## 1. Identification

**Product identifier**  
**Other means of identification**  
**Product code**  
**Recommended use**  
**Restrictions**  

<table>
<thead>
<tr>
<th><strong>Manufacturer/Importer/Supplier/Distributor information</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Company name</strong></td>
</tr>
</tbody>
</table>
| **Address** | 810 N. Jefferson Ave.  
St. Louis, MO 63106  
United States |
| **Telephone** | (888) 646-1400 |
| **Website** | www.axiscoatings.com |
| **EMERGENCY PHONE 24 Hrs.** | 800-424-9300 ChemTrec |

## 2. Hazard(s) identification

### Physical hazards  
- Flammable liquids  
- Acute toxicity, inhalation  
- Skin corrosion/irritation  
- Serious eye damage/eye irritation  
- Sensitization, respiratory  
- Sensitization, skin  
- Germ cell mutagenicity  
- Carcinogenicity  
- Reproductive toxicity  
- Specific target organ toxicity, single exposure  
- Aspiration hazard  

### Health hazards  
- Category 2  
- Category 4  
- Category 2  
- Category 2A  
- Category 1  
- Category 1  
- Category 1B  
- Category 1B  
- Category 2  
- Category 3 narcotic effects  
- Category 1  

### Environmental hazards  
- Hazardous to the aquatic environment, acute hazard  
- Hazardous to the aquatic environment, long-term hazard  
- Category 3  

### OSHA defined hazards  
- Not classified.  

### Label elements  

#### Signal word  
Danger  

#### Hazard statement  
Highly flammable liquid and vapor. May be fatal if swallowed and enters airways. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause drowsiness or dizziness. May cause genetic defects. May cause cancer. Suspected of damaging fertility or the unborn child. Harmful to aquatic life with long lasting effects.
Precautionary statement

Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No Smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing mist or vapor. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. In case of inadequate ventilation wear respiratory protection.

Response

If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. If experiencing respiratory symptoms: Call a poison center/doctor. Take off contaminated clothing and wash before reuse. In case of fire: Use appropriate media to extinguish.

Storage

Keep cool. Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)

Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.

Supplemental information

49.05% of the mixture consists of component(s) of unknown acute oral toxicity. 94.1% of the mixture consists of component(s) of unknown acute dermal toxicity. 43% of the mixture consists of component(s) of unknown acute inhalation toxicity. 77.66% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 72.05% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

3. Composition/information on ingredients

Mixtures

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Common name and synonyms</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hexamethylene Diisocyanate</td>
<td>28182-81-2</td>
<td>30 - &lt; 40</td>
<td></td>
</tr>
<tr>
<td>Methyl Acetate</td>
<td>79-20-9</td>
<td>30 - &lt; 40</td>
<td></td>
</tr>
<tr>
<td>Solvent Naphtha, petroleum, light aromatic</td>
<td>64742-95-6</td>
<td>10 - &lt; 20</td>
<td></td>
</tr>
<tr>
<td>Trimethyl Benzene</td>
<td>25551-13-7</td>
<td>5 - &lt; 10</td>
<td></td>
</tr>
<tr>
<td>Trimethyl Benzene</td>
<td>95-63-6</td>
<td>3 - &lt; 5</td>
<td></td>
</tr>
<tr>
<td>1,2,3-trimethylbenzene</td>
<td>526-73-8</td>
<td>1 - &lt; 3</td>
<td></td>
</tr>
<tr>
<td>1,3,5-Trimethylbenzene</td>
<td>108-67-8</td>
<td>1 - &lt; 3</td>
<td></td>
</tr>
<tr>
<td>BUTYL ACETATE</td>
<td>123-86-4</td>
<td>1 - &lt; 3</td>
<td></td>
</tr>
<tr>
<td>BENZENE,1-METHYLETHYL-</td>
<td>98-82-8</td>
<td>&lt; 1</td>
<td></td>
</tr>
<tr>
<td>BENZENE, DIMETHYL</td>
<td>1330-20-7</td>
<td>&lt; 0.2</td>
<td></td>
</tr>
</tbody>
</table>

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

Skin contact

Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. Wash contaminated clothing before reuse.

Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion

Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
**Most important symptoms/effects, acute and delayed**

**Indication of immediate medical attention and special treatment needed**
Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

**General information**
Take off all contaminated clothing immediately. IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

**5. Fire-fighting measures**

| Suitable extinguishing media | Water fog. Foam. Carbon dioxide (CO2). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only. |
| Unsuitable extinguishing media | Water. Do not use water jet as an extinguisher, as this will spread the fire. |

**Specific hazards arising from the chemical**
Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. To reduce potential for static discharge, use proper bonding and grounding procedures. This liquid may accumulate static electricity when filling properly grounded containers. Static electricity accumulation may be significantly increased by the presence of small quantities of water or other contaminants. Material will float and may ignite on surface of water. During fire, gases hazardous to health may be formed.

**Special protective equipment and precautions for firefighters**
Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**Fire fighting equipment/instructions**
In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

**Specific methods**
Use standard firefighting procedures and consider the hazards of other involved materials.

**General fire hazards**
Highly flammable liquid and vapor.

**6. Accidental release measures**

| Personal precautions, protective equipment and emergency procedures | Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of vapors and spray mists. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Use appropriate containment to avoid environmental contamination. Transfer by mechanical means such as vacuum truck to a salvage tank or other suitable container for recovery or safe disposal. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS. |
| Methods and materials for containment and cleaning up | Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. Prevent product from entering drains. Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water. Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use. Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the SDS. |
| Environmental precautions | Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Use appropriate containment to avoid environmental contamination. |
7. Handling and storage

Precautions for safe handling
Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Explosion-proof general and local exhaust ventilation. Minimize fire risks from flammable and combustible materials (including combustible dust and static accumulating liquids) or dangerous reactions with incompatible materials. Handling operations that can promote accumulation of static charges include but are not limited to: mixing, filtering, pumping at high flow rates, splash filling, creating mists or sprays, tank and container filling, tank cleaning, sampling, gauging, switching, vacuum truck operations. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Avoid inhalation of vapors and spray mists. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

For additional information on equipment bonding and grounding, refer to the Canadian Electrical Code in Canada, (CSA C27.1), or the American Petroleum Institute (API) Recommended Practice 2003, "Protection Against Ignitions Arising out of Static, Lightning, and Stray Currents" or National Fire Protection Association (NFPA) 77, "Recommended Practice on Static Electricity" or National Fire Protection Association (NFPA) 70, "National Electrical Code".

Conditions for safe storage, including any incompatibilities
Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Eliminate sources of ignition. Avoid spark promoters. Ground/bond container and equipment. These alone may be insufficient to remove static electricity. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits
The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>BENZENE, DIMETHYL (CAS 1330-20-7)</td>
<td>PEL</td>
<td>435 mg/m3</td>
</tr>
<tr>
<td>BENZENE, 1-METHYLETHYL L- (CAS 98-82-8)</td>
<td>PEL</td>
<td>100 ppm</td>
</tr>
<tr>
<td>BUTYL ACETATE (CAS 123-86-4)</td>
<td>PEL</td>
<td>710 mg/m3</td>
</tr>
<tr>
<td>Methyl Acetate (CAS 79-20-9)</td>
<td>PEL</td>
<td>610 mg/m3</td>
</tr>
<tr>
<td>Solvent Naphtha, petroleum, light aromatic (CAS 64742-95-6)</td>
<td>PEL</td>
<td>200 ppm</td>
</tr>
</tbody>
</table>

