SAFETY DATA SHEET

Issuing Date 07-May-2015 **Revision Date** 07-May-2018 **Revision Number** 3

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

Product identifier

Product Name **Polar Flow**

Other means of identification

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Fuel additive

Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier Name Enertech Labs, Inc.

Supplier Address Enertech Labs, Inc.
144 Urban st
Buffalo, NY 14211

US

Supplier Phone Number Tel: 716-597-5761
Toll Free:800-759-2080
Fax: 716-328-1766

Supplier Email sales@enertechlabs.com

Emergency telephone number **Chemtrec 800-424-9300**

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

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

GHS Label elements, including precautionary statements

Emergency Overview

Signal word **Danger**

Hazard Statements
Harmful if swallowed
Harmful if inhaled
Causes skin irritation
Causes serious eye irritation
May cause genetic defects
May cause cancer
May cause respiratory irritation
May cause damage to organs through prolonged or repeated exposure
May be fatal if swallowed and enters airways
Combustible liquid

Appearance Amber **Physical state** Liquid **Odor** Sweet

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
Do not breathe dust/fume/gas/mist/vapors/spray
Keep away from heat/sparks/open flames/hot surfaces. - No smoking
Keep cool
Wear eye/face protection

Precautionary Statements - Response
IF exposed or concerned: Get medical advice/attention
Specific treatment (see supplemental first aid instructions on this label)

Eyes
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

Skin
IF ON SKIN: Wash with plenty of soap and water
If skin irritation occurs: Get medical advice/attention
Take off contaminated clothing and wash before reuse

Inhalation
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Ingestion
Rinse mouth
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
Do NOT induce vomiting

Fire
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

Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not applicable

Unknown Toxicity
4.15% of the mixture consists of ingredient(s) of unknown toxicity

Other information

May be harmful in contact with skin
Toxic to aquatic life with long lasting effects
Harmful to aquatic life
PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION
INHALATION MAY CAUSE CENTRAL NERVOUS SYSTEM EFFECTS

Interactions with Other Chemicals
Use of alcoholic beverages may enhance toxic effects.

3. COMPOSITION/INFORMATION ON INGREDIENTS Item 745

.

Chemical Name	CAS No	Weight-%	Trade Secret
butyl cellosolve l	111-76-2	10 - 30	*
Petroleum naphtha, light aromatic	64742-95-6	10 - 30	*
1,2,4 Trimethylbenzene	95-63-6	10 - 30	*
Naphtha (petroleum), heavy aromatic	64742-94-5	10 - 30	*
Xylene	1330-20-7	5 - 10	*
Cumene	98-82-8	1 - 5	*
1,3,5-Trimethylbenzene	108-67-8	1 - 5	*
Diethylbenzene	25340-17-4	1 - 5	*
Ethylene glycol	107-21-1	1 - 5	*
2-Ethylhexanol	104-76-7	1 - 5	*
Naphthalene	91-20-3	1 - 5	*
Ethylbenzene	100-41-4	1 - 5	*
Vinyl acetate	108-05-4	0.1 - 1	*

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

4. FIRST AID MEASURES

First aid measures

General Advice Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists. Do not rub affected area.

Skin contact Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.

Inhalation Remove to fresh air. Get medical attention immediately if symptoms occur. Aspiration into lungs can produce severe lung damage. If breathing has stopped, give artificial respiration. Get medical attention immediately. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur.

Ingestion Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Aspiration hazard if swallowed - can enter lungs and cause damage. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Call a physician or poison control center immediately.

Self-protection of the first aider Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Wear personal protective clothing (see section 8). Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Remove all sources of ignition.

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Most important symptoms and effects, both acute and delayed

Most Important Symptoms and Effects Burning sensation. Coughing and/ or wheezing. Difficulty in breathing. Dizziness.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Dry chemical. Carbon dioxide (CO2). Water spray. Alcohol resistant foam.

Unsuitable extinguishing media
CAUTION: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the chemical
Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray.

Uniform Fire Code Irritant: Liquid
Toxic: Liquid
Combustible Liquid: III-A

Hazardous Combustion Products
Carbon oxides. Carbon monoxide. Carbon dioxide (CO_2).

