SAFETY DATA SHEET

1. Identification

Product identifier: URETHANE TIE COAT CATALYST
Other means of identification: KUS-KTC150 CAT
Recommended use: Industrial applications.
Recommended restrictions: Professional use only

Manufacturer/Importer/Supplier/Distributor information

Company name: Custom Shop
Address: 6695 Rasha St.
San Diego, CA 92121
United States
Telephone: Customer Service (858) 909-2110
Emergency phone number: CHEMTREC (800) 424-9300

2. Hazard(s) identification

Physical hazards: Flammable liquids
Health hazards: Acute toxicity, dermal

Acute toxicity, inhalation
Skin corrosion/irritation
Serious eye damage/eye irritation
Sensitization, respiratory
Sensitization, skin
Carcinogenicity
Reproductive toxicity (the unborn child)
Specific target organ toxicity, single exposure
Specific target organ toxicity, repeated exposure

Environmental hazards: Not classified.
OSHA defined hazards: Not classified.

Label elements

Signal word: Danger
Hazard statement: Flammable liquid and vapor. Harmful in contact with skin. 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 respiratory irritation. May cause drowsiness or dizziness. Suspected of causing cancer. Suspected of damaging the unborn child. Causes damage to organs through prolonged or repeated exposure.
Precautionary statement
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. Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Wear eye protection/face protection. Wear protective gloves/protective clothing/eye protection/face protection. In case of inadequate ventilation wear respiratory protection.

Response
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

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
28.69% of the mixture consists of component(s) of unknown acute dermal toxicity. 9.55% of the mixture consists of component(s) of unknown acute inhalation toxicity.

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>DIMETHYLBENZENE (MIXED ISOMERS)</td>
<td></td>
<td>1330-20-7</td>
<td>30 - &lt; 40</td>
</tr>
<tr>
<td>PCBTF, P-Chlorobenzotrifluoride</td>
<td></td>
<td>98-56-6</td>
<td>20 - &lt; 30</td>
</tr>
<tr>
<td>ETHYLBENZENE</td>
<td></td>
<td>100-41-4</td>
<td>10 - &lt; 20</td>
</tr>
<tr>
<td>HEXAMETHYLENE DIISOCYANATE (HDI) HOMOPOLYMER</td>
<td></td>
<td>28182-81-2</td>
<td>10 - &lt; 20</td>
</tr>
<tr>
<td>TOLUENE</td>
<td></td>
<td>108-88-3</td>
<td>&lt; 1</td>
</tr>
</tbody>
</table>

*The exact percentage (concentration) 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. Get medical advice/attention if you feel unwell. 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
Rinse mouth. Get medical advice/attention if you feel unwell.

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
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. Do not breathe mist or vapor. 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). Take precautionary measures against static discharge. Use only non-sparking tools. Keep combustibles (wood, paper, oil, etc.) away from spilled material.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Prevent entry into waterways, sewer, basements or confined areas. 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.

#### Environmental precautions
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. 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, switch loading, 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. Do not breathe mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. 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. Wash contaminated clothing before reuse. Observe good industrial hygiene practices.

For additional information on equipment bonding and grounding, refer to the Canadian Electrical Code in Canada, (CSA C22.1), 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

