1. IDENTIFICATION

Product identifier
Product Name: Base Coat Reducer - Medium

Other means of identification
Product Code: ABR-0510-1
UN/ID no.: UN1263
SKU(s): ABR-0510-1, ABR-0510-5

Recommended use of the chemical and restrictions on use
Recommended Use: No information available.
Uses advised against: No information available

Details of the supplier of the safety data sheet
Supplier Address: Vogel Automotive Coatings
1020 Albany Place SE
Orange City, IA 51041
Phone: 712-737-4993
Fax: 712-737-4997

Emergency telephone number
Emergency Telephone: Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

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

<table>
<thead>
<tr>
<th>Hazard</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin corrosion/irritation</td>
<td>Category 2</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>Category 2</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>Category 1B</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Category 1B</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>Category 2</td>
</tr>
<tr>
<td>Specific target organ toxicity (single exposure)</td>
<td>Category 3</td>
</tr>
<tr>
<td>Specific target organ toxicity (repeated exposure)</td>
<td>Category 2</td>
</tr>
<tr>
<td>Aspiration toxicity</td>
<td>Category 1</td>
</tr>
<tr>
<td>Flammable liquids</td>
<td>Category 2</td>
</tr>
</tbody>
</table>

Emergency Overview

Hazard statements
Causes skin irritation
Causes serious eye irritation
May cause genetic defects
May cause cancer
Suspected of damaging fertility or the unborn child
May cause drowsiness or dizziness
May cause damage to organs through prolonged or repeated exposure
May be fatal if swallowed and enters airways
Highly flammable liquid and vapor
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
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 container tightly closed
Ground/bond container and receiving equipment
Use only non-sparking tools
Take precautionary measures against static discharge
Keep cool
Use explosion-proof electrical/ventilating/lighting/equipment

Precautionary Statements - Response
IF exposed or concerned: Get medical advice/attention
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
If skin irritation occurs: Get medical advice/attention
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
Wash contaminated clothing before reuse
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
Do NOT induce vomiting
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)
Other Information
• Harmful to aquatic life with long lasting effects
• Harmful to aquatic life
Unknown acute toxicity 2.12% of the mixture consists of ingredient(s) of unknown toxicity

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>Weight-%</th>
<th>Trade Secret</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl Ethyl Ketone</td>
<td>78-93-3</td>
<td>10 - 30</td>
<td>*</td>
</tr>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>10 - 30</td>
<td>*</td>
</tr>
<tr>
<td>Aromatic 100</td>
<td>64742-95-6</td>
<td>7 - 13</td>
<td>*</td>
</tr>
<tr>
<td>Ethyl Acetate</td>
<td>141-78-6</td>
<td>7 - 13</td>
<td>*</td>
</tr>
<tr>
<td>Butyl Acetate</td>
<td>123-86-4</td>
<td>3 - 7</td>
<td>*</td>
</tr>
</tbody>
</table>

3. COMPOSITION/INFORMATION ON INGREDIENTS
4. FIRST AID MEASURES

Description of first aid measures

General advice
Immediate medical attention is required. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). 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. Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

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

Inhalation
Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Call a physician immediately. Move to fresh air in case of accidental inhalation of vapors.

Ingestion
Do NOT induce vomiting. Rinse mouth. If symptoms persist, call a physician. Drink 1 or 2 glasses of water. Never give anything by mouth to an unconscious person. Clean mouth with water and drink afterwards plenty of water. Call a physician.

Self-protection of the first aider
Remove all sources of ignition. Use personal protective equipment as required.

Most important symptoms and effects, both acute and delayed

Symptoms
No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians
Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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

Specific hazards arising from the chemical
Extremely flammable.

Explosion data
Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge None.

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
Remove all sources of ignition. Evacuate personnel to safe areas. Ensure adequate ventilation, especially in confined areas. Use personal protective equipment as required. Keep people away from and upwind of spill/leak.

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. See Section 12 for additional ecological information.