Explosion Data
Sensitivity to Mechanical Impact No.

Sensitivity to Static Discharge Yes.

Protective equipment and precautions for firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES Item 745

Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Avoid breathing vapors or mists. Avoid generation of dust. Evacuate personnel to safe areas. See section 8 for more information. Take precautionary measures against static discharges. Do not touch or walk through spilled material.

Other Information Refer to protective measures listed in Sections 7 and 8.

Environmental precautions

Environmental precautions Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so. Do not touch or walk through spilled material. Dike far ahead of liquid spill for later disposal.

Methods for cleaning up Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

Precautions for safe handling

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

Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Store locked up. Protect from moisture. Store away from other materials. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Store in accordance with the particular national regulations. Store in accordance with local regulations.

Incompatible Products Strong acids. Strong oxidizing agents. Strong bases. Acid chlorides. Acid anhydrides. Chloroformates. Strong reducing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH

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butyl cellosolve 111-76-2	TWA: 20 ppm	TWA: 50 ppm TWA: 240 mg/m^3 (vacated) TWA: 25 ppm (vacated) TWA: 120 mg/m^3 (vacated) S*	IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m^3
1,2,4 Trimethylbenzene 95-63-6	-	-	TWA: 25 ppm TWA: 125 mg/m^3
Xylene 1330-20-7	STEL: 150 ppm TWA: 100 ppm	TWA: 100 ppm TWA: 435 mg/m^3 (vacated) TWA: 100 ppm (vacated) TWA: 435 mg/m^3 (vacated) STEL: 150 ppm (vacated) STEL: 655 mg/m^3	
Cumene 98-82-8	TWA: 50 ppm	TWA: 50 ppm TWA: 245 mg/m^3 (vacated) TWA: 50 ppm (vacated) TWA: 245 mg/m^3 (vacated) S* S*	IDLH: 900 ppm TWA: 50 ppm TWA: 245 mg/m^3
1,3,5-Trimethylbenzene 108-67-8	-	-	TWA: 25 ppm TWA: 125 mg/m^3
Ethylene glycol 107-21-1	Ceiling: 100 mg/m^3 aerosol only	(vacated) Ceiling: 50 ppm (vacated) Ceiling: 125 mg/m^3	
2-Ethylhexanol 104-76-7	-	-	TWA: 50 ppm TWA: 270 mg/m^3
Naphthalene 91-20-3	TWA: 10 ppm S*	TWA: 10 ppm TWA: 50 mg/m^3 (vacated) TWA: 10 ppm (vacated) TWA: 50 mg/m^3 (vacated) STEL: 15 ppm (vacated) STEL: 75 mg/m^3	IDLH: 250 ppm TWA: 10 ppm TWA: 50 mg/m^3 STEL: 15 ppm STEL: 75 mg/m^3
Ethylbenzene 100-41-4	TWA: 20 ppm	TWA: 100 ppm TWA: 435 mg/m^3 (vacated) TWA: 100 ppm (vacated) TWA: 435 mg/m^3 (vacated) STEL: 125 ppm (vacated) STEL: 545 mg/m^3	IDLH: 800 ppm TWA: 100 ppm TWA: 435 mg/m^3 STEL: 125 ppm STEL: 545 mg/m^3
Vinyl acetate 108-05-4	STEL: 15 ppm TWA: 10 ppm	(vacated) TWA: 10 ppm (vacated) TWA: 30 mg/m^3 (vacated) STEL: 20 ppm (vacated) STEL: 60 mg/m^3	Ceiling: 4 ppm 15 min Ceiling: 15 mg/m^3 15 min

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits Immediately Dangerous to Life or Health

Other Exposure Guidelines Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992) See section 15 for national exposure control parameters

Appropriate engineering controls

Engineering Measures Showers
Eyewash stations
Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/face protection None required for consumer use. If splashes are likely to occur:. Tight sealing safety goggles.