<table>
<thead>
<tr>
<th>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)</th>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIMETHYLBENZENE (MIXED ISOMERS) (CAS 1330-20-7)</td>
<td>PEL</td>
<td></td>
<td>435 mg/m³</td>
</tr>
<tr>
<td>ETHYLBENZENE (CAS 100-41-4)</td>
<td>PEL</td>
<td></td>
<td>100 ppm</td>
</tr>
<tr>
<td>US. OSHA Table Z-2 (29 CFR 1910.1000)</td>
<td>Components</td>
<td>Type</td>
<td>Value</td>
</tr>
<tr>
<td>TOLUENE (CAS 108-88-3)</td>
<td>Ceiling</td>
<td></td>
<td>300 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td></td>
<td>200 ppm</td>
</tr>
<tr>
<td>US. ACGIH Threshold Limit Values</td>
<td>Components</td>
<td>Type</td>
<td>Value</td>
</tr>
<tr>
<td>DIMETHYLBENZENE (MIXED ISOMERS) (CAS 1330-20-7)</td>
<td>STEL</td>
<td></td>
<td>150 ppm</td>
</tr>
<tr>
<td>ETHYLBENZENE (CAS 100-41-4)</td>
<td>TWA</td>
<td></td>
<td>100 ppm</td>
</tr>
<tr>
<td>TOLUENE (CAS 108-88-3)</td>
<td>TWA</td>
<td></td>
<td>20 ppm</td>
</tr>
<tr>
<td>US. NIOSH: Pocket Guide to Chemical Hazards</td>
<td>Components</td>
<td>Type</td>
<td>Value</td>
</tr>
<tr>
<td>ETHYLBENZENE (CAS 100-41-4)</td>
<td>STEL</td>
<td></td>
<td>545 mg/m³</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>125 ppm</td>
</tr>
<tr>
<td>TOLUENE (CAS 108-88-3)</td>
<td>TWA</td>
<td></td>
<td>435 mg/m³</td>
</tr>
<tr>
<td></td>
<td>STEL</td>
<td></td>
<td>560 mg/m³</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>TWA</td>
<td></td>
<td>150 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>375 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>100 ppm</td>
</tr>
</tbody>
</table>

### Biological limit values

<table>
<thead>
<tr>
<th>ACGIH Biological Exposure Indices</th>
<th>Value</th>
<th>Determinant</th>
<th>Specimen</th>
<th>Sampling Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIMETHYLBENZENE</td>
<td>1.5 g/g</td>
<td>Methylhippuric acids</td>
<td>Creatinine in urine</td>
<td>*</td>
</tr>
<tr>
<td>ETHYLBENZENE</td>
<td>0.15 g/g</td>
<td>Sum of mandelic acid and phenylglyoxylic acid</td>
<td>Creatinine in urine</td>
<td>*</td>
</tr>
<tr>
<td>TOLUENE</td>
<td>0.3 mg/g</td>
<td>o-Cresol, with hydrolysis</td>
<td>Creatinine in urine</td>
<td>*</td>
</tr>
<tr>
<td></td>
<td>0.03 mg/l</td>
<td></td>
<td>Toluene Urine</td>
<td>*</td>
</tr>
<tr>
<td></td>
<td>0.02 mg/l</td>
<td></td>
<td>Toluene Blood</td>
<td>*</td>
</tr>
</tbody>
</table>

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

### Exposure guidelines

**US - California OELs: Skin designation**

- TOLUENE (CAS 108-88-3)
  
  Can be absorbed through the skin.

**US - Minnesota Haz Subs: Skin designation applies**

- TOLUENE (CAS 108-88-3)
  
  Skin designation applies.

**Appropriate engineering controls**

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. Eye wash facilities and emergency shower must be available when handling this product.

### 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. Suitable gloves can be recommended by the glove supplier.

**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

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

**Physical state**

- Liquid.

**Form**

- Liquid.

**Color**

- Clear colorless or nearly colorless

**Odor**

- Characteristic.

**Odor threshold**

- Not available.

**pH**

- Not available.

