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

GHS product identifier

Product Name Dykem Transparent Stain Aerosol - Steel Blue and Steel Red

Other means of identification

Part Number Dk Blue - Steel Blue (80000), Red - Steel Red (80096)
Formula Code Dk Blue - Steel Blue (8703A), Red - Steel Red (8704A)
UN-Number UN1950
Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Staining Colors
Uses advised against No information available

Supplier's details

Initial Supplier ITW Permatex Canada
1-35 Brownridge Road
Halton Hills, ON, L7G 0C6
Canada
Supplier Address ITW PRO BRANDS
805 E. Old 56 Highway
Olathe, KS 66061
TEL: 1-800-443-9536

Emergency telephone number

Emergency Telephone 800-535-5053 Infotrac
Number

2. HAZARDS IDENTIFICATION

Classification

This product is considered hazardous according to the criteria set within the US OSHA Hazard Communication Standard (29 CFR 1910.1200), Canada WHMIS 2015 which includes the amended Hazardous Products Act (HPA) and the Hazardous Products Regulation (HPR), and Mexico’s NMX-R-019-SC-2011.

<table>
<thead>
<tr>
<th>Hazard</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serious Eye Damage/Eye Irritation</td>
<td>Category 1</td>
</tr>
<tr>
<td>Reproductive Toxicity</td>
<td>Category 2</td>
</tr>
</tbody>
</table>
Specific Target Organ Systemic Toxicity (Single Exposure) | Category 3
Flammable aerosols | Category 1
Gases under pressure | Compressed gas

**Label Elements**

**Danger**

![Danger Symbols]

**Hazard Statements**
Causes serious eye damage
Suspected of damaging fertility or the unborn child
May cause drowsiness or dizziness
Extremely flammable aerosol
Contains gas under pressure; may explode if heated

**Physical and Health Hazards Not Otherwise Classified**
Not applicable.

**Precautionary Statements**

**Prevention**
- Wear eye/face protection.
- Avoid breathing dust/fume/gas/mist/vapors/spray.
- Use only outdoors or in a well-ventilated area.
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Use personal protective equipment as required.
- Keep away from heat/sparks/open flames/hot surfaces - No smoking.
- Do not spray on an open flame or other ignition source
- Pressurized container: Do not pierce or burn, even after use.

**General Advice**
- If exposed or concerned: Get medical attention/advice

**Eyes**
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Immediately call a POISON CENTER or doctor/physician.

**Skin**
- None

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

**Ingestion**
- None

**Fire**
- None

**Spills and Leaks**
- None

**Storage**
- Store in a well-ventilated place. Keep container tightly closed.
- Store locked up.
• Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F
• Protect from sunlight

Disposal
• Dispose of contents/container to an approved waste disposal plant.

Other information
Harmful to aquatic life with long lasting effects.

6.7452% of the mixture consists of ingredient(s) of unknown toxicity.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Weight %</th>
<th>Hazardous Material Information Review Act registry number (HMIRA registry #)</th>
<th>Date HMIRA filed and date exemption granted (if applicable)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol</td>
<td>64-17-5</td>
<td>31.74</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>n-Butyl acetate</td>
<td>123-86-4</td>
<td>23.83</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Petroleum gases, liquified, sweetened</td>
<td>68476-86-8</td>
<td>21.4</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>n-Butyl alcohol</td>
<td>71-36-3</td>
<td>8.23</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Diacetone alcohol</td>
<td>123-42-2</td>
<td>2.93</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Isopropyl alcohol</td>
<td>67-63-0</td>
<td>2.66</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>n-Propyl acetate</td>
<td>109-60-4</td>
<td>1.76</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Xanthylium,9-(2-carboxyphenyl)-3,6-bis(diethyl amino)-, hydrogenbis[3-[(4,5-dihydro-3-methyl-5...</td>
<td>84962-27-6</td>
<td>1.47</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Malachite green oxalate</td>
<td>2437-29-8</td>
<td>0.13</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

### 4. FIRST AID MEASURES

**Description of necessary first-aid measures**

**General Advice**
Immediate medical attention is required. Show this safety data sheet to the doctor in attendance. If symptoms persist, call a physician.