Skin and body protection Wear protective gloves and protective clothing. Long sleeved clothing. Impervious gloves.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Physical state	Liquid		
Appearance	Amber	**Odor**	Sweet
Color	No information available	**Odor Threshold**	No information available

Property	**Values**	**Remarks Method**
pH	UNKNOWN	None known
Melting / freezing point	No data available	None known
Boiling point / boiling range	113 °C / 235 °F	None known
Flash Point	61 C / 142 F	None known
Evaporation Rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		
Upper flammability limit	No data available	
Lower flammability limit	No data available	
Vapor pressure	No data available	None known
Vapor density	No data available	None known
Specific Gravity	No data available	None known
Water Solubility	Slightly soluble	None known
Solubility in other solvents	No data available	None known
Partition coefficient: n-octanol/water	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	4.8	None known
Explosive properties	No data available	
Oxidizing properties	No data available	

Other Information

Softening Point	No data available
VOC Content (%)	No data available
Particle Size	No data available
Particle Size Distribution	

10. STABILITY AND REACTIVITY Item 745

Reactivity

No data available.

Chemical stability
Stable under recommended storage conditions.
Possibility of Hazardous Reactions
None under normal processing.
Hazardous Polymerization
Hazardous polymerization does not occur.

Conditions to avoid
Excessive heat. Heat, flames and sparks.
Incompatible materials
Strong acids. Strong oxidizing agents. Strong bases. Acid chlorides. Acid anhydrides. Chloroformates. Strong reducing agents.
Hazardous Decomposition Products
Carbon oxides. Carbon monoxide. Carbon dioxide (CO2).

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information .

Inhalation Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract. Harmful by inhalation. (based on components). Aspiration into lungs can produce severe lung damage. May cause pulmonary edema. Pulmonary edema can be fatal.

Eye contact Specific test data for the substance or mixture is not available. Expected to be an irritant based on components. Irritating to eyes. May cause redness, itching, and pain. May cause temporary eye irritation. May cause irritation.

Skin contact Specific test data for the substance or mixture is not available. Expected to be an irritant based on components. Irritating to skin. Prolonged contact may cause redness and irritation. Repeated exposure may cause skin dryness or cracking.

Ingestion Specific test data for the substance or mixture is not available. Ingestion may cause irritation to mucous membranes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Harmful if swallowed. (based on components). Potential for aspiration if swallowed. May cause lung damage if swallowed. Aspiration may cause pulmonary edema and pneumonitis. May be fatal if swallowed and enters airways.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
butyl cellosolve 111-76-2	= 470 mg/kg (Rat)	= 220 mg/kg (Rabbit)	= 450 ppm (Rat) 4 h
Petroleum naphtha, light aromatic 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	= 3400 mg/kg (Rat)	> 3160 mg/kg (Rabbit)	= 18 g/m^3 (Rat) 4 h
Naphtha (petroleum), heavy aromatic	> 5000 mg/kg (Rat)	> 2 mL/kg (Rabbit)	> 590 mg/m^3 (Rat) 4 h

64742-94-5			
Xylene 1330-20-7	= 4300 mg/kg (Rat)	> 1700 mg/kg (Rabbit)	= 47635 mg/L (Rat) 4 h = 5000 ppm (Rat) 4 h
Cumene 98-82-8	= 1400 mg/kg (Rat)	= 12300 µL/kg (Rabbit)	-
1,3,5-Trimethylbenzene 108-67-8	-	-	= 24 g/m^3 (Rat) 4 h
Ethylene glycol 107-21-1	= 4000 mg/kg (Rat)	-	-
2-Ethylhexanol 104-76-7	1516 - 2774 mg/kg (Rat)	> 1600 mg/kg (Rat) > 3160 mg/kg (Rabbit)	= 0.237 mg/L (Rat) 4 h
Naphthalene 91-20-3	-	> 20 g/kg (Rabbit)	> 340 mg/m^3 (Rat) 1 h
Ethylbenzene 100-41-4	= 3500 mg/kg (Rat)	= 15354 mg/kg (Rabbit)	= 17.2 mg/L (Rat) 4 h
Vinyl acetate 108-05-4	= 2920 mg/kg (Rat)	= 2320 mg/kg (Rabbit)	= 11400 mg/m^3 (Rat) 4 h = 11.4 mg/L (Rat) 4 h

Information on toxicological effects

Symptoms Erythema (skin redness). May cause redness and tearing of the eyes. Coughing and/ or wheezing. Difficulty in breathing. Asthma-like and/ or skin allergy-like symptoms.