US. ACGIH Threshold Limit Values

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,2,3-trimethylbenzene (CAS 526-73-8)</td>
<td>TWA</td>
<td>25 ppm</td>
</tr>
<tr>
<td>1,3,5-Trimethylbenzene (CAS 108-67-8)</td>
<td>TWA</td>
<td>25 ppm</td>
</tr>
<tr>
<td>BENZENE, DIMETHYL (CAS 1330-20-7)</td>
<td>STEL</td>
<td>150 ppm</td>
</tr>
<tr>
<td>BENZENE, 1-METHYLETHYL L- (CAS 98-82-8)</td>
<td>TWA</td>
<td>100 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>50 ppm</td>
</tr>
</tbody>
</table>
### US. ACGIH Threshold Limit Values

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUTYL ACETATE (CAS 123-86-4)</td>
<td>STEL</td>
<td>150 ppm</td>
</tr>
<tr>
<td>Methyl Acetate (CAS 79-20-9)</td>
<td>STEL</td>
<td>250 ppm</td>
</tr>
<tr>
<td>Trimethyl Benzene (CAS 25551-13-7)</td>
<td>TWA</td>
<td>200 ppm</td>
</tr>
<tr>
<td>Trimethyl Benzene (CAS 95-63-6)</td>
<td>TWA</td>
<td>25 ppm</td>
</tr>
<tr>
<td>Methyl Acetate (CAS 79-20-9)</td>
<td>TWA</td>
<td>200 ppm</td>
</tr>
<tr>
<td>Trimethyl Benzene (CAS 95-63-6)</td>
<td>TWA</td>
<td>25 ppm</td>
</tr>
</tbody>
</table>

### US. NIOSH: Pocket Guide to Chemical Hazards

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,2,3-trimethylbenzene (CAS 526-73-8)</td>
<td>TWA</td>
<td>125 mg/m3</td>
</tr>
<tr>
<td>1,3,5-Trimethylbenzene (CAS 108-67-8)</td>
<td>TWA</td>
<td>125 mg/m3</td>
</tr>
<tr>
<td>BENZENE, 1-METHYLETHYL L- (CAS 98-82-8)</td>
<td>TWA</td>
<td>245 mg/m3</td>
</tr>
<tr>
<td>BUTYL ACETATE (CAS 123-86-4)</td>
<td>STEL</td>
<td>950 mg/m3</td>
</tr>
<tr>
<td>Methyl Acetate (CAS 79-20-9)</td>
<td>TWA</td>
<td>710 mg/m3</td>
</tr>
<tr>
<td>Solvent Naphtha, petroleum, light aromatic (CAS 64742-95-6)</td>
<td>TWA</td>
<td>400 mg/m3</td>
</tr>
<tr>
<td>Trimethyl Benzene (CAS 95-63-6)</td>
<td>TWA</td>
<td>125 mg/m3</td>
</tr>
</tbody>
</table>

### Biological limit values

<table>
<thead>
<tr>
<th>Components</th>
<th>Value</th>
<th>Determinant</th>
<th>Specimen</th>
<th>Sampling Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>BENZENE, DIMETHYL (CAS 1330-20-7)</td>
<td>1.5 g/g</td>
<td>Methylhippuric acids</td>
<td>Creatinine in urine</td>
<td>*</td>
</tr>
</tbody>
</table>

* - For sampling details, please see the source document.

### Exposure guidelines

**US - California OELs: Skin designation**
BENZENE, 1-METHYLETHYL- (CAS 98-82-8) Can be absorbed through the skin.

**US - Minnesota Haz Subs: Skin designation applies**
BENZENE, 1-METHYLETHYL- (CAS 98-82-8) Skin designation applies.

**US - Tennessee OELs: Skin designation**
BENZENE, 1-METHYLETHYL- (CAS 98-82-8) Can be absorbed through the skin.

**US NIOSH Pocket Guide to Chemical Hazards: Skin designation**
BENZENE, 1-METHYLETHYL- (CAS 98-82-8) Can be absorbed through the skin.

**US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**
BENZENE, 1-METHYLETHYL- (CAS 98-82-8) Can be absorbed through the skin.
Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station. Eye wash fountain and emergency showers are recommended.