Methods and material for containment and cleaning up

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

Methods for cleaning up
Pick up and transfer to properly labeled containers. Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Cover liquid spill with sand, earth or other non-combustible absorbent material. Soak up with inert absorbent material.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling
Ensure adequate ventilation, especially in confined areas. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Take precautionary measures against static discharges. Use spark-proof tools and explosion-proof equipment. All equipment used when handling the product must be grounded. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Use with local exhaust ventilation. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray.

Conditions for safe storage, including any incompatibilities

Storage Conditions
Keep tightly closed in a dry and cool place. Keep in properly labeled containers. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep containers tightly closed in a cool, well-ventilated place.

Incompatible materials
Strong oxidizing agents. Strong acids. Chlorinated compounds.

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>Methyl Ethyl Ketone</td>
<td>STEL: 300 ppm</td>
<td>TWA: 200 ppm</td>
<td>IDLH: 3000 ppm</td>
</tr>
<tr>
<td>78-93-3</td>
<td>TWA: 200 ppm</td>
<td>TWA: 590 mg/m³</td>
<td>TWA: 200 ppm</td>
</tr>
<tr>
<td></td>
<td>(vacated) TWA: 200 ppm</td>
<td>(vacated) TWA: 590 mg/m³</td>
<td>TWA: 590 mg/m³</td>
</tr>
<tr>
<td></td>
<td>(vacated) STEL: 300 ppm</td>
<td>(vacated) STEL: 590 mg/m³</td>
<td>STEL: 300 ppm</td>
</tr>
<tr>
<td></td>
<td>(vacated) STEL: 885 mg/m³</td>
<td></td>
<td>STEL: 885 mg/m³</td>
</tr>
<tr>
<td>Toluene</td>
<td>TWA: 20 ppm</td>
<td>(vacated) TWA: 100 ppm</td>
<td>IDLH: 500 ppm</td>
</tr>
<tr>
<td>108-88-3</td>
<td>(vacated) TWA: 375 mg/m³</td>
<td>(vacated) TWA: 590 mg/m³</td>
<td>TWA: 100 ppm</td>
</tr>
<tr>
<td></td>
<td>(vacated) STEL: 150 ppm</td>
<td>(vacated) STEL: 590 mg/m³</td>
<td>TWA: 375 mg/m³</td>
</tr>
<tr>
<td></td>
<td>(vacated) STEL: 560 mg/m³</td>
<td>Ceiling: 300 ppm</td>
<td>TWA: 150 ppm</td>
</tr>
<tr>
<td>Ethyl Acetate</td>
<td>TWA: 400 ppm</td>
<td>(vacated) TWA: 400 ppm</td>
<td>IDLH: 2000 ppm</td>
</tr>
<tr>
<td>141-78-6</td>
<td>TWA: 1400 mg/m³</td>
<td>(vacated) TWA: 1400 mg/m³</td>
<td>TWA: 400 ppm</td>
</tr>
<tr>
<td></td>
<td>(vacated) TWA: 1400 mg/m³</td>
<td></td>
<td>TWA: 1400 mg/m³</td>
</tr>
</tbody>
</table>

