SAFETY DATA SHEET

1. Identification

Product identifier: White Base Coat
Other means of identification: BCW
Product code: Base Coat
Recommended use: Base Coat
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

Health hazards:
- Acute toxicity, oral
Category 4
- Acute toxicity, inhalation
Category 3
- Serious eye damage/eye irritation
Category 1
- Carcinogenicity
Category 2
- Specific target organ toxicity, single exposure
Category 3 narcotic effects

Environmental hazards:
- Hazardous to the aquatic environment, acute hazard
Category 2
- Hazardous to the aquatic environment, long-term hazard
Category 3

OSHA defined hazards:
Not classified.

Label elements

Signal word: Danger
Hazard statement:
Highly flammable liquid and vapor. Harmful if swallowed. Causes serious eye damage. Toxic if inhaled. May cause drowsiness or dizziness. Suspected of causing cancer. Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

Precautionary statement

Prevention:
Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face 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. Immediately call a poison center/doctor. Specific treatment (see this label). Rinse mouth. 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

53.27% of the mixture consists of component(s) of unknown acute oral toxicity. 15.99% of the mixture consists of component(s) of unknown acute inhalation toxicity. 63.52% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 63.52% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Common name and synonyms</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium Dioxide</td>
<td>13463-67-7</td>
<td>30 - &lt; 50</td>
<td></td>
</tr>
<tr>
<td>N-Butyl Acetate</td>
<td>123-86-4</td>
<td>20 - &lt; 40</td>
<td></td>
</tr>
<tr>
<td>Methyl n-Amyl Ketone</td>
<td>110-43-0</td>
<td>5 - &lt; 10</td>
<td></td>
</tr>
<tr>
<td>N-Butyl Alcohol</td>
<td>71-36-3</td>
<td>5 - &lt; 10</td>
<td></td>
</tr>
<tr>
<td>Tert Butyl Acetate</td>
<td>540-88-5</td>
<td>0 - &lt; 10</td>
<td></td>
</tr>
<tr>
<td>Aluminum Hydroxide Regulatory</td>
<td>21645-51-2</td>
<td>0 - &lt; 5</td>
<td></td>
</tr>
<tr>
<td>Crystalline Quartz Regulatory</td>
<td>14808-60-7</td>
<td>&lt; 5</td>
<td></td>
</tr>
<tr>
<td>parachlorobenzotrifluoride</td>
<td>98-56-6</td>
<td>0 - &lt; 5</td>
<td></td>
</tr>
<tr>
<td>Petroleum Distillates, Hydrotreated Light Regulatory</td>
<td>64742-47-8</td>
<td>0 - &lt; 5</td>
<td></td>
</tr>
<tr>
<td>Silica, amorphous, precipitated and gel</td>
<td>112926-00-8</td>
<td>0 - &lt; 5</td>
<td></td>
</tr>
<tr>
<td>tert-Butyl Alcohol</td>
<td>75-65-0</td>
<td>&lt; 5</td>
<td></td>
</tr>
<tr>
<td>Other components below reportable levels</td>
<td></td>
<td>5 - &lt; 10</td>
<td></td>
</tr>
</tbody>
</table>

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

4. First-aid measures

Inhalation

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

Skin contact

Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical attention if irritation develops and persists.

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 immediately.

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

May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Upper respiratory tract irritation. Skin irritation.