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

Sensitization No information available.

Mutagenic Effects There is no data available for this product. Contains a known or suspected mutagen.

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
butyl cellosolve 111-76-2	A3	Group 3		
Xylene 1330-20-7		Group 3		
Cumene 98-82-8		Group 2B		X
Naphthalene 91-20-3	A3	Group 2B	Reasonably Anticipated	X
Ethylbenzene 100-41-4	A3	Group 2B		X
Vinyl acetate 108-05-4	A3	Group 2B		X

ACGIH (American Conference of Governmental Industrial Hygienists)
A3 - Animal Carcinogen
IARC (International Agency for Research on Cancer)
Group 2B - Possibly Carcinogenic to Humans
Group 3 - Not Classifiable as to Carcinogenicity in Humans
NTP (National Toxicology Program)
Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen
OSHA (Occupational Safety and Health Administration of the US Department of Labor)
X - Present

Reproductive toxicity No information available.

STOT - single exposure Respiratory system.

STOT - repeated exposure Causes damage to organs through prolonged or repeated exposure. Based on classification criteria from the 2012 OSHA Hazard Communication Standard (29 CFR

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1910.1200), this product has been determined to cause systemic target organ toxicity from chronic or repeated exposure. (STOT RE).

Chronic Toxicity Contains a known or suspected mutagen. Possible risk of irreversible effects. Contains a known or suspected carcinogen. Aspiration may cause pulmonary edema and pneumonitis. Avoid repeated exposure. Prolonged exposure may cause chronic effects. May cause adverse effects on the bone marrow and blood-forming system. May cause adverse liver effects.

Target Organ Effects Respiratory system. Eyes. Skin. May affect the genetic material in germ cells (sperm and eggs). Gastrointestinal tract (GI). Blood. Central Nervous System (CNS). Hematopoietic system. Kidney. Liver. Heart. Lungs. Nasal cavities. Thyroid. Central Vascular System (CVS). Testes.

Aspiration Hazard No information available.

Numerical measures of toxicity Product Information

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)
1,560.00 mg/kg
ATEmix (dermal)
3,701.00 mg/kg (ATE)
ATEmix (inhalation-gas)
15,322.00 ppm (4 hr)
ATEmix (inhalation-dust/mist)
3.00 mg/l
ATEmix (inhalation-vapor)
36.00 ATEmix

12. ECOLOGICAL INFORMATION Item 745

Ecotoxicity

Harmful to aquatic life. Toxic to aquatic life with long lasting effects.