**Eye Contact**
Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.

**Skin Contact**
Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If skin irritation persists, call a physician.

**Inhalation**
Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If symptoms persist, call a physician.

**Ingestion**
Rinse mouth. Drink plenty of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician if necessary.

**Protection of First-aiders**
Use personal protective equipment. Remove all sources of ignition.

**Most important symptoms/effects, acute and delayed**

**Most Important Symptoms/Effects**
Serious eye irritation or damage. Drowsiness. Dizziness.

**Indication of immediate medical attention and special treatment needed, if necessary**

**Notes to Physician**
Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES
Suitable Extinguishing Media: Carbon dioxide (CO₂), Foam, Dry chemical, Water fog.

Unsuitable Extinguishing Media: None

Specific Hazards Arising from the Chemical: Flammable. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapors may travel to source of ignition and flash back. Ruptured cylinders may rocket.

Explosion Data
- Sensitivity to Mechanical Impact: Yes.
- 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. Use water spray to cool surrounding containers.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Remove all sources of ignition. Evacuate personnel to safe areas. Ensure adequate ventilation. Use personal protective equipment. Keep people away from and upwind of spill/leak. Contents under pressure. Take precautionary measures against static discharges.

Environmental Precautions: 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. Should not be released into the environment. See Section 12 for additional Ecological Information.

Methods and materials for containment and cleaning up

Methods for Containment: Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up: Ground and bond containers when transferring material. Small spillage: Take up with sand or other noncombustible absorbent material and place into containers for later disposal. Large spillage: Pump or vacuum transfer spilled product to clean containers for recovery. Absorb unrecoverable product.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling: Contents under pressure. Ensure adequate ventilation. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. Use only in an area containing flame proof equipment. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product. Use only in area provided with appropriate exhaust ventilation. Wear personal protective equipment. Do not breathe vapors or spray mist.

Conditions for safe storage, including any incompatibilities


8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters
### Exposure Guidelines

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol</td>
<td>STEL: 1000 ppm TWA: 1000 ppm</td>
<td>TWA: 1900 mg/m³ (vacated) TWA: 1000 ppm (vacated) TWA: 1900 mg/m³</td>
<td>IDLH: 3300 ppm 10% LEL TWA: 1000 ppm TWA: 1900 mg/m³</td>
</tr>
<tr>
<td>n-Butyl acetate 123-86-4</td>
<td>STEL: 150 ppm TWA: 50 ppm</td>
<td>TWA: 150 ppm (vacated) TWA: 150 ppm (vacated) TWA: 710 mg/m³ (vacated) STEL: 200 ppm (vacated) STEL: 950 mg/m³</td>
<td>IDLH: 1700 ppm TWA: 150 ppm TWA: 710 mg/m³ STEL: 200 ppm STEL: 950 mg/m³</td>
</tr>
<tr>
<td>n-Butyl alcohol 71-36-3</td>
<td>TWA: 20 ppm</td>
<td>TWA: 100 ppm (vacated) S* (vacated) Ceiling: 50 ppm (vacated) Ceiling: 150 mg/m³</td>
<td>IDLH: 1400 ppm Ceiling: 50 ppm Ceiling: 150 mg/m³</td>
</tr>
<tr>
<td>Diacetone alcohol 123-42-2</td>
<td>TWA: 50 ppm</td>
<td>TWA: 50 ppm (vacated) TWA: 50 ppm (vacated) TWA: 240 mg/m³</td>
<td>IDLH: 1800 ppm TWA: 50 ppm TWA: 240 mg/m³</td>
</tr>
<tr>
<td>Isopropyl alcohol 67-63-0</td>
<td>STEL: 400 ppm TWA: 200 ppm</td>
<td>TWA: 400 ppm (vacated) TWA: 400 ppm (vacated) TWA: 980 mg/m³ (vacated) STEL: 500 ppm (vacated) STEL: 1225 mg/m³</td>
<td>IDLH: 2000 ppm 10% LEL TWA: 980 mg/m³ TWA: 400 ppm STEL: 500 ppm STEL: 1225 mg/m³</td>
</tr>
<tr>
<td>n-Propyl acetate 109-60-4</td>
<td>STEL: 250 ppm TWA: 200 ppm</td>
<td>TWA: 200 ppm (vacated) TWA: 200 ppm (vacated) TWA: 840 mg/m³ (vacated) STEL: 200 ppm (vacated) STEL: 1050 mg/m³</td>
<td>IDLH: 1700 ppm TWA: 200 ppm TWA: 840 mg/m³ STEL: 250 ppm STEL: 1050 mg/m³</td>
</tr>
<tr>
<td>Xanthylium,9-([2-carboxyphenyl]-3,6-bis(diethyl amino)-, hydrogenbis[3-[(4,5-dihydro-3-methyl-5-... 84962-27-6</td>
<td>-</td>
<td>TWA: 0.5 mg/m³ Cr (vacated) TWA: 0.5 mg/m³ Cr (vacated) Ceiling: 0.1 mg/m³ Cr Ceiling: 0.1 mg/m³ CrO3 applies to any operations or sectors for which the Hexavalent Chromium standard [29 CFR 1910.1026] is stayed or is otherwise not in effect</td>
<td>IDLH: 15 mg/m³ Cr(VI) IDLH: 25 mg/m³ Cr(III) TWA: 0.0002 mg/m³ Cr TWA: 0.5 mg/m³ Cr</td>
</tr>
</tbody>
</table>

