1. Identification

Product identifier VERSA II HB 2K ACTIVATOR
Other means of identification BPR12601
Recommended use Activator
Recommended restrictions No other uses are advised.
Manufacturer/Importer/Supplier/Distributor information
Manufacturer:
- Company name: Liberty Bell Equipment Corp
- Address: 810 N. Jefferson Ave.
  St. Louis, MO 63106
- United States
- Telephone: (888) 646-1400
- Website: www.axiscoatings.com

Emergency phone number EMERGENCY 24 Hrs. ChemTrec 800-424-9300

2. Hazard(s) identification

Physical hazards
- Flammable liquids Category 2
- Acute toxicity, oral Category 4
- Acute toxicity, inhalation Category 3
- Skin corrosion/irritation Category 2
- Serious eye damage/eye irritation Category 2A
- Sensitization, respiratory Category 1
- Sensitization, skin Category 1
- Carcinogenicity Category 2
- Reproductive toxicity (the unborn child) Category 2
- Specific target organ toxicity, single exposure Category 3 narcotic effects
- Specific target organ toxicity, repeated exposure Category 1

Health hazards
- Hazardous to the aquatic environment, acute hazard Category 2
- Hazardous to the aquatic environment, long-term hazard Category 2

Environmental hazards
- Not classified.

OSHA defined hazards
- Not classified.

Label elements

Signal word Danger
Hazard statement
Highly flammable liquid and vapor. Harmful if swallowed. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Toxic if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause drowsiness or dizziness. Suspected of causing cancer. Suspected of damaging the unborn child. Causes damage to organs through prolonged or repeated exposure. Toxic to aquatic life. Toxic 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. 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. 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: Call a poison center/doctor if you feel unwell. 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. Call a poison center/doctor. Rinse mouth. 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. Collect spillage.

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
41.74% of the mixture consists of component(s) of unknown acute oral toxicity. 36.5% of the mixture consists of component(s) of unknown acute inhalation toxicity. 46.63% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 41.74% 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></td>
<td>28182-81-2</td>
<td>20 - &lt; 40</td>
</tr>
<tr>
<td>Toluene</td>
<td></td>
<td>108-88-3</td>
<td>10 - &lt; 30</td>
</tr>
<tr>
<td>N-Butyl Acetate</td>
<td></td>
<td>123-86-4</td>
<td>5 - &lt; 15</td>
</tr>
<tr>
<td>Xylene</td>
<td></td>
<td>1330-20-7</td>
<td>5 - &lt; 15</td>
</tr>
<tr>
<td>Glycol Ether PM Acetate</td>
<td></td>
<td>108-65-6</td>
<td>5 - &lt; 10</td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td></td>
<td>100-41-4</td>
<td>0 - &lt; 5</td>
</tr>
<tr>
<td>Trimethyl Benzene</td>
<td></td>
<td>25551-13-7</td>
<td>0 - &lt; 5</td>
</tr>
<tr>
<td>Trimetyl Benzene</td>
<td></td>
<td>95-63-6</td>
<td>0 - &lt; 5</td>
</tr>
<tr>
<td>Isopropyl Benzene</td>
<td></td>
<td>98-82-8</td>
<td>0&lt; 1</td>
</tr>
<tr>
<td>Other components below reportable levels</td>
<td></td>
<td></td>
<td>&lt; 0.2</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. 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
Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. 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.

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**5. Fire-fighting measures**

**Suitable extinguishing media**

Alcohol resistant foam. Water fog. 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.

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**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 product from entering drains. 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 release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases. 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 loadng, 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. Do not taste or swallow. 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. 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 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>Ethylbenzene (CAS 100-41-4)</td>
<td>PEL</td>
<td></td>
<td>435 mg/m³</td>
</tr>
<tr>
<td>Isopropyl Benzene (CAS 98-82-8)</td>
<td>PEL</td>
<td></td>
<td>100 ppm</td>
</tr>
<tr>
<td>N-Butyl Acetate (CAS 123-86-4)</td>
<td>PEL</td>
<td></td>
<td>245 mg/m³</td>
</tr>
<tr>
<td>Xylene (CAS 1330-20-7)</td>
<td>PEL</td>
<td></td>
<td>50 ppm</td>
</tr>
<tr>
<td>Toluene (CAS 108-88-3)</td>
<td>Ceiling</td>
<td></td>
<td>710 mg/m³</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td></td>
<td>150 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>435 mg/m³</td>
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</table>

<table>
<thead>
<tr>
<th>US. OSHA Table Z-2 (29 CFR 1910.1000)</th>
<th>Components</th>
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<tr>
<td>Toluene (CAS 108-88-3)</td>
<td>Ceiling</td>
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<td>300 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td></td>
<td>200 ppm</td>
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</table>

