containers cool with water spray to prevent rupture. Do not use a solid water stream as it may scatter and spread fire. Use fine water spray to reduce vapors; do not put water directly on point of material release from container. Dike to collect large liquid spills. Do not allow run-off from fire-fighting to enter drains or water courses.

Component	ACGIH - test
Xylene	1.5
1330-20-7 (35-50)	
N-Methyl-2-Pyrrolidone	100
872-50-4 (15-25)	
2-Butoxyethanol	200
111-76-2 (15-25)	
Ethylbenzene	0.15
100-41-4 (5-15)	

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. Ventilate closed spaces before entry. 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. Ventilate the area. Pay attention to flashback. 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. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. 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. Clean-up methods - large spillage: Dike to collect large liquid spills. 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. Keep away from open flames, hot surfaces and sources of

ignition. Do not store at temperatures above 120°F (50°C). Do not get in eyes, on skin, or on clothing. Avoid breathing vapors or mists. Ground/bond container and receiving equipment (if metal). 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: Oxidizing agents, Chlorine, Strong acids, Alkalis, Strong bases.

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 ³	-
N-Methyl-2-Pyrrolidone 872-50-4	-	Not established	-
2-Butoxyethanol 111-76-2	TWA: 20 ppm	TWA: 50 ppm TWA: 240 mg/m ³ TWA: 25 ppm TWA: 120 mg/m ³	IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m 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
Petroleum distillates, hydrotreated light 64742-47-8	-	Not established	-
Monoalkylaryl alkoxylate aminated PROPRIETARY	-	Not established	-
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	-
1,2,4-Trimethylbenzene 95-63-6	TWA: 25 ppm	Not established	TWA: 25 ppm TWA: 125 mg/m ³
N-Propylbenzene 103-65-1	-	Not established	-
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
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

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. 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** 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.

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. Do not breathe dust/fume/gas/mist/vapors/spray. 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

Physical state	Liquid	Odor	Solvent
Appearance	Solution, Organic solvents	Odor threshold	No information available
Color	Clear, Colorless to pale yellow		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	No information available	Not applicable
Melting point/freezing point	No information available	
Boiling point / boiling range	>= 142 °C / 280 °F	(based on components)
Flash point	>= 27 °C / 81 °F	(based on components)
Evaporation rate		
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	No Data Available	Heavier than air
Specific Gravity	0.91	
Water solubility	No Data Available	
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 (%)	
VOC Content (%)	99
Density	0.91 g/cc
Bulk density	No Data Available

10. STABILITY AND REACTIVITY

Reactivity
Reactivity Stable under normal conditions.

Chemical stability
Possibility of Hazardous Reactions May react with oxidizing agents. May form explosive peroxides.
 Hazardous polymerization Hazardous polymerization does not occur.

Conditions to avoid
Heat, flames and sparks. Do not expose to temperatures above 50 °C. Do not distill to dryness

Incompatible materials

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

Hazardous Decomposition Products

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

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 Suspected of causing 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 if inhaled. 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: redness, stinging and tearing. Avoid contact with eyes.
Skin Contact	Harmful in contact with skin. May be absorbed through the skin in harmful amounts. Prolonged skin contact may defat the skin and produce dermatitis. 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
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
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
Petroleum distillates, hydrotreated light 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
Propoxylated alcohol TRADE SECRET	-	-	-
1-Propene,2-methyl-, homopolymer, hydroformylation products, reaction products with ammonia 337367-30-3	-	-	-
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
N-Propylbenzene 103-65-1	-	-	= 65000 ppm (Rat) 2 h
1,3,5-Trimethylbenzene 108-67-8	-	-	= 24 g/m ³ (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	-	-	-

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	Category 2: Substances that cause cancer in animals, and are considered to cause cancer in man. Category 3: Not classifiable as carcinogenic. The table below indicates whether each agency has listed any ingredient as a carcinogen:

Chemical Name	ACGIH	IARC	NTP	OSHA
Xylene 1330-20-7		Group 3		
2-Butoxyethanol 111-76-2		Group 3		
Ethylbenzene 100-41-4		Group 2B		
Cumene 98-82-8		Group 2B	Reasonably Anticipated	

Reproductive toxicity	May cause harm to the unborn child. Experiments have shown reproductive toxicity effects on laboratory animals: N-Methylpyrrolidone (CAS#872-50-4). Causes fetotoxicity in animals at doses which are maternally toxic: 2-Butoxyethanol (CAS#111-76-2).
Teratogenicity	In the presence of slight maternal toxicity, fetotoxic effects have been observed in the offspring of rats exposed by inhalation. Solvent Naphtha, light aromatic (CAS#64742-95-6). May cause harm to the unborn child.
STOT - single exposure	Not classified.
STOT - repeated exposure	Category 2, May cause damage to organs through prolonged or repeated exposure: Eyes, Skin, Central nervous system, Respiratory system.
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, Adrenal gland, Thymus, Central nervous system, Testes, Reproductive System, Blood, Bone marrow, Ears.
Neurological effects	Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.
Other adverse effects	N-Methylpyrrolidone (CAS#872-50-4): May cause adverse effects on the bone marrow and blood-forming system. This product contains trimethylbenzene. Literature data indicate that long-term inhalation exposure causes blood effects in laboratory animals. Xylene, 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	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)	1553 mg/kg
ATEmix (dermal)	1502 mg/kg
ATEmix (inhalation-dust/mist)	2.2 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.

7.1 % 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
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
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
Petroleum distillates, hydrotreated light 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		6.14: 48 h Daphnia magna mg/L EC50

		mg/L LC50 flow-through 7.72: 96 h Pimephales promelas mg/L LC50 flow-through		
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		
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		

Persistence and degradability

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

Bioaccumulation

Bioaccumulative potential.

Mobility

No information available.

Chemical Name	Partition coefficient
Xylene 1330-20-7	3.12-3.2
N-Methyl-2-Pyrrolidone 872-50-4	-0.46
2-Butoxyethanol 111-76-2	0.83
Ethylbenzene 100-41-4	2.92
N-Propylbenzene 103-65-1	-0.49
Cumene 98-82-8	3.55

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

UN1993

Proper Shipping Name: Flammable liquids, n.o.s. (Xylene, Petroleum Distillates)
Hazard Class 3
Packing Group: III
Emergency Response Guide Number 128

IATA

UN/ID No UN1993
Proper Shipping Name: Flammable liquids, n.o.s. (Xylene, Petroleum Distillates)
Hazard Class 3
Packing Group: III

IMDG

UN/ID No UN1993
Proper Shipping Name: Flammable liquids, n.o.s. (Xylene, Petroleum Distillates)
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 %
Xylene 1330-20-7	1330-20-7	35-50	1.0 % de minimis concentration
N-Methyl-2-Pyrrolidone 872-50-4	872-50-4	15-25	1.0 % de minimis concentration
2-Butoxyethanol 111-76-2	111-76-2	15-25	1.0 % de minimis concentration
Ethylbenzene 100-41-4	100-41-4	5-15	0.1 % de minimis concentration
1,2,4-Trimethylbenzene 95-63-6	95-63-6	1-3	1.0% de minimis concentration
Cumene 98-82-8	98-82-8	0.5-1.0	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

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

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Revision Note

Formula. The Emergency Overview has changed. SEE SECTION 2.

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