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

### Other Exposure Guidelines

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

### Appropriate engineering controls

**Engineering Measures**
- Showers
- Eyewash stations
- Ventilation systems

### Individual protection measures, such as personal protective equipment

**Eye/Face Protection**
No special protective equipment required. Avoid contact with eyes. Risk of contact, wear: Chemical splash goggles.

**Skin and Body Protection**
Chemical resistant gloves.

**Respiratory Protection**
None required under normal usage. If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.

**Hygiene Measures**
When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing.

### 9. PHYSICAL AND CHEMICAL PROPERTIES
Information on basic physical and chemical properties


Odor  Sweet, Solvent.  Odor Threshold  No information available.

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks/ - Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Melting Point/Range</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Boiling Point/Boiling Range</td>
<td>76.667-125 °C / 170-257 °F</td>
<td>None known</td>
</tr>
<tr>
<td>Flash Point</td>
<td>11.667 °C / 53 °F</td>
<td>None known</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>&lt; 1 (BuAc = 1)</td>
<td>BuAc = 1</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Flammability Limits in Air</td>
<td></td>
<td></td>
</tr>
<tr>
<td>upper flammability limit</td>
<td>No data available</td>
<td>19.0</td>
</tr>
<tr>
<td>lower flammability limit</td>
<td>No data available</td>
<td>1.40</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>&gt; 1 (air = 1)</td>
<td>None known</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>Negligible</td>
<td>None known</td>
</tr>
<tr>
<td>Solubility in other solvents</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No data available</td>
<td>None known</td>
</tr>
</tbody>
</table>

Flammable Properties  EXTREMELY FLAMMABLE

Explosive Properties  No data available

Oxidizing Properties  No data available

Other information

VOC Content (%)  8703A Dk Blue/Steel Blue: 95.59%
                 8704A Red/Steel Red: 93.89%

VOC (g/L)  8703A Dk Blue/Steel Blue: 808 g/L
          8704A Red/Steel Red: 797 g/L

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  Heat, flames and sparks. Incompatible products.


11. TOXICOCLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation  Inhalation of vapors in high concentration may cause irritation of respiratory system. May cause drowsiness and dizziness. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal.
Eye Contact
Causes serious eye damage.

Skin Contact
Causes mild skin irritation. Repeated exposure may cause skin dryness or cracking.

Ingestion
Not an expected route of exposure. May be harmful if swallowed. Ingestion may cause nausea and vomiting.

Numerical measures of toxicity - Product
Unknown acute toxicity
6.7452% of the mixture consists of ingredient(s) of unknown toxicity.

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

LD50 Oral
5070 mg/kg; Acute toxicity estimate

LD50 Dermal
35146 mg/kg; Acute toxicity estimate

Inhalation
dust/mist
63.6 mg/L; Acute toxicity estimate

Vapor
258.3 mg/L; Acute toxicity estimate

Chemical Name | LD50 Oral | LD50 Dermal | LC50 Inhalation
--- | --- | --- | ---
Ethanol | = 7060 mg/kg (Rat) | - | = 124.7 mg/L (Rat) 4 h
n-Butyl acetate | = 10768 mg/kg (Rat) | > 17600 mg/kg (Rabbit) | = 390 ppm (Rat) 4 h
n-Butyl alcohol | = 790 mg/kg (Rat) = 700 mg/kg (Rat) | = 3400 mg/kg (Rabbit) = 3402 mg/kg (Rabbit) | > 8000 ppm (Rat) 4 h
Diacetone alcohol | > 4 g/kg (Rat) | = 13630 mg/kg (Rabbit) = 13500 mg/kg (Rabbit) | > 7.23 g/m³ (Rat) 8 h
Nitrocellulose | > 5 g/kg (Rat) | - | -
Isopropyl alcohol | = 1870 mg/kg (Rat) | 12800 mg/kg (Rat) 12870 mg/kg (Rabbit) | 72.6 mg/L (Rat) 4 h
n-Propyl acetate | = 8700 mg/kg (Rat) | > 17756 mg/kg (Rabbit) | -
Malachite green oxalate | = 275 mg/kg (Rat) | - | -

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms
No information available.