<table>
<thead>
<tr>
<th>US. ACGIH Threshold Limit Values Components</th>
<th>Type</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Ethylbenzene (CAS 100-41-4)</td>
<td>TWA</td>
<td>20 ppm</td>
</tr>
<tr>
<td>Isopropyl Benzene (CAS 98-82-8)</td>
<td>TWA</td>
<td>50 ppm</td>
</tr>
<tr>
<td>N-Butyl Acetate (CAS 123-86-4)</td>
<td>STEL</td>
<td>200 ppm</td>
</tr>
<tr>
<td>Toluene (CAS 108-88-3)</td>
<td>TWA</td>
<td>150 ppm</td>
</tr>
<tr>
<td>Trimethyl Benzene (CAS 25551-13-7)</td>
<td>TWA</td>
<td>20 ppm</td>
</tr>
<tr>
<td>Trimethyl Benzene (CAS 95-63-6)</td>
<td>TWA</td>
<td>25 ppm</td>
</tr>
<tr>
<td>US. ACGIH Threshold Limit Values Components</td>
<td>Type</td>
<td>Value</td>
</tr>
<tr>
<td>-------------------------------------------</td>
<td>-------</td>
<td>--------</td>
</tr>
<tr>
<td>Xylene (CAS 1330-20-7)</td>
<td>STEL</td>
<td>150 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>100 ppm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>US. NIOSH: Pocket Guide to Chemical Hazards Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylobenzene (CAS 100-41-4)</td>
<td>STEL</td>
<td>545 mg/m3</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>125 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>435 mg/m3</td>
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<tr>
<td></td>
<td></td>
<td>100 ppm</td>
</tr>
<tr>
<td>Isopropyl Benzene (CAS 98-82-8)</td>
<td>TWA</td>
<td>245 mg/m3</td>
</tr>
<tr>
<td>N-Butyl Acetate (CAS 123-86-4)</td>
<td>STEL</td>
<td>950 mg/m3</td>
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<tr>
<td></td>
<td>TWA</td>
<td>200 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>710 mg/m3</td>
</tr>
<tr>
<td>Toluene (CAS 108-88-3)</td>
<td>STEL</td>
<td>560 mg/m3</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>150 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>375 mg/m3</td>
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<tr>
<td></td>
<td></td>
<td>100 ppm</td>
</tr>
<tr>
<td>Trimethyl Benzene (CAS 95-63-6)</td>
<td>TWA</td>
<td>125 mg/m3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>US. Workplace Environmental Exposure Level (WEEL) Guides Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glycol Ether PM Acetate (CAS 108-65-6)</td>
<td>TWA</td>
<td>50 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>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>
<tr>
<td>Xylene (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**
- Glycol Ether PM Acetate (CAS 108-65-6) Can be absorbed through the skin.
- Isopropyl Benzene (CAS 98-82-8) Can be absorbed through the skin.
- Toluene (CAS 108-88-3) Can be absorbed through the skin.

**US - Minnesota Haz Subs: Skin designation applies**
- Isopropyl Benzene (CAS 98-82-8) Skin designation applies.
- Toluene (CAS 108-88-3) Skin designation applies.

**US - Tennessee OELs: Skin designation**
- Isopropyl Benzene (CAS 98-82-8) Can be absorbed through the skin.

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

**US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**
- Isopropyl Benzene (CAS 98-82-8) 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. Keep away from food and drink. 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
Colorless

Odor
Solvent.

Odor threshold
Not available.

pH
Not available.

Melting point/freezing point
-138.82 °F (-94.9 °C) estimated

Initial boiling point and boiling range
231.08 °F (110.6 °C) estimated

Flash point
40.0 °F (4.4 °C) estimated

Evaporation rate
Not available.

Flammability (solid, gas)
Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower (%)
1.3 % estimated

Flammability limit - upper (%)
7.5 % estimated

Explosive limit - lower (%)
Not available.

Explosive limit - upper (%)
Not available.

Vapor pressure
24.03 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
797 °F (425 °C) estimated

Decomposition temperature
Not available.

Viscosity
Not available.

Other information

Density
0.87 g/cm3 estimated

Flammability class
Flammable IB estimated
Percent volatile
63.25 w/w % By Weight
66.85 v/v % By Volume

Specific gravity
0.87 estimated

VOC (Weight %)
5.04 lb/gal (Actual VOC - With Water With Exempts)
5.04 lb/gal (Regulatory VOC - Less Water Less Exempts)
603.40 g/L (Actual VOC - With Water With Exempts)
603.40 g/L (Regulatory VOC - Less Water Less Exempts)

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

Hazardous decomposition products
No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation
Toxic 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
Causes skin irritation. May cause an allergic skin reaction.