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. 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
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
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.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures
Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of vapors and spray mists. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Use appropriate containment to avoid environmental contamination. Transfer by mechanical means such as vacuum truck to a salvage tank or other suitable container for recovery or safe disposal. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up
Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). 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. 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 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 get this material in contact with eyes. Avoid inhalation of vapors and spray mists. Avoid prolonged exposure. Do not taste or swallow. When using, do not eat, drink or smoke. Should be handled in closed systems, if possible. 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>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl n-Amyl Ketone (CAS 110-43-0)</td>
<td>PEL</td>
<td>465 mg/m³</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>100 ppm</td>
<td></td>
</tr>
<tr>
<td>N-Butyl Acetate (CAS 123-86-4)</td>
<td>PEL</td>
<td>710 mg/m³</td>
<td></td>
</tr>
<tr>
<td>N-Butyl Alcohol (CAS 71-36-3)</td>
<td>PEL</td>
<td>150 ppm</td>
<td></td>
</tr>
<tr>
<td>Tert Butyl Acetate (CAS 540-88-5)</td>
<td>PEL</td>
<td>950 mg/m³</td>
<td></td>
</tr>
<tr>
<td>tert-Butyl Alcohol (CAS 75-65-0)</td>
<td>PEL</td>
<td>200 ppm</td>
<td></td>
</tr>
<tr>
<td>Titanium Dioxide (CAS 13463-67-7)</td>
<td>PEL</td>
<td>15 mg/m³</td>
<td>Total dust.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crystalline Quartz Regulatory (CAS 14808-60-7)</td>
<td>TWA</td>
<td>0.3 mg/m³</td>
<td>Total dust.</td>
</tr>
<tr>
<td>Silica, amorphous, precipitated and gel (CAS 112926-00-8)</td>
<td>TWA</td>
<td>0.1 mg/m³</td>
<td>Respirable.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2.4 mppcf</td>
<td>Respirable.</td>
</tr>
</tbody>
</table>
### US. ACGIH Threshold Limit Values

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum Hydroxide Regulatory (CAS 21645-51-2)</td>
<td>TWA</td>
<td>1 mg/m³</td>
<td>Respirable fraction.</td>
</tr>
<tr>
<td>Crystalline Quartz Regulatory (CAS 14808-60-7)</td>
<td>TWA</td>
<td>0.025 mg/m³</td>
<td>Respirable fraction.</td>
</tr>
<tr>
<td>Methyl n-Amyl Ketone (CAS 110-43-0)</td>
<td>TWA</td>
<td>50 ppm</td>
<td></td>
</tr>
<tr>
<td>N-Butyl Acetate (CAS 123-86-4)</td>
<td>STEL</td>
<td>200 ppm</td>
<td></td>
</tr>
<tr>
<td>N-Butyl Alcohol (CAS 71-36-3)</td>
<td>TWA</td>
<td>150 ppm</td>
<td></td>
</tr>
<tr>
<td>Tert Butyl Acetate (CAS 540-88-5)</td>
<td>TWA</td>
<td>200 ppm</td>
<td></td>
</tr>
<tr>
<td>tert-Butyl Alcohol (CAS 75-65-0)</td>
<td>TWA</td>
<td>100 ppm</td>
<td></td>
</tr>
<tr>
<td>Titanium Dioxide (CAS 13463-67-7)</td>
<td>TWA</td>
<td>10 mg/m³</td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crystalline Quartz Regulatory (CAS 14808-60-7)</td>
<td>TWA</td>
<td>0.05 mg/m³</td>
<td>Respirable dust.</td>
</tr>
<tr>
<td>Methyl n-Amyl Ketone (CAS 110-43-0)</td>
<td>TWA</td>
<td>465 mg/m³</td>
<td></td>
</tr>
<tr>
<td>N-Butyl Acetate (CAS 123-86-4)</td>
<td>STEL</td>
<td>100 ppm</td>
<td>950 mg/m³</td>
</tr>
<tr>
<td>TWA</td>
<td></td>
<td>200 ppm</td>
<td>710 mg/m³</td>
</tr>
<tr>
<td>N-Butyl Alcohol (CAS 71-36-3)</td>
<td>Ceiling</td>
<td>150 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Petroleum Distillates, Hydrotreated Light Regulatory (CAS 64742-47-8)</td>
<td>TWA</td>
<td>50 ppm</td>
<td></td>
</tr>
<tr>
<td>Silica, amorphous, precipitated and gel (CAS 112926-00-8)</td>
<td>TWA</td>
<td>6 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Tert Butyl Acetate (CAS 540-88-5)</td>
<td>TWA</td>
<td>950 mg/m³</td>
<td></td>
</tr>
<tr>
<td>tert-Butyl Alcohol (CAS 75-65-0)</td>
<td>STEL</td>
<td>200 ppm</td>
<td>450 mg/m³</td>
</tr>
<tr>
<td>TWA</td>
<td></td>
<td>150 ppm</td>
<td>300 mg/m³</td>
</tr>
</tbody>
</table>

### Biological limit values

No biological exposure limits noted for the ingredient(s).