Ecotoxicity

Harmful to aquatic life. Toxic to aquatic life with long lasting effects.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
butyl cellosolve 111-76-2		96h LC50: = 1490 mg/L (Lepomis macrochirus) 96h LC50: = 2950 mg/L (Lepomis macrochirus)		48h EC50: > 1000 mg/L 24h EC50: 1698 - 1940 mg/L
Petroleum naphtha, light aromatic 64742-95-6		96h LC50: = 9.22 mg/L (Oncorhynchus mykiss)		48h EC50: = 6.14 mg/L
1,2,4 Trimethylbenzene 95-63-6		96h LC50: 7.19 - 8.28 mg/L (Pimephales promelas)		48h EC50: = 6.14 mg/L
Naphtha (petroleum), heavy aromatic 64742-94-5	72h EC50: = 2.5 mg/L (Skeletonema costatum)	96h LC50: = 19 mg/L (Pimephales promelas) 96h LC50: = 2.34 mg/L (Oncorhynchus mykiss) 96h LC50: = 1740 mg/L (Lepomis macrochirus) 96h LC50: = 45 mg/L (Pimephales promelas) 96h LC50: = 41 mg/L (Pimephales promelas)		48h EC50: = 0.95 mg/L
Xylene 1330-20-7		96h LC50: = 13.4 mg/L (Pimephales promelas) 96h LC50: 2.661 - 4.093 mg/L (Oncorhynchus mykiss) 96h LC50: 13.5 - 17.3 mg/L (Oncorhynchus mykiss) 96h LC50: 13.1 - 16.5 mg/L (Lepomis macrochirus) 96h LC50: = 19 mg/L (Lepomis macrochirus) 96h LC50: 7.711 - 9.591 mg/L (Lepomis macrochirus) 96h LC50: 23.53 - 29.97 mg/L (Pimephales promelas) 96h LC50: = 780 mg/L (Cyprinus carpio) 96h LC50: > 780 mg/L (Cyprinus carpio) 96h LC50: 30.26 - 40.75 mg/L (Poecilia reticulata)	EC50 = 0.0084 mg/L 24 h	48h EC50: = 3.82 mg/L 48h LC50: = 0.6 mg/L
Cumene 98-82-8	72h EC50: = 2.6 mg/L (Pseudokirchneriella subcapitata)	96h LC50: 6.04 - 6.61 mg/L (Pimephales promelas) 96h LC50: = 4.8 mg/L (Oncorhynchus mykiss) 96h LC50: = 2.7 mg/L (Oncorhynchus mykiss) 96h LC50: = 5.1 mg/L (Poecilia reticulata)	EC50 = 0.89 mg/L 5 min EC50 = 1.10 mg/L 15 min EC50 = 1.48 mg/L 30 min EC50 = 172 mg/L 24 h	48h EC50: = 0.6 mg/L 48h EC50: 7.9 - 14.1 mg/L
1,3,5-Trimethylbenzene 108-67-8		96h LC50: = 3.48 mg/L (Pimephales promelas)		24h EC50: = 50 mg/L
Ethylene glycol 107-21-1	96h EC50: 6500 - 13000 mg/L (Pseudokirchneriella subcapitata)	96h LC50: = 41000 mg/L (Oncorhynchus mykiss) 96h LC50: 14 - 18 mL/L (Oncorhynchus mykiss) 96h LC50: = 40761 mg/L (Oncorhynchus mykiss) 96h LC50: = 27540 mg/L (Lepomis macrochirus) 96h LC50: = 16000 mg/L (Poecilia reticulata) 96h LC50: 40000 - 60000 mg/L (Pimephales promelas)	EC50 = 10000 mg/L 16 h EC50 = 620 mg/L 30 min EC50 = 620.0 mg/L 30 min	48h EC50: = 46300 mg/L
2-Ethylhexanol 104-76-7	72h EC50: = 11.5 mg/L (Desmodesmus subspicatus)	96h LC50: > 7.5 mg/L (Oncorhynchus mykiss) 96h LC50: 27 - 29.5 mg/L (Pimephales promelas) 96h LC50: = 29.7 mg/L (Pimephales promelas) 96h LC50: 10.0 - 33.0 mg/L (Lepomis macrochirus) 96h LC50: 32 - 37 mg/L (Oncorhynchus mykiss)		48h EC50: = 39 mg/L
Naphthalene 91-20-3	72h EC50: = 0.4 mg/L (Skeletonema costatum)	96h LC50: 5.74 - 6.44 mg/L (Pimephales promelas) 96h LC50: = 1.6 mg/L (Oncorhynchus mykiss) 96h LC50: 0.91 - 2.82 mg/L (Oncorhynchus mykiss) 96h LC50: = 1.99 mg/L (Pimephales promelas) 96h LC50: = 31.0265 mg/L (Lepomis macrochirus)	EC50 = 0.93 mg/L 30 min EC50 > 20 mg/L 18 h	48h LC50: = 2.16 mg/L 48h EC50: = 1.96 mg/L 48h EC50: 1.09 - 3.4 mg/L
Oleic acid 112-80-1		96h LC50: = 205 mg/L (Pimephales promelas)		
Ethylbenzene 100-41-4	72h EC50: = 4.6 mg/L (Pseudokirchneriella subcapitata) 96h EC50: > 438 mg/L (Pseudokirchneriella subcapitata) 72h EC50: 2.6 - 11.3 mg/L (Pseudokirchneriella subcapitata) 96h EC50: 1.7 - 7.6 mg/L (Pseudokirchneriella subcapitata)	96h LC50: 11.0 - 18.0 mg/L (Oncorhynchus mykiss) 96h LC50: = 4.2 mg/L (Oncorhynchus mykiss) 96h LC50: 7.55 - 11 mg/L (Pimephales promelas) 96h LC50: = 32 mg/L (Lepomis macrochirus) 96h LC50: 9.1 - 15.6 mg/L (Pimephales promelas) 96h LC50: = 9.6 mg/L (Poecilia reticulata)	EC50 = 9.68 mg/L 30 min EC50 = 96 mg/L 24 h	48h EC50: 1.8 - 2.4 mg/L
Vinyl acetate 108-05-4		96h LC50: = 14 mg/L (Pimephales promelas) 96h LC50: 15.04 - 21.54 mg/L (Lepomis macrochirus) 96h LC50: 26.1 - 36.63 mg/L (Poecilia reticulata)	EC50 = 2080 mg/L 5 min	24h EC50: = 52 mg/L