Eye contact
Causes serious eye irritation.

Ingestion
Harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Information on toxicological effects

Acute toxicity
Toxic if inhaled. Harmful if swallowed. Narcotic effects. May cause an allergic skin reaction.

Components	Species	Test Results

Ethylbenzene (CAS 100-41-4)

Acute
Dermal
LD50	Rabbit	17800 mg/kg

Oral
LD50	Rat	3500 mg/kg

Isopropyl Benzene (CAS 98-82-8)

Acute
Inhalation
LC50	Mouse	2000 ppm, 7 Hours

24.7 mg/l, 2 Hours

Rat	8000 ppm, 4 Hours

Oral
LD50	Rat	1400 mg/kg

N-Butyl Acetate (CAS 123-86-4)

Acute
Inhalation
LC50	Wistar rat	160 mg/l, 4 Hours

Oral
LD50	Rat	14000 mg/kg
<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Toluene (CAS 108-88-3)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></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><strong>Inhalation</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LC50</td>
<td>Mouse</td>
<td>5320 ppm, 8 Hours</td>
</tr>
<tr>
<td></td>
<td></td>
<td>400 ppm, 24 Hours</td>
</tr>
<tr>
<td></td>
<td>Rat</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><strong>Oral</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rat</td>
<td>2.6 g/kg</td>
</tr>
<tr>
<td><strong>Trimethyl Benzene (CAS 25551-13-7)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oral</td>
<td>Rat</td>
<td>8970 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>Rabbit</td>
<td>&gt; 3160 mg/kg</td>
</tr>
<tr>
<td><strong>Inhalation</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LC50</td>
<td>Rat</td>
<td>&gt; 2000 ppm, 48 Hours</td>
</tr>
<tr>
<td><strong>Oral</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rat</td>
<td>6 g/kg</td>
</tr>
<tr>
<td><strong>Xylene (CAS 1330-20-7)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dermal</td>
<td>Rabbit</td>
<td>&gt; 43 g/kg</td>
</tr>
<tr>
<td><strong>Inhalation</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LC50</td>
<td>Mouse</td>
<td>3907 mg/l, 6 Hours</td>
</tr>
<tr>
<td></td>
<td>Rat</td>
<td>6350 mg/l, 4 Hours</td>
</tr>
<tr>
<td><strong>Oral</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Mouse</td>
<td>1590 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Rat</td>
<td>3523 - 8600 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**
May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**Respiratory sensitization**
May cause an allergic skin reaction.

**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**
- Ethylbenzene (CAS 100-41-4): 2B Possibly carcinogenic to humans.
- Isopropyl Benzene (CAS 98-82-8): 2B Possibly carcinogenic to humans.
- Toluene (CAS 108-88-3): 3 Not classifiable as to carcinogenicity to humans.
- Xylene (CAS 1330-20-7): 3 Not classifiable as to carcinogenicity to humans.
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

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 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
Toxic 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>Ethylbenzene (CAS 100-41-4)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aquatic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crustacea EC50</td>
<td>Water flea (Daphnia magna)</td>
<td>1.37 - 4.4 mg/l, 48 hours</td>
</tr>
<tr>
<td>Fish LC50</td>
<td>Fathead minnow (Pimephales promelas)</td>
<td>7.5 - 11 mg/l, 96 hours</td>
</tr>
<tr>
<td>Isopropyl Benzene (CAS 98-82-8)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aquatic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crustacea EC50</td>
<td>Brine shrimp (Artemia sp.)</td>
<td>3.55 - 11.29 mg/l, 48 hours</td>
</tr>
<tr>
<td>Fish LC50</td>
<td>Rainbow trout,donaldson trout (Oncorhynchus mykiss)</td>
<td>2.7 mg/l, 96 hours</td>
</tr>
<tr>
<td>N-Butyl Acetate (CAS 123-86-4)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aquatic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fish LC50</td>
<td>Fathead minnow (Pimephales promelas)</td>
<td>17 - 19 mg/l, 96 hours</td>
</tr>
<tr>
<td>Toluene (CAS 108-88-3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aquatic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crustacea EC50</td>
<td>Water flea (Daphnia magna)</td>
<td>5.46 - 9.83 mg/l, 48 hours</td>
</tr>
<tr>
<td>Fish LC50</td>
<td>Coho salmon,silver salmon (Oncorhynchus kisutch)</td>
<td>8.11 mg/l, 96 hours</td>
</tr>
<tr>
<td>Trimethyl Benzene (CAS 95-63-6)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aquatic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fish LC50</td>
<td>Fathead minnow (Pimephales promelas)</td>
<td>7.19 - 8.28 mg/l, 96 hours</td>
</tr>
<tr>
<td>Xylene (CAS 1330-20-7)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aquatic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fish LC50</td>
<td>Bluegill (Lepomis macrochirus)</td>
<td>7.711 - 9.591 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>Ethylbenzene</td>
</tr>
<tr>
<td>Isopropyl Benzene</td>
</tr>
<tr>
<td>N-Butyl Acetate</td>
</tr>
<tr>
<td>Toluene</td>
</tr>
<tr>
<td>Xylene</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. 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, MARINE POLLUTANT |
| Transport hazard class(es) | Class 3, Subsidiary risk - |
| | Label(s) 3, Packing group II |
| Environmental hazards | Yes, Marine pollutant |
| 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, 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 II, Environmental hazards No, 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

