# SAFETY DATA SHEET

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



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

**Product identifier**

**Product Name** **Freeze Flow**

**Other means of identification**

**Product Codes** 8021, 8022, 8023, 8024, 8024t

**Recommended use of the chemical and restrictions on use**

**Recommended Use** Diesel Product

**Uses advised against** No information available

**Details of the supplier of the safety data sheet**

**Supplier Name** Well•Worth Products, Inc.

**Supplier Address** 180 Dutton Ave
Buffalo
NY
14211
US

**Supplier Phone Number** Phone: 800-890-7935
Fax: 716-597-0217
Contact Phone: 716-597-0214

**Supplier Web Site** www.wellworthproducts.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)

| | |
|---|---|
| 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

.

| 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.

**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

**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 |
|---|---|---|---|

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

**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<br>111-76-2 | = 470 mg/kg ( Rat ) | = 220 mg/kg ( Rabbit ) | = 450 ppm ( Rat ) 4 h |
| Petroleum naphtha, light aromatic<br>64742-95-6 | - | > 2000 mg/kg ( Rabbit ) | > 5.2 mg/L ( Rat ) 4 h<br>= 3400 ppm ( Rat ) 4 h |
| 1,2,4 Trimethylbenzene<br>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<br>1330-20-7 | = 4300 mg/kg ( Rat ) | > 1700 mg/kg ( Rabbit ) | = 47635 mg/L ( Rat ) 4 h = 5000 ppm ( Rat ) 4 h |
| Cumene<br>98-82-8 | = 1400 mg/kg ( Rat ) | = 12300 µL/kg ( Rabbit ) | - |
| 1,3,5-Trimethylbenzene<br>108-67-8 | - | - | = 24 g/m$^3$ ( Rat ) 4 h |
| Ethylene glycol<br>107-21-1 | = 4000 mg/kg ( Rat ) | - | - |
| 2-Ethylhexanol<br>104-76-7 | 1516 - 2774 mg/kg ( Rat ) | > 1600 mg/kg ( Rat )<br>> 3160 mg/kg ( Rabbit ) | = 0.237 mg/L ( Rat ) 4 h |
| Naphthalene<br>91-20-3 | - | > 20 g/kg ( Rabbit ) | > 340 mg/m$^3$ ( Rat ) 1 h |
| Ethylbenzene<br>100-41-4 | = 3500 mg/kg ( Rat ) | = 15354 mg/kg ( Rabbit ) | = 17.2 mg/L ( Rat ) 4 h |
| Vinyl acetate<br>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<br>111-76-2 | A3 | Group 3 | | |
| Xylene<br>1330-20-7 | | Group 3 | | |
| Cumene<br>98-82-8 | | Group 2B | | X |
| Naphthalene<br>91-20-3 | A3 | Group 2B | Reasonably Anticipated | X |
| Ethylbenzene<br>100-41-4 | A3 | Group 2B | | X |
| Vinyl acetate<br>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

| | |
|---|---|
| | 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

**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<br>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<br>64742-95-6 | | 96h LC50: = 9.22 mg/L (Oncorhynchus mykiss) | | 48h EC50: = 6.14 mg/L |
| 1,2,4 Trimethylbenzene<br>95-63-6 | | 96h LC50: 7.19 - 8.28 mg/L (Pimephales promelas) | | 48h EC50: = 6.14 mg/L |
| Naphtha (petroleum), heavy aromatic<br>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<br>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<br>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<br>108-67-8 | | 96h LC50: = 3.48 mg/L (Pimephales promelas) | | 24h EC50: = 50 mg/L |
| Ethylene glycol<br>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<br>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 | 72h EC50: = 0.4 mg/L | 96h LC50: 5.74 - 6.44 mg/L | EC50 = 0.93 mg/L 30 min | 48h LC50: = 2.16 mg/L 48h |

## 13. DISPOSAL CONSIDERATIONS

**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<br>1330-20-7 | | Included in waste stream:<br>F039 | | U239 |
| Cumene<br>98-82-8 | | | | U055 |
| Naphthalene<br>91-20-3 | U165 | Included in waste streams:<br>F024, F025, F034, F039, K001, K035, K060, K087, K145 | | U165 |
| Ethylbenzene<br>100-41-4 | | Included in waste stream:<br>F039 | | |

| Chemical Name | RCRA - Halogenated Organic Compounds | RCRA - P Series Wastes | RCRA - F Series Wastes | RCRA - K Series Wastes |
|---|---|---|---|---|
| Naphthalene<br>91-20-3 | | | Toxic waste<br>waste number F025<br>Waste description:<br>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<br>95-63-6 | Toxic |
| Xylene<br>1330-20-7 | Toxic<br>Ignitable |
| Cumene<br>98-82-8 | Toxic<br>Ignitable |
| Naphthalene<br>91-20-3 | Toxic |
| Ethylbenzene<br>100-41-4 | Toxic<br>Ignitable |
| Vinyl acetate<br>108-05-4 | Toxic<br>Ignitable |

## 14. TRANSPORT INFORMATION

**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

| | |
|---|---|
| **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<br>1330-20-7 | 100 lb | | | X |
| Naphthalene<br>91-20-3 | 100 lb | X | X | X |
| Ethylbenzene<br>100-41-4 | 1000 lb | X | X | X |
| Vinyl acetate<br>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<br>1330-20-7 | 100 lb | | RQ 100 lb final RQ<br>RQ 45.4 kg final RQ |
| Cumene<br>98-82-8 | 5000 lb | | RQ 5000 lb final RQ<br>RQ 2270 kg final RQ |
| Ethylene glycol<br>107-21-1 | 5000 lb | | RQ 5000 lb final RQ<br>RQ 2270 kg final RQ |
| Naphthalene<br>91-20-3 | 100 lb | | RQ 100 lb final RQ<br>RQ 45.4 kg final RQ<br>RQ 0.454 kg final RQ |
| Ethylbenzene<br>100-41-4 | 1000 lb | | RQ 1000 lb final RQ<br>RQ 454 kg final RQ |
| Vinyl acetate<br>108-05-4 | 5000 lb | 5000 lb | RQ 5000 lb final RQ<br>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<br>111-76-2 | X | X | X | X | X |
| 1,2,4 Trimethylbenzene<br>95-63-6 | X | X | X | X | X |
| Xylene<br>1330-20-7 | X | X | X | X | X |
| 1,3,5-Trimethylbenzene<br>108-67-8 | X | X | X | | X |
| Cumene<br>98-82-8 | X | X | X | X | X |

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

## International Regulations

### Mexico
### National occupational exposure limits

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

## 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

**Prepared By**
Product Stewardship
23 British American Blvd.
Latham, NY 12110
1-800-572-6501

**Issuing Date** 07-May-2015
**Revision Date** 07-May-2015
**Revision Note** No information available

**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**