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<table>
<thead>
<tr>
<th>Compound</th>
<th>STEL: 200 ppm</th>
<th>TWA: 150 ppm</th>
<th>IDLH: 1700 ppm</th>
<th>STEL: 710 ppm</th>
<th>TWA: 710 mg/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butyl Acetate 123-86-4</td>
<td></td>
<td>TWA: 150 ppm</td>
<td></td>
<td>TWA: 150 ppm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(vacated) TWA: 150 ppm</td>
<td>(vacated) STEL: 200 ppm</td>
<td></td>
<td>(vacated) TWA: 710 mg/m³</td>
<td>(vacated) STEL: 950 mg/m³</td>
</tr>
<tr>
<td>Methyl Isobutyl Ketone 108-10-1</td>
<td>STEL: 75 ppm</td>
<td>TWA: 20 ppm</td>
<td>IDLH: 500 ppm</td>
<td>TWA: 50 ppm</td>
<td>TWA: 205 mg/m³</td>
</tr>
<tr>
<td></td>
<td>(vacated) STEL: 300 mg/m³</td>
<td>(vacated) TWA: 450 mg/m³</td>
<td></td>
<td>(vacated) STEL: 75 ppm</td>
<td>(vacated) STEL: 300 mg/m³</td>
</tr>
<tr>
<td>1,2,4-Trimethylbenzene 95-63-6</td>
<td>-</td>
<td>-</td>
<td>TWA: 25 ppm</td>
<td>TWA: 125 mg/m³</td>
<td>-</td>
</tr>
<tr>
<td>Xylene 1330-20-7</td>
<td>STEL: 150 ppm</td>
<td>TWA: 100 ppm</td>
<td>IDLH: 800 ppm</td>
<td>TWA: 100 ppm</td>
<td>TWA: 435 mg/m³</td>
</tr>
<tr>
<td></td>
<td>(vacated) TWA: 100 ppm</td>
<td>(vacated) STEL: 150 ppm</td>
<td></td>
<td>(vacated) TWA: 435 mg/m³</td>
<td>(vacated) STEL: 655 mg/m³</td>
</tr>
<tr>
<td>Ethyl Benzene 100-41-4</td>
<td>TWA: 20 ppm</td>
<td>TWA: 100 ppm</td>
<td>IDLH: 900 ppm</td>
<td>TWA: 50 ppm</td>
<td>TWA: 245 mg/m³</td>
</tr>
<tr>
<td></td>
<td>(vacated) TWA: 100 ppm</td>
<td>(vacated) STEL: 125 ppm</td>
<td></td>
<td>(vacated) TWA: 435 mg/m³</td>
<td>(vacated) STEL: 545 mg/m³</td>
</tr>
<tr>
<td>Cumene 98-82-8</td>
<td>TWA: 50 ppm</td>
<td>TWA: 50 ppm</td>
<td></td>
<td>TWA: 245 mg/m³</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(vacated) TWA: 50 ppm</td>
<td>(vacated) STEL: 245 mg/m³</td>
<td></td>
<td>(vacated) TWA: 245 mg/m³</td>
<td>(vacated) S* S*</td>
</tr>
</tbody>
</table>

**NIOSH IDLH** Immediately Dangerous to Life or Health

**Other Information**
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 Controls**
Showers
Eyewash stations
Ventilation systems.

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

**Eye/face protection**
Tight sealing safety goggles. Face protection shield.

**Skin and body protection**
No special technical protective measures are necessary.

**Respiratory protection**
If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**General Hygiene Considerations**
When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>liquid</td>
</tr>
<tr>
<td>Appearance</td>
<td>No information available</td>
</tr>
<tr>
<td>Color</td>
<td>No information available</td>
</tr>
<tr>
<td>Odor</td>
<td>No information available</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No information available</td>
</tr>
</tbody>
</table>
Explosive properties
No information available

Oxidizing properties
No information available

Other Information

Softening point
No information available

Molecular weight
No information available

VOC Content (%)
No information available

Density
7.17 lbs/gal

Bulk density
No information available

Percent solids by weight
2.1%

Percent volatile by weight
97.9%

Percent solids by volume
1.6%

Actual VOC (lbs/gal)
7

Actual VOC (grams/liter)
840.5

EPA VOC (lbs/gal)
7

EPA VOC (grams/liter)
840.5

EPA VOC (lb/gal solids)
447.2

10. STABILITY AND REACTIVITY

Reactivity
No data available

Chemical stability
Stable under recommended storage conditions.

Possibility of Hazardous Reactions
None under normal processing.

Conditions to avoid
Heat, flames and sparks.

Incompatible materials
Strong oxidizing agents. Strong acids. Chlorinated compounds.

Hazardous Decomposition Products
Carbon oxides.