**Melting point/freezing point**

- -138.82 °F (-94.9 °C) estimated

**Initial boiling point and boiling range**

- 274.8 °F (134.89 °C) estimated
Flash point 81.0 °F (27.2 °C) estimated
Evaporation rate Not available.
Flammability (solid, gas) Not applicable.
Upper/lower flammability or explosive limits
  Flammability limit - lower (%) 1.2 % estimated
  Flammability limit - upper (%) 6.8 % estimated
  Explosive limit - lower (%) Not available.
  Explosive limit - upper (%) Not available.
Vapor pressure 9.58 hPa estimated
Vapor density Not available.
Relative density Not available.
Solubility(ies)
  Solubility (water) Not available.
Partition coefficient (n-octanol/water) Not available.
Auto-ignition temperature 715.73 °F (379.85 °C) estimated
Decomposition temperature Not available.
Viscosity Not available.
Other information
  Density 8.27 lbs/gal
  Explosive properties Not explosive.
  Flammability class Flammable IC estimated
  Oxidizing properties Not oxidizing.
  Percent volatile 80 %
  Specific gravity 1.02 estimated
  VOC 5.82 lbs/gal (696.94 g/l) Coating VOC
       4.92 lbs/gal (589.56 g/l) Material VOC
       5.79 lbs/gal (693.82 g/l) Coating VOC as applied
       4.1 lbs/gal (490.72 g/l) Material VOC as applied

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.
Hazardous decomposition products No hazardous decomposition products are known.

11. Toxicological information
Information on likely routes of exposure
  Inhalation Harmful if inhaled. May cause damage to organs through prolonged or repeated exposure by inhalation. May cause drowsiness and dizziness. Headache. Nausea, vomiting. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
  Skin contact Harmful in contact with skin. Causes skin irritation. May cause an allergic skin reaction.
  Eye contact Causes serious eye irritation.
  Ingestion Expected to be a low ingestion hazard.
Symptoms related to the physical, chemical and toxicological characteristics


Information on toxicological effects

Acute toxicity

Harmful if inhaled. Harmful in contact with skin. Narcotic effects. May cause an allergic skin reaction. May cause respiratory irritation.

Components

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIMETHYLBENZENE (MIXED ISOMERS)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute</td>
<td>Rabbit</td>
<td>LD50 &gt; 43 g/kg</td>
</tr>
<tr>
<td>Dermal</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Inhalation</td>
<td>Mouse</td>
<td>LC50 3907 mg/l, 6 Hours</td>
</tr>
<tr>
<td></td>
<td>Rat</td>
<td>LD50 6350 mg/l, 4 Hours</td>
</tr>
<tr>
<td>Oral</td>
<td>Mouse</td>
<td>LD50 1590 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Rat</td>
<td>LD50 3523 - 8600 mg/kg</td>
</tr>
<tr>
<td>ETHYLBENZENE (CAS 100-41-4)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute</td>
<td>Rabbit</td>
<td>LD50 17800 mg/kg</td>
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<tr>
<td>Dermal</td>
<td></td>
<td>LD50 3500 mg/kg</td>
</tr>
<tr>
<td>Oral</td>
<td>Rabbit</td>
<td>LD50 &gt; 2000 mg/kg</td>
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<tr>
<td></td>
<td></td>
<td>LD50 4468 ppm, 4 hours (vapor)</td>
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<tr>
<td></td>
<td>Rat</td>
<td>LD50 33 mg/l, 4 hours (vapor)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>LD50 13000 mg/kg</td>
</tr>
<tr>
<td>TOLUENE (CAS 108-88-3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute</td>
<td>Rabbit</td>
<td>LD50 12124 mg/kg</td>
</tr>
<tr>
<td>Dermal</td>
<td></td>
<td>LD50 14.1 ml/kg</td>
</tr>
<tr>
<td>Inhalation</td>
<td>Mouse</td>
<td>LD50 5320 ppm, 8 Hours</td>
</tr>
<tr>
<td></td>
<td>Rat</td>
<td>LD50 400 ppm, 24 Hours</td>
</tr>
<tr>
<td></td>
<td></td>
<td>LD50 26700 ppm, 1 Hours</td>
</tr>
<tr>
<td></td>
<td></td>
<td>LD50 12200 ppm, 2 Hours</td>
</tr>
<tr>
<td></td>
<td></td>
<td>LD50 8000 ppm, 4 Hours</td>
</tr>
<tr>
<td>Oral</td>
<td>Rabbit</td>
<td>LD50 2.6 g/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  No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity  Suspected of causing cancer.