Delayed and immediate effects and also chronic effects from short and long term exposure

Respiratory or Skin Sensitization
No information available.

Germ Cell Mutagenicity
No information available.

Carcinogenicity
Ethanol has been shown to be carcinogenic in long-term studies only when consumed and abused as an alcoholic beverage. The table below indicates whether each agency has listed any ingredient as a carcinogen.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol</td>
<td>A3</td>
<td>Group 1</td>
<td>Known</td>
<td>X</td>
</tr>
<tr>
<td>Isopropyl alcohol</td>
<td>Group 3</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Xanthylium,9-(2-carboxyphe nyl)-3,6-bis(diethyl amino)-, hydrogenbis[3-[(4,5-dihydro-3-methyl-5-...</td>
<td>Group 3</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

ACGIH: (American Conference of Governmental Industrial Hygienists)
A3 - Animal Carcinogen

IARC: (International Agency for Research on Cancer)
Group 1 - Carcinogenic to Humans
Group 3 - Not Classifiable as to its Carcinogenicity to Humans

NTP: (National Toxiciity Program)
Known - Known Carcinogen

OSHA: (Occupational Safety & Health Administration)
X - Present

Reproductive Toxicity
Contains a known or suspected reproductive toxin. May damage fertility or the unborn child

STOT - single exposure
No information available.
STOT - repeated exposure
Chronic Toxicity
No information available.
Ethanol has been shown to be carcinogenic in long-term studies only when consumed as alcoholic beverage.

Target Organ Effects
Respiratory system. Eyes. Skin. Central nervous system (CNS).

Aspiration Hazard
No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity
Harmful to aquatic life with long lasting effects.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Toxicity to Algae</th>
<th>Toxicity to Fish</th>
<th>Toxicity to Microorganisms</th>
<th>Daphnia Magna (Water Flea)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol</td>
<td>LC50 96 h: 12.0 - 16.0 mL/L</td>
<td>EC50 = 34634 mg/L 30 min</td>
<td>LC50 48 h: 9268 - 14221 mg/L (Daphnia magna)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>static (Oncorhynchus mykiss)</td>
<td>EC50 = 35470 mg/L 5 min</td>
<td>EC50 24 h: 10800 mg/L (Daphnia magna) EC50 48 h: 2 mg/L Static (Daphnia magna)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LC50 96 h: 13400 - 15100 mg/L flow-through (Pimephales promelas)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>LC50 96 h: &gt; 100 mg/L static</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>n-Butyl acetate 123-86-4</td>
<td>EC50 72 h: 674.7 mg/L (Desmodesmus subspicatus)</td>
<td>LC50 96 h: 17 - 19 mg/L flow-through (Pimephales promelas) LC50 96 h: = 100 mg/L static (Lepomis macrochirus) LC50 96 h: = 62 mg/L static (Leuciscus dace)</td>
<td>EC50 = 70.0 mg/L 5 min EC50 = 82.2 mg/L 15 min EC50 = 959 mg/L 18 h EC50 = 98.9 mg/L 30 min</td>
<td>EC50 24 h: 72.8 mg/L (Daphnia magna)</td>
</tr>
<tr>
<td>n-Butyl alcohol 71-36-3</td>
<td>EC50 72 h: &gt; 500 mg/L (Desmodesmus subspicatus) EC50 96 h: &gt; 500 mg/L (Desmodesmus subspicatus)</td>
<td>LC50 96 h: 100000 - 500000 µg/L static (Lepomis macrochirus) LC50 96 h: 1730 - 1910 mg/L static (Pimephales promelas) LC50 96 h: &gt; 1910000 µg/L Static (Pimephales promelas)</td>
<td>EC50 = 2041.4 mg/L 5 min EC50 = 2186 mg/L 30 min EC50 = 3980 mg/L 24 h EC50 = 4400 mg/L 17 h</td>
<td>EC50 48 h: 1897 - 2072 mg/L Static (Daphnia magna) EC50 48 h: 1983 mg/L (Daphnia magna)</td>
</tr>
<tr>
<td>Diacetone alcohol 123-42-2</td>
<td>LC50 96 h: 420 mg/L (Lepomis macrochirus) LC50 96 h: 420 mg/L static (Lepomis macrochirus)</td>
<td></td>
<td></td>
<td>EC50 24 h: 8750 mg/L (Daphnia magna)</td>
</tr>
<tr>
<td>Isopropyl alcohol 67-63-0</td>
<td>EC50 72 h: &gt; 1000 mg/L (Desmodesmus subspicatus) EC50 96 h: &gt; 1000 mg/L (Desmodesmus subspicatus)</td>
<td>LC50 96 h: 11130 mg/L static (Pimephales promelas) LC50 96 h: 9640 mg/L flow-through (Pimephales promelas) LC50 96 h: &gt; 1400000 µg/L (Lepomis macrochirus)</td>
<td></td>
<td>EC50 48 h: 13299 mg/L (Daphnia magna)</td>
</tr>
<tr>
<td>n-Propyl acetate 109-60-4</td>
<td>LC50 96 h: 56 - 64 mg/L flow-through (Pimephales promelas) LC50 96 h: 56 - 64 mg/L static (Pimephales promelas)</td>
<td></td>
<td></td>
<td>EC50 24 h: 318 mg/L (Daphnia magna)</td>
</tr>
</tbody>
</table>