Individual protection measures, such as personal protective equipment

Eye/face protection
Chemical respirator with organic vapor cartridge and full facepiece.

Skin protection
Hand protection
Wear appropriate chemical resistant gloves.

Other
Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Respiratory protection
Chemical respirator with organic vapor cartridge and full facepiece.

Thermal hazards
Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations
Observe any medical surveillance requirements. When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

9. Physical and chemical properties

Appearance

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid.</td>
</tr>
<tr>
<td>Form</td>
<td>Liquid.</td>
</tr>
<tr>
<td>Color</td>
<td>Colorless</td>
</tr>
</tbody>
</table>

Odor
Solvent.

Odor threshold
Not available.

pH
Not available.

Melting point/freezing point
-144.4 °F (-98 °C) estimated

Initial boiling point and boiling range
132.4 °F (55.78 °C) estimated

Flash point
3.9 °F (-15.6 °C) estimated

Evaporation rate
Not available.

Flammability (solid, gas)
Not applicable.

Upper/lower flammability or explosive limits

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammability limit - lower (%)</td>
<td>3.1 % estimated</td>
</tr>
<tr>
<td>Flammability limit - upper (%)</td>
<td>16 % estimated</td>
</tr>
<tr>
<td>Explosive limit - lower (%)</td>
<td>Not available.</td>
</tr>
<tr>
<td>Explosive limit - upper (%)</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

Vapor pressure
125.01 hPa estimated

Vapor density
Not available.

Relative density
Not available.

Solubility(ies)

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solubility (water)</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

Partition coefficient (n-octanol/water)
Not available.

Auto-ignition temperature
550 °F (287.78 °C) estimated

Decomposition temperature
Not available.

Viscosity
Not available.
Other information

- **Density**: 0.87 g/cm³ estimated
- **Explosive properties**: Not explosive.
- **Flammability class**: Flammable IB estimated
- **Oxidizing properties**: Not oxidizing.
- **Percent volatile**: 37.88 % estimated
- **Specific gravity**: 0.87 estimated

### 10. Stability and reactivity

**Reactivity**
The product is stable and non-reactive under normal conditions of use, storage and transport.

**Chemical stability**
Material is stable under normal conditions.

**Possibility of hazardous reactions**
Hazardous polymerization does not occur.

**Conditions to avoid**
Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.

**Incompatible materials**
Strong oxidizing agents. Nitrates.

**Hazardous decomposition products**
No hazardous decomposition products are known.

### 11. Toxicological information

#### Information on likely routes of exposure

**Inhalation**
Harmful if inhaled. May cause drowsiness and dizziness. Headache. Nausea, vomiting. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**Skin contact**
Causes skin irritation. May cause an allergic skin reaction.

**Eye contact**
Causes serious eye irritation.

**Ingestion**
Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.

**Symptoms related to the physical, chemical and toxicological characteristics**

#### Information on toxicological effects

**Acute toxicity**
May be fatal if swallowed and enters airways. Harmful if inhaled.

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BENZENE, DIMETHYL (CAS 1330-20-7)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oral</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rat</td>
<td>3523 - 8600 mg/kg</td>
</tr>
<tr>
<td><strong>BENZENE, 1-METHYLETHYL- (CAS 98-82-8)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oral</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rat</td>
<td>1400 mg/kg</td>
</tr>
<tr>
<td><strong>Trimethyl Benzene (CAS 95-63-6)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dermal</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rabbit</td>
<td>&gt; 3160 mg/kg</td>
</tr>
</tbody>
</table>

* Estimates for product may be based on additional component data not shown.

**Skin corrosion/irritation**
Causes skin irritation.

**Serious eye damage/eye irritation**
Causes serious eye irritation.

**Respiratory or skin sensitization**

- **Respiratory sensitization**
  May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- **Skin sensitization**
  May cause an allergic skin reaction.
Germ cell mutagenicity  May cause genetic defects.
Carcinogenicity  May cause cancer.