11. TOXICOLOGICAL INFORMATION
Information on likely routes of exposure

**Product Information**

- **Inhalation**: No data available.
- **Eye contact**: No data available.
- **Skin Contact**: No data available.
- **Ingestion**: No data available.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl Ethyl Ketone 78-93-3</td>
<td>= 2483 mg/kg (Rat)</td>
<td>= 5000 mg/kg (Rabbit)</td>
<td>= 11700 ppm (Rat) 4 h</td>
</tr>
<tr>
<td>Toluene 108-88-3</td>
<td>= 2600 mg/kg (Rat)</td>
<td>= 12000 mg/kg (Rabbit)</td>
<td>= 12.5 mg/L (Rat) 4 h</td>
</tr>
<tr>
<td>Aromatic 100 64742-95-6</td>
<td>= 8400 mg/kg (Rat)</td>
<td>&gt; 2000 mg/kg (Rabbit)</td>
<td>= 3400 ppm (Rat) 4 h</td>
</tr>
<tr>
<td>Ethyl Acetate 141-78-6</td>
<td>= 5620 mg/kg (Rat)</td>
<td>&gt; 18000 mg/kg (Rabbit) &gt; 20 mL/kg (Rabbit)</td>
<td>-</td>
</tr>
<tr>
<td>Butyl Acetate 123-86-4</td>
<td>= 10768 mg/kg (Rat)</td>
<td>&gt; 17600 mg/kg (Rabbit)</td>
<td>= 390 ppm (Rat) 4 h</td>
</tr>
<tr>
<td>Methyl Isobutyl Ketone 108-10-1</td>
<td>= 2080 mg/kg (Rat)</td>
<td>= 3000 mg/kg (Rabbit)</td>
<td>= 8.2 mg/L (Rat) 4 h</td>
</tr>
<tr>
<td>1,2,4-Trimethylbenzene 95-63-6</td>
<td>= 3280 mg/kg (Rat)</td>
<td>&gt; 3160 mg/kg (Rabbit)</td>
<td>= 18 g/m³ (Rat) 4 h</td>
</tr>
<tr>
<td>Xylene 1330-20-7</td>
<td>= 3500 mg/kg (Rat)</td>
<td>&gt; 17000 mg/kg (Rabbit) &gt; 4350 mg/kg (Rabbit)</td>
<td>= 29.08 mg/L (Rat) 4 h = 5000 ppm (Rat) 4 h</td>
</tr>
<tr>
<td>Ethyl Benzene 100-41-4</td>
<td>= 3500 mg/kg (Rat)</td>
<td>= 15400 mg/kg (Rabbit)</td>
<td>= 17.2 mg/L (Rat) 4 h</td>
</tr>
<tr>
<td>Cumene 98-82-8</td>
<td>= 1400 mg/kg (Rat)</td>
<td>= 12300 µL/kg (Rabbit)</td>
<td>= 39000 mg/m³ (Rat) 4 h &gt; 3577 ppm (Rat) 6 h</td>
</tr>
</tbody>
</table>

Information on toxicological effects

**Symptoms**

No information available.

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

**Sensitization**

No information available.

**Germ cell mutagenicity**

No information available.

**Carcinogenicity**

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>Toluene 108-88-3</td>
<td>-</td>
<td>Group 3</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Methyl Isobutyl Ketone 108-10-1</td>
<td>A3</td>
<td>Group 2B</td>
<td>-</td>
<td>X</td>
</tr>
<tr>
<td>Xylene 1330-20-7</td>
<td>-</td>
<td>Group 3</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Ethyl Benzene 100-41-4</td>
<td>A3</td>
<td>Group 2B</td>
<td>-</td>
<td>X</td>
</tr>
<tr>
<td>Cumene 98-82-8</td>
<td>-</td>
<td>Group 2B</td>
<td>Reasonably Anticipated</td>
<td>X</td>
</tr>
</tbody>
</table>

**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 a human carcinogen

**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**

Product is or contains a chemical which is a known or suspected reproductive hazard.

**STOT - single exposure**

No information available.
STOT - repeated exposure

Chronic toxicity

Contains a known or suspected reproductive toxic. Ethylbenzene has been classified by the International Agency for Research on Cancer (IARC) as possibly carcinogenic to humans (Group 2B). Prolonged or repeated overexposure to ethylbenzene may result in adverse effects to the kidneys, liver, respiratory system, thyroid, testicles, and pituitary glands. Avoid repeated exposure. May cause adverse effects on the bone marrow and blood-forming system. May cause adverse liver effects.

Target Organ Effects

blood, Central nervous system, Eyes, kidney, liver, Respiratory system, Skin.

No information available.