IARC Monographs. Overall Evaluation of Carcinogenicity
DIMETHYL BENZENE (MIXED ISOMERS) (CAS 1330-20-7)  3 Not classifiable as to carcinogenicity to humans.
ETHYL BENZENE (CAS 100-41-4)  2B Possibly carcinogenic to humans.
TOLUENE (CAS 108-88-3)  3 Not classifiable as to carcinogenicity to humans.

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

Reproductive toxicity  Components in this product have been shown to cause birth defects and reproductive disorders in laboratory animals. Suspected of damaging the unborn child.
Specific target organ toxicity - single exposure  May cause respiratory irritation. May cause drowsiness and dizziness.
Specific target organ toxicity - repeated exposure  Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard  Not an aspiration hazard.
Chronic effects  Causes damage to organs through prolonged or repeated exposure. Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

12. Ecological information
Ecotoxicity  The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

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<tr>
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<td></td>
</tr>
<tr>
<td>(CAS 1330-20-7)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aquatic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fish</td>
<td>LC50</td>
<td>Bluegill (Lepomis macrochirus) 7.711 - 9.591 mg/l, 96 hours</td>
</tr>
<tr>
<td>ETHYL BENZENE (CAS 100-41-4)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aquatic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crustacea</td>
<td>EC50</td>
<td>Water flea (Daphnia magna) 1.37 - 4.4 mg/l, 48 hours</td>
</tr>
<tr>
<td>Fish</td>
<td>LC50</td>
<td>Fathead minnow (Pimephales promelas) 7.5 - 11 mg/l, 96 hours</td>
</tr>
<tr>
<td>PCBTF, P-Chlorobenzotrifluoride</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(CAS 98-56-6)</td>
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<tr>
<td>Aquatic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Algae</td>
<td>EC50</td>
<td>Green algae (Chlamydomonas variabilis) &gt; 0.41 mg/l, 72 hours</td>
</tr>
<tr>
<td>Crustacea</td>
<td>EC50</td>
<td>Daphnia magna          2 mg/l, 48 hours</td>
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<tr>
<td>Fish</td>
<td>EC50</td>
<td>Zebra danio (Danio rerio) 3 mg/l, 96 hours</td>
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<tr>
<td>Chronic</td>
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<td>Algae</td>
<td>NOEC</td>
<td>Green algae (Chlamydomonas variabilis) 0.41 mg/l, 21 days</td>
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<tr>
<td>TOLUENE (CAS 108-88-3)</td>
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</tr>
<tr>
<td>Aquatic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crustacea</td>
<td>EC50</td>
<td>Water flea (Daphnia magna) 5.46 - 9.83 mg/l, 48 hours</td>
</tr>
<tr>
<td>Fish</td>
<td>LC50</td>
<td>Coho salmon,silver salmon (Oncorhynchus kisutch) 8.11 mg/l, 96 hours</td>
</tr>
</tbody>
</table>

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

Persistence and degradability  No data is available on the degradability of this product.

Bioaccumulative potential

<table>
<thead>
<tr>
<th>Partition coefficient n-octanol / water (log Kow)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIMETHYL BENZENE (MIXED ISOMERS)</td>
</tr>
<tr>
<td>ETHYL BENZENE</td>
</tr>
</tbody>
</table>
Partition coefficient n-octanol / water (log Kow)
PCBTF, P-Chlorobenzotrifluoride 3.7
TOLUENE 2.73

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. 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
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 III
Special precautions for user Read safety instructions, SDS and emergency procedures before handling.
Special provisions B1, B52, IB3, T2, TP1, TP29
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 III
Environmental hazards Yes
ERG Code 3L
Special precautions for user Read safety instructions, SDS and emergency procedures before handling.
Other information
Passenger and cargo aircraft Allowed.
Cargo aircraft only Allowed.