Persistence and Degradability

No information available.

Bioaccumulation

Chemical Name	Log Pow
2-Butoxyethanol 111-76-2	0.81
1,2,4 Trimethylbenzene 95-63-6	3.63
Naphtha (petroleum), heavy aromatic 64742-94-5	6.1
Xylene 1330-20-7	3.15
Cumene 98-82-8	3.55
Ethylene glycol 107-21-1	-1.93
2-Ethylhexanol 104-76-7	3.1
Naphthalene 91-20-3	3.3
Ethylbenzene 100-41-4	3.118
Vinyl acetate 108-05-4	0.73

Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS Item 745

Waste treatment methods

Disposal methods This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

Contaminated Packaging Dispose of contents/containers in accordance with local regulations.

US EPA Waste Number U055 U165 U239

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Xylene 1330-20-7		Included in waste stream: F039		U239
Cumene 98-82-8				U055
Naphthalene 91-20-3	U165	Included in waste streams: F024, F025, F034, F039, K001, K035, K060, K087, K145		U165
Ethylbenzene 100-41-4		Included in waste stream: F039		

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Naphthalene 91-20-3			Toxic waste waste number F025 Waste description: Condensed light ends, spent filters and filter aids, and spent desiccant wastes from the production of certain chlorinated aliphatic hydrocarbons, by free radical catalyzed processes. These chlorinated aliphatic hydrocarbons are those having carbon chain lengths ranging from one to and including five, with varying amounts and positions of chlorine substitution.	

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste
1,2,4 Trimethylbenzene 95-63-6	Toxic
Xylene 1330-20-7	Toxic Ignitable
Cumene 98-82-8	Toxic Ignitable
Naphthalene 91-20-3	Toxic
Ethylbenzene 100-41-4	Toxic Ignitable
Vinyl acetate 108-05-4	Toxic Ignitable

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DOT NOT REGULATED
Proper Shipping Name NON REGULATED
Hazard Class N/A

TDG Not regulated

MEX Not regulated

ICAO Not regulated

IATA Not regulated
Proper Shipping Name NON REGULATED
Hazard Class N/A

IMDG/IMO Not regulated
Hazard Class N/A
Marine Pollutant Product is a marine pollutant according to the criteria set by IMDG/IMO

RID Not regulated

ADR Not regulated

ADN Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA Complies
DSL All components are listed either on the DSL or NDSL.

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

US 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 No	Weight-%	SARA 313 - Threshold Values %
butyl cellosolve - 111-76-2	111-76-2	10 - 30	1.0
1,2,4 Trimethylbenzene - 95-63-6	95-63-6	10 - 30	1.0
Xylene - 1330-20-7	1330-20-7	5 - 10	1.0
Cumene - 98-82-8	98-82-8	1 - 5	1.0
Ethylene glycol - 107-21-1	107-21-1	1 - 5	1.0
Naphthalene - 91-20-3	91-20-3	1 - 5	0.1
Ethylbenzene - 100-41-4	100-41-4	1 - 5	0.1
Vinyl acetate - 108-05-4	108-05-4	0.1 - 1	0.1

SARA 311/312 Hazard Categories
Acute Health Hazard Yes
Chronic Health Hazard Yes

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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
Naphthalene 91-20-3	100 lb	X	X	X
Ethylbenzene 100-41-4	1000 lb	X	X	X
Vinyl acetate 108-05-4	5000 lb			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	Extremely Hazardous Substances RQs	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
Ethylene glycol 107-21-1	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ
Naphthalene 91-20-3	100 lb		RQ 100 lb final RQ RQ 45.4 kg final RQ RQ 0.454 kg final RQ
Ethylbenzene 100-41-4	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ
Vinyl acetate 108-05-4	5000 lb	5000 lb	RQ 5000 lb final RQ RQ 2270 kg final RQ

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals.