Persistence and Degradability
No information available.

Bioaccumulation

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Log Pow</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol</td>
<td>-0.32</td>
</tr>
<tr>
<td>n-Butyl acetate</td>
<td>1.81</td>
</tr>
<tr>
<td>Petroleum gases, liquified, sweetened</td>
<td>2.8</td>
</tr>
<tr>
<td>n-Butyl alcohol</td>
<td>0.785</td>
</tr>
<tr>
<td>Diacetone alcohol</td>
<td>1.03</td>
</tr>
<tr>
<td>Isopropyl alcohol</td>
<td>0.05</td>
</tr>
</tbody>
</table>
Mobility
No information available.

Other Adverse Effects
No information available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods
Dispose of in accordance with local/regional/national regulations.

Contaminated Packaging
Do not re-use empty containers.

US EPA Waste Number
U031

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>RCRA</th>
<th>RCRA - Basis for Listing</th>
<th>RCRA - D Series Wastes</th>
<th>RCRA - U Series Wastes</th>
</tr>
</thead>
<tbody>
<tr>
<td>n-Butyl alcohol - 71-36-3</td>
<td></td>
<td>Included in waste stream:</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>F039</td>
<td></td>
<td>U031</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>California Hazardous Waste</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol</td>
<td>Toxic</td>
</tr>
<tr>
<td></td>
<td>Ignitable</td>
</tr>
<tr>
<td>n-Butyl acetate</td>
<td>Toxic</td>
</tr>
<tr>
<td>n-Butyl alcohol</td>
<td>Toxic</td>
</tr>
<tr>
<td>Isopropyl alcohol</td>
<td>Toxic</td>
</tr>
<tr>
<td></td>
<td>Ignitable</td>
</tr>
<tr>
<td>n-Propyl acetate</td>
<td>Toxic</td>
</tr>
<tr>
<td></td>
<td>Ignitable</td>
</tr>
<tr>
<td>Xanthylithium, 9-(2-carboxyphenyl)-3,6-bis(diethyl amino)-,</td>
<td>Toxic</td>
</tr>
<tr>
<td>hydrogenbis[3-[(4,5-dihydro-3-methyl-5-...</td>
<td>Corrosive</td>
</tr>
<tr>
<td></td>
<td>Ignitable</td>
</tr>
</tbody>
</table>

14. TRANSPORT INFORMATION

DOT
UN-Number UN1950
Proper shipping name Aerosols
Hazard Class 2.1
Description UN1950, Aerosols, 2.1
Emergency Response Guide Number 126

TDG
UN-Number UN1950
Proper Shipping Name Aerosols
Hazard Class 2.1
Description UN1950, Aerosols, 2.1

MEX
UN-Number UN1950
Proper Shipping Name Aerosols
Hazard Class 2.1
Description UN1950, Aerosols, 2.1

IATA
UN-Number UN1950
Proper Shipping Name Aerosols, flammable
Hazard Class 2.1
ERG Code 10L
Description UN1950, Aerosols, flammable, 2.1

