SAFETY DATA SHEET

1. Identification

Product identifier: UNIVERSAL URETHANE ACCELERATOR

Other means of identification: KUS KE216

Product code: KUS KE216

Recommended use: Industrial applications.

Recommended restrictions: Professional use only

Manufacturer/Importer/Supplier/Distributor information

Manufacturer:

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 liquid

Health hazards:
- Acute toxicity, dermal Category 4
- Acute toxicity, inhalation Category 4
- Skin corrosion/irritation Category 1C
- Serious eye damage/eye irritation Category 1
- Sensitization, skin Category 1
- Germ cell mutagenicity Category 2
- Carcinogenicity Category 2
- Reproductive toxicity Category 1B
- Specific target organ toxicity, repeated exposure Category 1

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 severe skin burns and eye damage. May cause an allergic skin reaction. Causes serious eye damage. Harmful if inhaled. Suspected of causing genetic defects. Suspected of causing cancer. May damage fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure.

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. 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.
Response
If swallowed: Rinse mouth. 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. Immediately call a poison center/doctor. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. In case of fire: Use appropriate media to extinguish.

Storage
Store in a well-ventilated place. Keep cool. 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
6% of the mixture consists of component(s) of unknown acute dermal toxicity. 6.94% 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>70 - &lt; 80</td>
</tr>
<tr>
<td>ETHYLBENZENE</td>
<td></td>
<td>100-41-4</td>
<td>10 - &lt; 20</td>
</tr>
<tr>
<td>DIBUTYLTIN DILAURATE</td>
<td></td>
<td>77-58-7</td>
<td>5 - &lt; 10</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. Call a POISON CENTER or doctor/physician if you feel unwell.

Skin contact
Remove contaminated clothing immediately and wash skin with soap and water. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. 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. Call a physician or poison control center immediately.

Ingestion
Immediately 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
Burning pain and severe corrosive skin damage. Headache. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Prolonged exposure may cause chronic effects.

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. Chemical 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
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.

- Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

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. Do not get in eyes, on skin, or on 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

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>DIBUTYL Tin DILAURATE (CAS 77-58-7)</td>
<td>PEL</td>
<td>0.1 mg/m³</td>
</tr>
<tr>
<td>DIMETHYLBENZENE (MIXED ISOMERS) (CAS 1330-20-7)</td>
<td>PEL</td>
<td>435 mg/m³</td>
</tr>
<tr>
<td>ETHYLBENZENE (CAS 100-41-4)</td>
<td>PEL</td>
<td>435 mg/m³</td>
</tr>
</tbody>
</table>

US. OSHA Table Z-2 (29 CFR 1910.1000)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOLUENE (CAS 108-88-3)</td>
<td>Ceiling</td>
<td>300 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA</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>DIBUTYL Tin DILAURATE (CAS 77-58-7)</td>
<td>STEL</td>
<td>0.2 mg/m³</td>
</tr>
<tr>
<td>DIMETHYLBENZENE (MIXED ISOMERS) (CAS 1330-20-7)</td>
<td>TWA</td>
<td>0.1 mg/m³</td>
</tr>
<tr>
<td>ETHYLBENZENE (CAS 100-41-4)</td>
<td>TWA</td>
<td>150 ppm</td>
</tr>
<tr>
<td>TOLUENE (CAS 108-88-3)</td>
<td>TWA</td>
<td>100 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>DIBUTYL Tin DILAURATE (CAS 77-58-7)</td>
<td>TWA</td>
<td>0.1 mg/m³</td>
</tr>
<tr>
<td>ETHYLBENZENE (CAS 100-41-4)</td>
<td>STEL</td>
<td>545 mg/m³</td>
</tr>
<tr>
<td>TOLUENE (CAS 108-88-3)</td>
<td>TWA</td>
<td>375 mg/m³</td>
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<tr>
<td></td>
<td>STEL</td>
<td>125 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>435 mg/m³</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>100 ppm</td>
</tr>
<tr>
<td></td>
<td>STEL</td>
<td>560 mg/m³</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>150 ppm</td>
</tr>
</tbody>
</table>

Biological limit values

<table>
<thead>
<tr>
<th>ACGIH Biological Exposure Indices Components</th>
<th>Value</th>
<th>Determinant</th>
<th>Specimen</th>
<th>Sampling Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIMETHYLBENZENE (MIXED ISOMERS) (CAS 1330-20-7)</td>
<td>1.5 g/g</td>
<td>Methylhippuric acids</td>
<td>Creatinine in urine</td>
<td>*</td>
</tr>
<tr>
<td>ETHYLBENZENE (CAS 100-41-4)</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 (CAS 108-88-3)</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>Toluene</td>
<td>Urine</td>
<td>*</td>
</tr>
<tr>
<td></td>
<td>0.02 mg/l</td>
<td>Toluene</td>
<td>Blood</td>
<td>*</td>
</tr>
</tbody>
</table>

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

**US - California OELs: Skin designation**
- DIBUTYL Tin DILAURATE (CAS 77-58-7): Can be absorbed through the skin.
- TOLUENE (CAS 108-88-3): Can be absorbed through the skin.

**US - Minnesota Haz Subs: Skin designation applies**
- DIBUTYL Tin DILAURATE (CAS 77-58-7): Skin designation applies.

**US - Tennessee OELs: Skin designation**
- DIBUTYL Tin DILAURATE (CAS 77-58-7): Can be absorbed through the skin.

**US ACGIH Threshold Limit Values: Skin designation**
- DIBUTYL Tin DILAURATE (CAS 77-58-7): Can be absorbed through the skin.

**US NIOSH Pocket Guide to Chemical Hazards: Skin designation**
- DIBUTYL Tin DILAURATE (CAS 77-58-7): Can be absorbed through the skin.