Chemical Name	California Proposition 65
Cumene - 98-82-8	Carcinogen
Naphthalene - 91-20-3	Carcinogen
Ethylbenzene - 100-41-4	Carcinogen

U.S. State Right-to-Know Regulations

.

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
butyl cellosolve 111-76-2	X	X	X	X	X
1,2,4 Trimethylbenzene 95-63-6	X	X	X	X	X
Xylene 1330-20-7	X	X	X	X	X
1,3,5-Trimethylbenzene 108-67-8	X	X	X		X
Cumene 98-82-8	X	X	X	X	X

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Diethylbenzene 25340-17-4	X				
Ethylene glycol 107-21-1	X	X	X	X	X
2-Ethylhexanol 104-76-7	X	X	X		
Naphthalene 91-20-3	X	X	X	X	X
Ethylbenzene 100-41-4	X	X	X	X	X
Vinyl acetate 108-05-4	X	X	X	X	X

International Regulations

Mexico

National occupational exposure limits

Component	Carcinogen Status	Exposure Limits
butyl cellosolve 111-76-2 (10 - 30)		Mexico: TWA 26 ppm Mexico: TWA 120 mg/m^3 Mexico: STEL 75 ppm Mexico: STEL 360 mg/m^3
1,2,4 Trimethylbenzene 95-63-6 (10 - 30)		Mexico: TWA 25 ppm Mexico: TWA 125 mg/m^3 Mexico: STEL 35 ppm Mexico: STEL 170 mg/m^3
Xylene 1330-20-7 (5 - 10)		Mexico: TWA 100 ppm Mexico: TWA 435 mg/m^3 Mexico: STEL 150 ppm Mexico: STEL 655 mg/m^3
Cumene 98-82-8 (1 - 5)		Mexico: TWA 50 ppm Mexico: TWA 245 mg/m^3 Mexico: STEL 75 ppm Mexico: STEL 365 mg/m^3
1,3,5-Trimethylbenzene 108-67-8 (1 - 5)		Mexico: TWA 25 ppm Mexico: TWA 125 mg/m^3 Mexico: STEL 35 ppm Mexico: STEL 170 mg/m^3
Ethylene glycol 107-21-1 (1 - 5)		Mexico: Ceiling 100 mg/m^3
Naphthalene 91-20-3 (1 - 5)		Mexico: TWA 10 ppm Mexico: TWA 50 mg/m^3 Mexico: STEL 15 ppm Mexico: STEL 75 mg/m^3
Ethylbenzene 100-41-4 (1 - 5)		Mexico: TWA 100 ppm Mexico: TWA 435 mg/m^3 Mexico: STEL 125 ppm Mexico: STEL 545 mg/m^3
Vinyl acetate 108-05-4 (0.1 - 1)	A3	Mexico: TWA 10 ppm Mexico: TWA 30 mg/m^3 Mexico: STEL 20 ppm Mexico: STEL 60 mg/m^3

Mexico - Occupational Exposure Limits - Carcinogens
A3 - Confirmed Animal Carcinogen

Canada

WHMIS Hazard Class

B3 - Combustible liquid
D2A - Very toxic materials
D2B - Toxic materials

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16. OTHER INFORMATION

NFPA	**Health Hazards**	2	**Flammability**	2	**Instability** 0		**Physical and Chemical Hazards** -
HMIS	**Health Hazards**	2 *	**Flammability**	2	**Physical Hazard**	0	**Personal Protection** X

Chronic Hazard Star Legend * = Chronic Health Hazard

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Disclaimer

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End of Safety Data Sheet