DOT

IATA; IMDG

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. All components are on the U.S. EPA TSCA Inventory List.

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

CERCLA Hazardous Substance List (40 CFR 302.4)
- Ethylbenzene (CAS 100-41-4)   Listed.
- Isopropyl Benzene (CAS 98-82-8) Listed.
- N-Butyl Acetate (CAS 123-86-4) Listed.
- Toluene (CAS 108-88-3)         Listed.
- Xylene (CAS 1330-20-7)         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>Toluene</td>
<td>108-88-3</td>
<td>10 - &lt; 30</td>
</tr>
<tr>
<td>Xylene</td>
<td>1330-20-7</td>
<td>5 - &lt; 15</td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td>100-41-4</td>
<td>0 - &lt; 5</td>
</tr>
<tr>
<td>Trimethyl Benzene</td>
<td>95-63-6</td>
<td>0 - &lt; 5</td>
</tr>
<tr>
<td>Isopropyl Benzene</td>
<td>98-82-8</td>
<td>0&lt; 1</td>
</tr>
</tbody>
</table>

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List
- Ethylbenzene (CAS 100-41-4)
- Isopropyl Benzene (CAS 98-82-8)
- Toluene (CAS 108-88-3)
- Xylene (CAS 1330-20-7)

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))
- Ethylbenzene (CAS 100-41-4)
- Isopropyl Benzene (CAS 98-82-8)
- Toluene (CAS 108-88-3)
- Trimethyl Benzene (CAS 25551-13-7)
- Trimethyl Benzene (CAS 95-63-6)
- Xylene (CAS 1330-20-7)

US. Massachusetts RTK - Substance List
- Ethylbenzene (CAS 100-41-4)
- Isopropyl Benzene (CAS 98-82-8)
- N-Butyl Acetate (CAS 123-86-4)
- Toluene (CAS 108-88-3)
- Trimethyl Benzene (CAS 25551-13-7)
- Trimethyl Benzene (CAS 95-63-6)
- Xylene (CAS 1330-20-7)

US. New Jersey Worker and Community Right-to-Know Act
- Ethylbenzene (CAS 100-41-4)
- Isopropyl Benzene (CAS 98-82-8)
- N-Butyl Acetate (CAS 123-86-4)
- Toluene (CAS 108-88-3)
- Trimethyl Benzene (CAS 25551-13-7)
- Trimethyl Benzene (CAS 95-63-6)
- Xylene (CAS 1330-20-7)

US. Pennsylvania Worker and Community Right-to-Know Law
- Ethylbenzene (CAS 100-41-4)
- Isopropyl Benzene (CAS 98-82-8)
- N-Butyl Acetate (CAS 123-86-4)
- Toluene (CAS 108-88-3)
Trimethyl Benzene (CAS 25551-13-7)
Trimethyl Benzene (CAS 95-63-6)
Xylene (CAS 1330-20-7)

US. Rhode Island RTK
Ethylbenzene (CAS 100-41-4)
Isopropyl Benzene (CAS 98-82-8)
N-Butyl Acetate (CAS 123-86-4)
Toluene (CAS 108-88-3)
Trimethyl Benzene (CAS 95-63-6)
Xylene (CAS 1330-20-7)

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
Isopropyl Benzene (CAS 98-82-8) Listed: April 6, 2010

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>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>
</tr>
<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>No</td>
</tr>
<tr>
<td>New Zealand</td>
<td>New Zealand Inventory</td>
<td>No</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

REVISION DATE 11/11/2016
VERSION 2.0

Disclaimer
Our company 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. The information in the sheet was written based on the best knowledge and experience currently available.