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**
  - Pale yellow.
- **Odor**
  - Mild.
- **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**
  - 11.07 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: 814.1 °F (434.5 °C) estimated

Decomposition temperature: Not available.

Viscosity: Not available.

Other information:
  Density: 7.33 lbs/gal
  Explosive properties: Not explosive.
  Flammability class: Flammable IC estimated
  Oxidizing properties: Not oxidizing.
  Percent volatile: 94 % estimated
  Specific gravity: 0.88
  VOC: 6.89 lbs/gal (826.21 g/l) Coating VOC
       6.89 lbs/gal (826.21 g/l) Material VOC

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.
  Skin contact: Causes severe skin burns. Harmful in contact with skin. May cause an allergic skin reaction.
  Eye contact: Causes serious eye damage.
  Ingestion: Causes digestive tract burns.

Symptoms related to the physical, chemical and toxicological characteristics:
  Burning pain and severe corrosive skin damage. Headache. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

Information on toxicological effects:
Acute toxicity: Harmful if inhaled. Harmful in contact with skin. May cause an allergic skin reaction.

Components | Species | Test Results
--- | --- | ---
DIBUTYL Tin DILAURATE (CAS 77-58-7) |  |  
Acute | Rat | 175 mg/kg
Oral |  |  
LD50 |  |  
DIMETHYLBENZENE (MIXED ISOMERS) (CAS 1330-20-7) |  |  
Acute | Rabbit | > 43 g/kg
Dermal |  |  
LD50 |  |  
Inhalation | Mouse | 3907 mg/l, 6 Hours
LC50 | Rat | 6350 mg/l, 4 Hours
<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>Mouse</td>
<td>1590 mg/kg</td>
</tr>
<tr>
<td>LD50</td>
<td>Rat</td>
<td>3523 - 8600 mg/kg</td>
</tr>
<tr>
<td>ETHYLBENZENE (CAS 100-41-4)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dermal</td>
<td>Rabbit</td>
<td>17800 mg/kg</td>
</tr>
<tr>
<td>Oral</td>
<td>Rat</td>
<td>3500 mg/kg</td>
</tr>
<tr>
<td>TOLUENE (CAS 108-88-3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dermal</td>
<td>Rabbit</td>
<td>12124 mg/kg</td>
</tr>
<tr>
<td></td>
<td></td>
<td>14.1 ml/kg</td>
</tr>
<tr>
<td>Inhalation</td>
<td>Mouse</td>
<td>5320 ppm, 8 Hours</td>
</tr>
<tr>
<td>LC50</td>
<td>Rat</td>
<td>400 ppm, 24 Hours</td>
</tr>
<tr>
<td></td>
<td></td>
<td>26700 ppm, 1 Hours</td>
</tr>
<tr>
<td></td>
<td></td>
<td>12200 ppm, 2 Hours</td>
</tr>
<tr>
<td></td>
<td></td>
<td>8000 ppm, 4 Hours</td>
</tr>
<tr>
<td>Oral</td>
<td>Rat</td>
<td>2.6 g/kg</td>
</tr>
<tr>
<td>LD50</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

**Skin corrosion/irritation**
- Causes severe skin burns and eye damage.

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

**Respiratory or skin sensitization**

**Respiratory sensitization**
- Not a respiratory sensitizer.

**Skin sensitization**
- May cause an allergic skin reaction.

**Germ cell mutagenicity**
- Suspected of causing genetic defects.

**Carcinogenicity**
- Suspected of causing cancer.

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

- Not listed.

**Reproductive toxicity**
- Components in this product have been shown to cause birth defects and reproductive disorders in laboratory animals. May damage fertility or the unborn child.

**Specific target organ toxicity - single exposure**
- Not classified.

**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.
Components | Species | Test Results
--- | --- | ---
DIMETHYLBENZENE (MIXED ISOMERS) (CAS 1330-20-7) **Aquatic**
Fish | LC50 | Bluegill (Lepomis macrochirus) 7.711 - 9.591 mg/l, 96 hours

ETHYLBENZENE (CAS 100-41-4) **Aquatic**
Crustacea | EC50 | Water flea (Daphnia magna) 1.37 - 4.4 mg/l, 48 hours
Fish | LC50 | Fathead minnow (Pimephales promelas) 7.5 - 11 mg/l, 96 hours

TOLUENE (CAS 108-88-3) **Aquatic**
Crustacea | EC50 | Water flea (Daphnia magna) 5.46 - 9.83 mg/l, 48 hours
Fish | LC50 | Coho salmon, silver salmon 8.11 mg/l, 96 hours (Oncorhynchus kisutch)

* 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>Substance</th>
<th>Partition coefficient n-octanol / water (log Kow)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIBUTYL Tin DILAURATE</td>
<td>3.12</td>
</tr>
<tr>
<td>DIMETHYLBENZENE (MIXED ISOMERS)</td>
<td>3.12 - 3.2</td>
</tr>
<tr>
<td>ETHYLBENZENE</td>
<td>3.15</td>
</tr>
<tr>
<td>TOLUENE</td>
<td>2.73</td>
</tr>
</tbody>
</table>

**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 |
| Transport hazard class(es) | Paint related material including paint thinning, drying, removing, or reducing compound |
| 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 |
| Transport hazard class(es) | Paint related material (including paint thinning or reducing compounds) |
| 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)**

Not regulated.

**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.


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>70 - &lt; 80</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)**

Not regulated.

**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)
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
ETHYLBENZENE (CAS 100-41-4) Listed: June 11, 2004

US - California Proposition 65 - CRT: Listed date/Developmental toxin
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

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: 01-29-2016
Version #: 01

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

NFPA ratings
Health: 3
Flammability: 3
Instability: 0

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