IMDG
UN number UN1263
UN proper shipping name PAINT (including paint, lacquer, enamel, stain, shellac, 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 III
Environmental hazards Marine pollutant Yes
EmS F-E, S-E
Special precautions for user Read safety instructions, SDS and emergency procedures before handling.
Not established.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

DOT

IATA; IMDG

Marine pollutant

General information

IMDG Regulated Marine Pollutant.

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)

PCBTF, P-Chlorobenzotrifluoride (CAS 98-56-6) 1.0 % One-Time Export Notification only.

CERCLA Hazardous Substance List (40 CFR 302.4)

DIMETHYLBENZENE (MIXED ISOMERS) (CAS 1330-20-7) Listed.

ETHYLBENZENE (CAS 100-41-4) Listed.

TOLUENE (CAS 108-88-3) Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

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>DIMETHYLBENZENE (MIXED ISOMERS)</td>
<td>1330-20-7</td>
<td>30 - &lt; 40</td>
</tr>
<tr>
<td>ETHYLBENZENE</td>
<td>100-41-4</td>
<td>10 - &lt; 20</td>
</tr>
<tr>
<td>TOLUENE</td>
<td>108-88-3</td>
<td>&lt; 1</td>
</tr>
</tbody>
</table>

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List
DIMETHYLBENZENE (MIXED ISOMERS) (CAS 1330-20-7)
ETHYLBENZENE (CAS 100-41-4)
TOLUENE (CAS 108-88-3)

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

Safe Drinking Water Act (SDWA)
Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number
TOLUENE (CAS 108-88-3) 6594

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))
TOLUENE (CAS 108-88-3) 35 %WV

DEA Exempt Chemical Mixtures Code Number
TOLUENE (CAS 108-88-3) 594

US state regulations

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)
Not listed.

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))
DIMETHYLBENZENE (MIXED ISOMERS) (CAS 1330-20-7)
ETHYLBENZENE (CAS 100-41-4)
TOLUENE (CAS 108-88-3)

US. Massachusetts RTK - Substance List
DIMETHYLBENZENE (MIXED ISOMERS) (CAS 1330-20-7)
ETHYLBENZENE (CAS 100-41-4)
TOLUENE (CAS 108-88-3)

US. New Jersey Worker and Community Right-to-Know Act
DIMETHYLBENZENE (MIXED ISOMERS) (CAS 1330-20-7)
ETHYLBENZENE (CAS 100-41-4)
PCBT, P-Chlorobenzotrifluoride (CAS 98-56-6)
TOLUENE (CAS 108-88-3)

US. Pennsylvania Worker and Community Right-to-Know Law
DIMETHYLBENZENE (MIXED ISOMERS) (CAS 1330-20-7)
ETHYLBENZENE (CAS 100-41-4)
TOLUENE (CAS 108-88-3)

US. Rhode Island RTK
DIMETHYLBENZENE (MIXED ISOMERS) (CAS 1330-20-7)
ETHYLBENZENE (CAS 100-41-4)
TOLUENE (CAS 108-88-3)

US. California Proposition 65
WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance
BENZENE (CAS 71-43-2) Listed: February 27, 1987
ETHYLBENZENE (CAS 100-41-4) Listed: June 11, 2004

US - California Proposition 65 - CRT: Listed date/Developmental toxin
BENZENE (CAS 71-43-2) Listed: December 26, 1997
TOLUENE (CAS 108-88-3) Listed: January 1, 1991

US - California Proposition 65 - CRT: Listed date/Female reproductive toxin

TOLUENE (CAS 108-88-3) Listed: August 7, 2009

US - California Proposition 65 - CRT: Listed date/Male reproductive toxin

BENZENE (CAS 71-43-2) Listed: December 26, 1997

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>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: 11-14-2015

Version #: 01

HMIS® ratings
Health: 2*
Flammability: 3
Physical hazard: 0

NFPA ratings
Health: 2
Flammability: 3
Instability: 0

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