IARC Monographs. Overall Evaluation of Carcinogenicity

BENZENE, DIMETHYL (CAS 1330-20-7)  3 Not classifiable as to carcinogenicity to humans.
BENZENE, 1-METHYLETHYL- (CAS 98-82-8)  2B Possibly carcinogenic to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

BENZENE, 1-METHYLETHYL- (CAS 98-82-8)  Reasonably Anticipated to be a Human Carcinogen.

Reproductive toxicity  Suspected of damaging fertility or the unborn child.
Specific target organ toxicity - single exposure  May cause drowsiness and dizziness.
Specific target organ toxicity - repeated exposure  Not classified.
Aspiration hazard  May be fatal if swallowed and enters airways.
Chronic effects  Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

12. Ecological information

Ecotoxicity  Harmful to aquatic life with long lasting effects.

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,3,5-Trimethylbenzene (CAS 108-67-8)</td>
<td>Fish</td>
<td>LC50</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Goldfish (Carassius auratus)</td>
</tr>
<tr>
<td>BENZENE, DIMETHYL (CAS 1330-20-7)</td>
<td>Fish</td>
<td>LC50</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Bluegill (Lepomis macrochirus)</td>
</tr>
<tr>
<td>BENZENE, 1-METHYLETHYL- (CAS 98-82-8)</td>
<td>Crustacea</td>
<td>EC50</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Brine shrimp (Artemia sp.)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Fish</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Rainbow trout, donaldson trout (Oncorhynchus mykiss)</td>
</tr>
<tr>
<td>BUTYL ACETATE (CAS 123-86-4)</td>
<td>Fish</td>
<td>LC50</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Fathead minnow (Pimephales promelas)</td>
</tr>
<tr>
<td>Methyl Acetate (CAS 79-20-9)</td>
<td>Fish</td>
<td>LC50</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Fathead minnow (Pimephales promelas)</td>
</tr>
<tr>
<td>Solvent Naphtha, petroleum, light aromatic (CAS 64742-95-6)</td>
<td>Crustacea</td>
<td>EC50</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Water flea (Daphnia pulex)</td>
</tr>
<tr>
<td></td>
<td>Fish</td>
<td>LC50</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Rainbow trout, donaldson trout (Oncorhynchus mykiss)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Trimethyl Benzene (CAS 95-63-6)</td>
<td>Fish</td>
<td>LC50</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Fathead minnow (Pimephales promelas)</td>
</tr>
</tbody>
</table>

* Estimates for product may be based on additional component data not shown.

Persistence and degradability

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

BENZENE, DIMETHYL  3.12 - 3.2
BENZENE, 1-METHYLETHYL-  3.66
Partition coefficient n-octanol / water (log Kow)

- BUTYL ACETATE: 1.78
- Methyl Acetate: 0.18

Mobility in soil: No data available.
Other adverse effects: No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions: Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations: Dispose in accordance with all applicable regulations.

Hazardous waste code: The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused products: Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging: Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

The following transportation information is provided based on the manufacturer's interpretation of shipping regulations. Each shipper is responsible for identifying, naming, marking, and labeling prior to offering for transport.

DOT

- UN number: UN1263
- UN proper shipping name: Paint related material including paint thinning, drying, removing, or reducing compound
- Transport hazard class(es)
  - Class: 3
  - Subsidiary risk: -
  - Label(s): 3
- Packing group: II
- Special precautions for user: Read safety instructions, SDS and emergency procedures before handling.
- Special provisions: 149, B52, IB2, T4, TP1, TP8, TP28
- Packaging exceptions: 150
- Packaging non bulk: 173
- Packaging bulk: 242

IATA

- UN number: UN1263
- UN proper shipping name: Paint related material (including paint thinning or reducing compounds)
- Transport hazard class(es)
  - Class: 3
  - Subsidiary risk: -
- Packing group: II
- Environmental hazards: No.
- ERG Code: 3L
- Special precautions for user: Read safety instructions, SDS and emergency procedures before handling.
- Other information
  - Passenger and cargo aircraft: Allowed with restrictions.
  - Cargo aircraft only: Allowed with restrictions.