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document mg/kg mg/l

### 12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic life with long lasting effects

2.13% of the mixture consists of components(s) of unknown hazards to the aquatic environment

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Algae/aquatic plants</th>
<th>Fish</th>
<th>Crustacea</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl Ethyl Ketone 78-93-3</td>
<td>-</td>
<td>3130 - 3320: 96 h Pimephales promelas mg/L LC50 flow-through</td>
<td>520: 48 h Daphnia magna mg/L EC50 5091: 48 h Daphnia magna mg/L EC50 4025 - 6440: 48 h Daphnia magna mg/L EC50 Static</td>
</tr>
<tr>
<td>Toluene 108-88-3</td>
<td>433: 96 h Pseudokirchneriella subcapitata mg/L EC50 12.5: 72 h Pseudokirchneriella subcapitata mg/L EC50 static</td>
<td>15.22 - 19.05: 96 h Pimephales promelas mg/L LC50 flow-through 12.6: 96 h Pimephales promelas mg/L LC50 static 5.89 - 7.81: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 14.1 - 17.16: 96 h Oncorhynchus mykiss mg/L LC50 static 5.8: 96 h Oncorhynchus mykiss mg/L LC50 semi-static 11.0 - 15.0: 96 h Lepomis macrochirus mg/L LC50 static 54: 96 h Oncorhynchus mykiss mg/L LC50 semi-static 50.87 - 70.34: 96 h Oncorhynchus mykiss mg/L LC50 static 5.46 - 9.83: 48 h Daphnia magna mg/L EC50 Static</td>
<td></td>
</tr>
<tr>
<td>Aromatic 100 64742-95-6</td>
<td>-</td>
<td>9.22: 96 h Oncorhynchus mykiss mg/L LC50</td>
<td>6.14: 48 h Daphnia magna mg/L EC50</td>
</tr>
<tr>
<td>Ethyl Acetate 141-78-6</td>
<td>3300: 48 h Desmodesmus subspicatus mg/L EC50</td>
<td>220 - 250: 96 h Pimephales promelas mg/L LC50 flow-through 484: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 352 - 500: 96 h Oncorhynchus mykiss mg/L LC50 semi-static</td>
<td>560: 48 h Daphnia magna mg/L EC50 Static</td>
</tr>
<tr>
<td>Butyl Acetate 123-86-4</td>
<td>674.7: 72 h Desmodesmus subspicatus mg/L EC50</td>
<td>100: 96 h Lepomis macrochirus mg/L LC50 static 17 - 19: 96 h Pimephales promelas mg/L LC50 flow-through 62: 96 h Leuciscus idus mg/L LC50 static</td>
<td>72.8: 24 h Daphnia magna mg/L EC50</td>
</tr>
<tr>
<td>Methyl Isobutyl Ketone 108-10-1</td>
<td>400: 96 h Pseudokirchneriella subcapitata mg/L EC50</td>
<td>496 - 514: 96 h Pimephales promelas mg/L LC50 flow-through</td>
<td>170: 48 h Daphnia magna mg/L EC50</td>
</tr>
<tr>
<td>1,2,4-Trimethylbenzene 95-63-6</td>
<td>-</td>
<td>7.19 - 8.28: 96 h Pimephales promelas mg/L LC50 flow-through</td>
<td>6.14: 48 h Daphnia magna mg/L EC50</td>
</tr>
</tbody>
</table>
### Xylene