### Exposure guidelines

**US - California OELs: Skin designation**
- N-Butyl Alcohol (CAS 71-36-3) Can be absorbed through the skin.

**US - Minnesota Haz Subs: Skin designation applies**
- N-Butyl Alcohol (CAS 71-36-3) Skin designation applies.

**US - Tennessee OELs: Skin designation**
- N-Butyl Alcohol (CAS 71-36-3) Can be absorbed through the skin.

**US NIOSH Pocket Guide to Chemical Hazards: Skin designation**
- N-Butyl Alcohol (CAS 71-36-3) 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. Provide eyewash station.

Individual protection measures, such as personal protective equipment
Eye/face protection
Chemical respirator with organic vapor cartridge and full facepiece.

Skin protection
Hand protection
Wear appropriate chemical resistant gloves.

Other
Wear suitable protective clothing. Use of an impervious apron is recommended.

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

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.

9. Physical and chemical properties
Appearance

| Physical state | Liquid. |
| Form | Liquid. |
| Color | White |

Odor
Solvent.

Odor threshold
Not available.

pH
Not available.

Melting point/freezing point
-129.64 °F (-89.8 °C) estimated

Initial boiling point and boiling range
243.86 °F (117.7 °C) estimated

Flash point
71.6 °F (22.0 °C) estimated

Evaporation rate
Not available.

Flammability (solid, gas)
Not available.

Upper/lower flammability or explosive limits

| Flammability limit - lower (%) | 1.1 % estimated |
| Flammability limit - upper (%) | 11.3 % estimated |
| Explosive limit - lower (%) | Not available. |
| Explosive limit - upper (%) | Not available. |

Vapor pressure
1958.45 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
650 °F (343.33 °C) estimated

Decomposition temperature
Not available.

Viscosity
Not available.

Other information

| Density | 2.37 g/cm³ estimated |
| Flammability class | Flammable IB estimated |
| Percent volatile | 47.85 w/w % By Weight |
| | 70.47 v/v % By Volume |
| Specific gravity | 2.37 estimated |
10. Stability and reactivity

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

Chemical stability
Material is stable under normal conditions.

Possibility of hazardous reactions
Hazardous polymerization does not occur.

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

Incompatible materials

Hazardous decomposition products
No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

- **Skin contact**: No adverse effects due to skin contact are expected.
- **Eye contact**: Causes serious eye damage.
- **Ingestion**: Harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics
May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Upper respiratory tract irritation. Skin irritation.

Information on toxicological effects

- **Acute toxicity**: Toxic if inhaled. Harmful if swallowed. Narcotic effects.

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum Hydroxide Regulatory (CAS 21645-51-2)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Oral</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rat</td>
<td>&gt; 5000 mg/kg</td>
</tr>
<tr>
<td>Methyl n-Amyl Ketone (CAS 110-43-0)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Dermal</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rabbit</td>
<td>12600 mg/kg</td>
</tr>
<tr>
<td><strong>Oral</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Mouse</td>
<td>730 mg/kg</td>
</tr>
<tr>
<td></td>
<td>Rat</td>
<td>1.67 g/kg</td>
</tr>
<tr>
<td>N-Butyl Acetate (CAS 123-86-4)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Inhalation</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LC50</td>
<td>Wistar rat</td>
<td>160 mg/l, 4 Hours</td>
</tr>
<tr>
<td><strong>Oral</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rat</td>
<td>14000 mg/kg</td>
</tr>
<tr>
<td>N-Butyl Alcohol (CAS 71-36-3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Dermal</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rabbit</td>
<td>3400 mg/kg</td>
</tr>
<tr>
<td><strong>Inhalation</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LC50</td>
<td>Rat</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>790 mg/kg</td>
</tr>
</tbody>
</table>
Components | Species | Test Results
---|---|---
Silica, amorphous, precipitated and gel (CAS 112926-00-8)