IMDG/IMO
UN-Number UN1950
Proper Shipping Name Aerosols
Hazard Class 2
Subsidiary Class See SP63
15. REGULATORY INFORMATION

International Regulations

Ozone depleting substances  
Persistent Organic Pollutants  
Hazardous Waste  

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Basel Convention (Hazardous Wastes)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol</td>
<td>Y42</td>
</tr>
<tr>
<td>Isopropyl alcohol</td>
<td>Y42</td>
</tr>
<tr>
<td>The Rotterdam Convention (Prior Informed Consent)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>International Convention for the Prevention of Pollution from Ships (MARPOL)</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

International Inventories

TSCA  
Complies

DSL  
Not determined

Legend

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

U.S. Federal Regulations

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:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Weight %</th>
<th>SARA 313 - Threshold Values %</th>
</tr>
</thead>
<tbody>
<tr>
<td>n-Butyl alcohol</td>
<td>71-36-3</td>
<td>8.23</td>
<td>1.0</td>
</tr>
<tr>
<td>Isopropyl alcohol</td>
<td>67-63-0</td>
<td>2.66</td>
<td>1.0</td>
</tr>
<tr>
<td>Xanthylum.9-(2-carboxyphenyl)-3,6-bis(diethyl amino)-, hydrogenbis[3-[(4,5-dihydro-3-methyl-5...</td>
<td>84962-27-6</td>
<td>1.47</td>
<td>1.0</td>
</tr>
</tbody>
</table>

SARA 311/312 Hazard Categories

- Acute Health Hazard  
- Chronic Health Hazard  
- Fire Hazard  
- Sudden Release of Pressure Hazard  
- Reactive Hazard

Yes  
Yes  
Yes  
Yes  
No

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):

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CWA - Reportable Quantities</th>
<th>CWA - Toxic Pollutants</th>
<th>CWA - Priority Pollutants</th>
<th>CWA - Hazardous Substances</th>
</tr>
</thead>
<tbody>
<tr>
<td>n-Butyl acetate</td>
<td>5000 lb</td>
<td></td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Xanthylum.9-(2-carboxyphenyl)-3,6-bis(diethyl amino)-, hydrogenbis[3-[(4,5-dihydro-3-methyl-5...</td>
<td></td>
<td>X</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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):

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Hazardous Substances RQs</th>
<th>Extremely Hazardous Substances RQs</th>
<th>RQ</th>
</tr>
</thead>
<tbody>
<tr>
<td>n-Butyl acetate</td>
<td>5000 lb</td>
<td></td>
<td>RQ 5000 lb final RQ</td>
</tr>
<tr>
<td>n-Butyl alcohol</td>
<td>5000 lb</td>
<td></td>
<td>RQ 2270 kg final RQ</td>
</tr>
<tr>
<td>n-Butyl alcohol</td>
<td>5000 lb</td>
<td></td>
<td>RQ 5000 lb final RQ</td>
</tr>
</tbody>
</table>
U.S. State Regulations

California Proposition 65
This product contains the following Proposition 65 chemicals: Ethyl alcohol is only considered a Proposition 65 developmental hazard when it is ingested as an alcoholic beverage.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>California Prop. 65</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol</td>
<td>64-17-5</td>
<td>Developmental</td>
</tr>
<tr>
<td>Michler’s ketone</td>
<td>90-94-8</td>
<td>Carcinogen</td>
</tr>
</tbody>
</table>

U.S. State Right-to-Know Regulations

"X" designates that the ingredients are listed on the state right to know list.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>New Jersey</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
<th>Illinois</th>
<th>Rhode Island</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>n-Butyl acetate</td>
<td></td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>n-Butyl alcohol</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Diacetone alcohol</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Isopropyl alcohol</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>n-Propyl acetate</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

U.S. EPA Label Information
EPA Pesticide Registration Number  Not applicable

16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health Hazard</th>
<th>Flammability</th>
<th>Instability</th>
<th>Physical and Chemical Hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3</td>
<td>4</td>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HMIS</th>
<th>Health Hazard</th>
<th>Flammability</th>
<th>Physical Hazard</th>
<th>Personal Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3*</td>
<td>4</td>
<td>0</td>
<td>X</td>
</tr>
</tbody>
</table>

*Indicates a chronic health hazard.

Prepared By  Product Stewardship
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Latham, NY 12110
1-800-572-6501

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Revision Note  Initial Release.

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End of Safety Data Sheet