**Chemical Name**: Xylene  
**CAS Number**: 1330-20-7

<table>
<thead>
<tr>
<th>Test Species</th>
<th>Effect Concentration</th>
<th>Time (h)</th>
<th>LC50</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pimephales promelas</td>
<td>13.4</td>
<td>96</td>
<td>flow-through</td>
<td>2.661 - 4.093 mg/L</td>
</tr>
<tr>
<td>Oncorhynchus mykiss</td>
<td>13.5</td>
<td>96</td>
<td>flow-through</td>
<td>19.6 mg/L</td>
</tr>
<tr>
<td>Lepomis macrochirus</td>
<td>13.1</td>
<td>96</td>
<td>flow-through</td>
<td>7.711 mg/L</td>
</tr>
<tr>
<td>Lepomis macrochirus</td>
<td>13.1</td>
<td>96</td>
<td>static</td>
<td>23.53 - 29.97 mg/L</td>
</tr>
<tr>
<td>Pimephales promelas</td>
<td>13.5</td>
<td>96</td>
<td>static</td>
<td>70.6 mg/L</td>
</tr>
<tr>
<td>Cyprinus carpio</td>
<td>13.1</td>
<td>96</td>
<td>semi-static</td>
<td>30.26 - 40.75 mg/L</td>
</tr>
<tr>
<td>Poecilia reticulata</td>
<td>3.82</td>
<td>48</td>
<td>water flea</td>
<td>0.6 mg/L</td>
</tr>
</tbody>
</table>

**Persistent and degradability**  
No information available.

**Bioaccumulation**  
No information available.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Partition coefficient</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl Ethyl Ketone</td>
<td>0.29</td>
</tr>
<tr>
<td>Toluene</td>
<td>2.65</td>
</tr>
<tr>
<td>Ethyl Acetate</td>
<td>0.6</td>
</tr>
<tr>
<td>Butyl Acetate</td>
<td>1.81</td>
</tr>
<tr>
<td>Methyl Isobutyl Ketone</td>
<td>1.19</td>
</tr>
<tr>
<td>1,2,4-Trimethylbenzene</td>
<td>3.63</td>
</tr>
<tr>
<td>Xylene</td>
<td>2.77 - 3.15</td>
</tr>
<tr>
<td>Ethyl Benzene</td>
<td>3.118</td>
</tr>
<tr>
<td>Cumene</td>
<td>3.55</td>
</tr>
</tbody>
</table>

**Other adverse effects**  
No information available

### 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods
Disposal of wastes

This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261).

Contaminated packaging

Do not reuse container.

US EPA Waste Number

D001 U055 U112 U159 U161 U220 U239

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl Ethyl Ketone</td>
<td></td>
<td></td>
<td>Toxic</td>
<td></td>
</tr>
<tr>
<td>78-93-3</td>
<td></td>
<td></td>
<td>Ignitable</td>
<td></td>
</tr>
<tr>
<td>Toluene</td>
<td></td>
<td></td>
<td>Toxic</td>
<td></td>
</tr>
<tr>
<td>108-88-3</td>
<td></td>
<td></td>
<td>Ignitable</td>
<td></td>
</tr>
<tr>
<td>Ethyl Acetate</td>
<td></td>
<td></td>
<td>Toxic</td>
<td></td>
</tr>
<tr>
<td>141-78-6</td>
<td></td>
<td></td>
<td>Ignitable</td>
<td></td>
</tr>
<tr>
<td>Xylene</td>
<td></td>
<td></td>
<td>Toxic</td>
<td></td>
</tr>
<tr>
<td>1330-20-7</td>
<td></td>
<td></td>
<td>Ignitable</td>
<td></td>
</tr>
<tr>
<td>Ethyl Benzene</td>
<td></td>
<td></td>
<td>Toxic</td>
<td></td>
</tr>
<tr>
<td>100-41-4</td>
<td></td>
<td></td>
<td>Ignitable</td>
<td></td>
</tr>
<tr>
<td>Cumene</td>
<td></td>
<td></td>
<td>Toxic</td>
<td></td>
</tr>
<tr>
<td>98-82-8</td>
<td></td>
<td></td>
<td>Ignitable</td>
<td></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 Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl Ethyl Ketone</td>
<td>Toxic</td>
</tr>
<tr>
<td>78-93-3</td>
<td>Ignitable</td>
</tr>
<tr>
<td>Toluene</td>
<td>Toxic</td>
</tr>
<tr>
<td>108-88-3</td>
<td>Ignitable</td>
</tr>
<tr>
<td>Ethyl Acetate</td>
<td>Toxic</td>
</tr>
<tr>
<td>141-78-6</td>
<td>Ignitable</td>
</tr>
<tr>
<td>Xylene</td>
<td>Toxic</td>
</tr>
<tr>
<td>1330-20-7</td>
<td>Ignitable</td>
</tr>
<tr>
<td>Ethyl Benzene</td>
<td>Toxic</td>
</tr>
<tr>
<td>100-41-4</td>
<td>Ignitable</td>
</tr>
<tr>
<td>Cumene</td>
<td>Toxic</td>
</tr>
<tr>
<td>98-82-8</td>
<td>Ignitable</td>
</tr>
</tbody>
</table>