IMDG

- UN number: UN1263
- UN proper shipping name: PAINT (including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing compound)
- Transport hazard class(es)
  - Class: 3
  - Subsidiary risk: -
  - Packing group: II
Environmental hazards
Marine pollutant  No.
EmS  F-E, S-E
Special precautions for user  Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code  Not established.

15. Regulatory information

US federal regulations  This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)
BENZENE, DIMETHYL (CAS 1330-20-7)  Listed.
BENZENE, 1-METHYLETHYL- (CAS 98-82-8)  Listed.
BUTYL ACETATE (CAS 123-86-4)  Listed.
Methyl Acetate (CAS 79-20-9)  Listed.

SARA 304 Emergency release notification
Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
Immediate Hazard - Yes
Delayed Hazard - Yes
Fire Hazard - Yes
Pressure Hazard - No
Reactivity Hazard - No

SARA 302 Extremely hazardous substance
Not listed.
SARA 311/312 Hazardous chemical  No
SARA 313 (TRI reporting)

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS number</th>
<th>% by wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BENZENE, 1-METHYLETHYL-</td>
<td>98-82-8</td>
<td>&lt; 1</td>
</tr>
<tr>
<td>Trimethyl Benzene</td>
<td>95-63-6</td>
<td>3 - &lt; 5</td>
</tr>
</tbody>
</table>
Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List
- BENZENE, DIMETHYL (CAS 1330-20-7)
- BENZENE, 1-METHYLETHYL- (CAS 98-82-8)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
Not regulated.

Safe Drinking Water Act (SDWA)

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace
- BUTYL ACETATE (CAS 123-86-4) Low priority
- Methyl Acetate (CAS 79-20-9) Low priority

US state regulations
WARNING: This product contains a chemical known to the State of California to cause cancer.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance
- BENZENE, 1-METHYLETHYL- (CAS 98-82-8) Listed: April 6, 2010

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))
- 1,3,5-Trimethylbenzene (CAS 108-67-8)
- BENZENE, DIMETHYL (CAS 1330-20-7)
- BENZENE, 1-METHYLETHYL- (CAS 98-82-8)
- Solvent Naphtha, petroleum, light aromatic (CAS 64742-95-6)
- Trimethyl Benzene (CAS 95-63-6)

International Inventories

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>Australian Inventory of Chemical Substances (AICS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Non-Domestic Substances List (NDSL)</td>
<td>No</td>
</tr>
<tr>
<td>China</td>
<td>Inventory of Existing Chemical Substances in China (IECSC)</td>
<td>Yes</td>
</tr>
<tr>
<td>Europe</td>
<td>European Inventory of Existing Commercial Chemical Substances (EINECS)</td>
<td>No</td>
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<tr>
<td>Europe</td>
<td>European List of Notified Chemical Substances (ELINCS)</td>
<td>No</td>
</tr>
<tr>
<td>Japan</td>
<td>Inventory of Existing and New Chemical Substances (ENCS)</td>
<td>No</td>
</tr>
<tr>
<td>Korea</td>
<td>Existing Chemicals List (ECL)</td>
<td>Yes</td>
</tr>
<tr>
<td>New Zealand</td>
<td>New Zealand Inventory</td>
<td>Yes</td>
</tr>
<tr>
<td>Philippines</td>
<td>Philippine Inventory of Chemicals and Chemical Substances (PICCS)</td>
<td>Yes</td>
</tr>
<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>Yes</td>
</tr>
</tbody>
</table>

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

| Issue date       | 05-25-2017               |
| Revision date    | 04-15-2019               |
| Version #        | 02                       |
| Disclaimer        | Cumberland Products Inc. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user’s responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use.