**Acute**
**Oral**
LD50 | Mouse | > 15000 mg/kg
LD50 | Rat | > 22500 mg/kg
tert-Butyl Alcohol (CAS 75-65-0)

**Acute**
**Oral**
LD50 | Rabbit | 3.6 g/kg
LD50 | Rat | 3.5 g/kg

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

**Skin corrosion/irritation**
Prolonged skin contact may cause temporary irritation.

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

**Respiratory or skin sensitization**
- **Respiratory sensitization**: Not available.
- **Skin sensitization**: This product is not expected to cause skin sensitization.

**Germ cell mutagenicity**
No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

**Carcinogenicity**
- **Crystalline Quartz Regulatory (CAS 14808-60-7)**: 1 Carcinogenic to humans.
- **Silica, amorphous, precipitated and gel (CAS 112926-00-8)**: 3 Not classifiable as to carcinogenicity to humans.
- **Titanium Dioxide (CAS 13463-67-7)**: 2B Possibly carcinogenic to humans.

Not listed.

**US. National Toxicology Program (NTP) Report on Carcinogens**
- **Crystalline Quartz Regulatory (CAS 14808-60-7)**: Known To Be Human Carcinogen.

**Reproductive toxicity**
This product is not expected to cause reproductive or developmental effects.

**Specific target organ toxicity - single exposure**
- May cause drowsiness and dizziness.

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

**Aspiration hazard**
Not available.

**Chronic effects**
Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

**12. Ecological information**

**Ecotoxicity**
Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

Components | Species | Test Results
---|---|---
Methyl n-Amyl Ketone (CAS 110-43-0)

**Aquatic**
**Fish**
LC50 | Fathead minnow (Pimephales promelas) | 126 - 137 mg/l, 96 hours
N-Butyl Acetate (CAS 123-86-4)

**Aquatic**
**Fish**
LC50 | Fathead minnow (Pimephales promelas) | 17 - 19 mg/l, 96 hours
N-Butyl Alcohol (CAS 71-36-3)

**Aquatic**
**Crustacea**
EC50 | Water flea (Daphnia magna) | 1897 - 2072 mg/l, 48 hours
**Fish**
LC50 | Bluegill (Lepomis macrochirus) | 100 - 500 mg/l, 96 hours
Components | Species | Test Results
--- | --- | ---
Petroleum Distillates, Hydrotreated Light Regulatory (CAS 64742-47-8)

**Aquatic**
- Fish LC50 Rainbow trout, donaldson trout (Oncorhynchus mykiss) 2.9 mg/l, 96 hours

Tert Butyl Acetate (CAS 540-88-5)

**Aquatic**
- Fish LC50 Fathead minnow (Pimephales promelas) 296 - 362 mg/l, 96 hours

tert-Butyl Alcohol (CAS 75-65-0)

**Aquatic**
- Crustacea EC50 Water flea (Daphnia magna) 4607 - 6577 mg/l, 48 hours
- Fish LC50 Fathead minnow (Pimephales promelas) 6130 - 6700 mg/l, 96 hours

Titanium Dioxide (CAS 13463-67-7)

**Aquatic**
- Crustacea EC50 Water flea (Daphnia magna) > 1000 mg/l, 48 hours
- Fish LC50 Mummichog (Fundulus heteroclitus) > 1000 mg/l, 96 hours

* 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**
No data available.

**Partition coefficient n-octanol / water (log Kow)**
- Methyl n-Amyl Ketone 1.98
- N-Butyl Acetate 1.78
- N-Butyl Alcohol 0.88
- Tert Butyl Acetate 1.76
- tert-Butyl Alcohol 0.35

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

**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 II

**Special precautions for user**
Read safety instructions, SDS and emergency procedures before handling.

**Special provisions**
149, B52, IB2, T4, TP1, TP8, TP28

**Packaging exceptions**
150
Packaging non bulk: 173
Packaging bulk: 242

IATA
- UN number: UN1263
- UN proper shipping name: Paint related material (including paint thinning or reducing compounds)
- 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)
- Marine pollutant: EmS F-E, S-E
- Special precautions for user: Read safety instructions, SDS and emergency procedures before handling.
- Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not established.