14. TRANSPORT INFORMATION
DOT
UN/ID no. UN1263
Proper shipping name Paint
Hazard Class Class 3, Flammable Liquid
Packing Group II
Special Provisions 149, B52, IB2, T4, TP1, TP8, TP28
Description UN1263, Paint, Class 3, Flammable Liquid, II
Emergency Response Guide Number 128

TDG
UN/ID no. UN1263
Proper shipping name Paint
Hazard Class 3
Packing Group II
Description UN1263, Paint, 3, II

MEX
UN/ID no. UN1263
Proper shipping name Paint
Hazard Class 3
Packing Group II
Description UN1263, Paint, 3, II

ICAO (air)
UN/ID no. UN1263
Proper shipping name Paint
Hazard Class 3
Packing Group II
Special Provisions A3, A72
Description UN1263, Paint, 3, II

IATA
UN/ID no. UN1263
Proper shipping name Paint
Hazard Class 3
Packing Group II
ERG Code 3L
Special Provisions A3, A72
Description UN1263, Paint, 3, II

IMDG
UN/ID no. UN1263
Proper shipping name Paint
Hazard Class 3
Packing Group II
EmS-No. F-E, S-E
Special Provisions 163
Description UN1263, Paint, 3, II

RID
UN/ID no. UN1263
Proper shipping name Paint
Hazard Class 3
Packing Group II
Classification code F1
Description UN1263, Paint, 3, II

ADR
UN/ID no. UN1263
Proper shipping name Paint
Hazard Class 3  
Packing Group II  
Classification code F1  
Tunnel restriction code (D/E)  
Special Provisions 163, 640C, 650  
Description UN1263, Paint, 3, II, (D/E)  
Labels 3  

ADN  
Proper shipping name Paint  
Hazard Class 3  
Packing Group II  
Classification code F1  
Special Provisions 163, 640C, 650  
Description UN1263, Paint, 3, II  
Hazard label(s) 3  
Limited quantity (LQ) 5 L  
Ventilation VE01  

15. REGULATORY INFORMATION  

International Inventories  
TSCA Complies  
DSL/NDSL Complies  
EINECS/ELINCS Does not comply  
ENCS Does not comply  
IECSC Complies  
KECL Complies  
PICCS Complies  
AICS Complies  

Legend:  
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory  
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List  
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
ENCS - Japan Existing and New Chemical Substances  
IECSC - China Inventory of Existing Chemical Substances  
KECL - Korean Existing and Evaluated Chemical Substances  
PICCS - Philippines Inventory of Chemicals and Chemical Substances  
AICS - Australian Inventory of Chemical Substances  

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  

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>SARA 313 - Threshold Values %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toluene - 108-88-3</td>
<td>1.0</td>
</tr>
<tr>
<td>Methyl Isobutyl Ketone - 108-10-1</td>
<td>1.0</td>
</tr>
<tr>
<td>1,2,4-Trimethylbenzene - 95-63-6</td>
<td>1.0</td>
</tr>
<tr>
<td>Xylene - 1330-20-7</td>
<td>1.0</td>
</tr>
<tr>
<td>Ethyl Benzene - 100-41-4</td>
<td>0.1</td>
</tr>
</tbody>
</table>

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  

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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)

<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>Toluene 108-88-3</td>
<td>1000 lb</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Butyl Acetate 123-86-4</td>
<td>5000 lb</td>
<td>-</td>
<td>-</td>
<td>X</td>
</tr>
<tr>
<td>Xylene 1330-20-7</td>
<td>100 lb</td>
<td>-</td>
<td>-</td>
<td>X</td>
</tr>
<tr>
<td>Ethyl Benzene 100-41-4</td>
<td>1000 lb</td>
<td>X</td>
<td>X</td>
<td>X</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>CERCLA/SARA RQ</th>
<th>Reportable Quantity (RQ)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl Ethyl Ketone 78-93-3</td>
<td>5000 lb</td>
<td>-</td>
<td>RQ 5000 lb final RQ</td>
</tr>
<tr>
<td>Toluene 108-88-3</td>
<td>1000 lb 1 lb</td>
<td>-</td>
<td>RQ 1000 lb final RQ</td>
</tr>
<tr>
<td>Ethyl Acetate 141-78-6</td>
<td>5000 lb</td>
<td>-</td>
<td>RQ 5000 lb final RQ</td>
</tr>
<tr>
<td>Butyl Acetate 123-86-4</td>
<td>5000 lb</td>
<td>-</td>
<td>RQ 5000 lb final RQ</td>
</tr>
<tr>
<td>Methyl Isobutyl Ketone 108-10-1</td>
<td>5000 lb</td>
<td>-</td>
<td>RQ 5000 lb final RQ</td>
</tr>
<tr>
<td>Xylene 1330-20-7</td>
<td>100 lb</td>
<td>-</td>
<td>RQ 100 lb final RQ</td>
</tr>
<tr>
<td>Ethyl Benzene 100-41-4</td>
<td>1000 lb</td>
<td>-</td>
<td>RQ 1000 lb final RQ</td>
</tr>
<tr>
<td>Cumene 98-82-8</td>
<td>5000 lb</td>
<td>-</td>
<td>RQ 5000 lb final RQ</td>
</tr>
</tbody>
</table>

US State Regulations

California Proposition 65
This product contains the following Proposition 65 chemicals

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>California Proposition 65</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toluene - 108-88-3</td>
<td>Developmental Female Reproductive</td>
</tr>
<tr>
<td>Methyl Isobutyl Ketone - 108-10-1</td>
<td>Carcinogen</td>
</tr>
<tr>
<td>Ethyl Benzene - 100-41-4</td>
<td>Carcinogen</td>
</tr>
<tr>
<td>Cumene - 98-82-8</td>
<td>Carcinogen</td>
</tr>
</tbody>
</table>

U.S. State Right-to-Know Regulations

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>New Jersey</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl Ethyl Ketone 78-93-3</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Toluene 108-88-3</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Ethyl Acetate 141-78-6</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Butyl Acetate 123-86-4</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Methyl Isobutyl Ketone 108-10-1</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>1,2,4-Trimethylbenzene 95-63-6</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>
U.S. EPA Label Information
EPA Pesticide Registration Number  Not applicable

Hazardous air pollutants (HAPS) content

LIST OF HAZARDOUS AIR POLLUTANTS SUBJECT TO THE PROVISIONS OF THE CLEAN AIR ACT, TITLE I SECTION 112 ‘National Emission Standards for Hazardous Air Pollutants’:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Weight % of HAPS in Product</th>
<th>Pounds HAPS / Gal Product</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toluene 108-88-3</td>
<td>23.62%</td>
<td>1.69</td>
</tr>
<tr>
<td>Methyl Isobutyl Ketone 108-10-1</td>
<td>6.30%</td>
<td>0.45</td>
</tr>
<tr>
<td>Xylene 1330-20-7</td>
<td>2.50%</td>
<td>0.18</td>
</tr>
<tr>
<td>Ethyl Benzene 100-41-4</td>
<td>1.18%</td>
<td>0.08</td>
</tr>
</tbody>
</table>

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

NFPA  Health hazards 2  Flammability 3  Instability 0  Physical and Chemical Properties -
HMIS  Health hazards 2 *  Flammability 3  Physical hazards 0  Personal protection X

Chronic Hazard Star Legend  * = Chronic Health Hazard

Revision Date  09-Oct-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. Shipping information may vary based upon container size and shipping destination. Each user of this material needs to evaluate the conditions of use and design the appropriate protective mechanisms to prevent employee exposures, property damage, or release to the environment. The manufacturer assumes no responsibility for injury to the recipient or third persons, or for any damages to any property resulting from misuse of the product.

End of Safety Data Sheet