DOT

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)
- N-Butyl Acetate (CAS 123-86-4) Listed.
- N-Butyl Alcohol (CAS 71-36-3) Listed.
- Tert Butyl Acetate (CAS 540-88-5) Listed.
- tert-Butyl Alcohol (CAS 75-65-0) 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>N-Butyl Alcohol</td>
<td>71-36-3</td>
<td>5 - &lt; 10</td>
</tr>
<tr>
<td>tert-Butyl Alcohol</td>
<td>75-65-0</td>
<td>0&lt; 5</td>
</tr>
</tbody>
</table>

Other federal regulations
- Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List
  Not regulated.
- Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
  Not regulated.
- Safe Drinking Water Act (SDWA)
  Not regulated.

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))
- Crystalline Quartz Regulatory (CAS 14808-60-7)
- Petroleum Distillates, Hydrotreated Light Regulatory (CAS 64742-47-8)
- tert-Butyl Alcohol (CAS 75-65-0)
- Titanium Dioxide (CAS 13463-67-7)
- US. Massachusetts RTK - Substance List
- Crystalline Quartz Regulatory (CAS 14808-60-7)
- Methyl n-Amyl Ketone (CAS 110-43-0)
- N-Butyl Acetate (CAS 123-86-4)
- N-Butyl Alcohol (CAS 71-36-3)
- Petroleum Distillates, Hydrotreated Light Regulatory (CAS 64742-47-8)
- Silica, amorphous, precipitated and gel (CAS 112926-00-8)
- Tert Butyl Acetate (CAS 540-88-5)
- tert-Butyl Alcohol (CAS 75-65-0)
- Titanium Dioxide (CAS 13463-67-7)
- US. New Jersey Worker and Community Right-to-Know Act
- Crystalline Quartz Regulatory (CAS 14808-60-7)
- Methyl n-Amyl Ketone (CAS 110-43-0)
- N-Butyl Acetate (CAS 123-86-4)
- N-Butyl Alcohol (CAS 71-36-3)
- Petroleum Distillates, Hydrotreated Light Regulatory (CAS 64742-47-8)
- Silica, amorphous, precipitated and gel (CAS 112926-00-8)
- Tert Butyl Acetate (CAS 540-88-5)
- tert-Butyl Alcohol (CAS 75-65-0)
- Titanium Dioxide (CAS 13463-67-7)
US. Pennsylvania Worker and Community Right-to-Know Law
Crystalline Quartz Regulatory (CAS 14808-60-7)
Methyl n-Amyl Ketone (CAS 110-43-0)
N-Butyl Acetate (CAS 123-86-4)
N-Butyl Alcohol (CAS 71-36-3)
Petroleum Distillates, Hydrotreated Light Regulatory (CAS 64742-47-8)
Tert Butyl Acetate (CAS 540-88-5)
tert-Butyl Alcohol (CAS 75-65-0)
Titanium Dioxide (CAS 13463-67-7)

US. Rhode Island RTK
N-Butyl Acetate (CAS 123-86-4)
N-Butyl Alcohol (CAS 71-36-3)
Tert Butyl Acetate (CAS 540-88-5)
tert-Butyl Alcohol (CAS 75-65-0)

US. California Proposition 65
WARNING: This product contains a chemical known to the State of California to cause cancer.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance
Crystalline Quartz Regulatory (CAS 14808-60-7) Listed: October 1, 1988
Titanium Dioxide (CAS 13463-67-7) Listed: September 2, 2011

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>Yes</td>
</tr>
<tr>
<td>New Zealand</td>
<td>New Zealand Inventory</td>
<td>Yes</td>
</tr>
<tr>
<td>Philippines</td>
<td>Philippine Inventory of Chemicals and Chemical Substances (PICCS)</td>
<td>Yes</td>
</tr>
<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>Yes</td>
</tr>
</tbody>
</table>

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

16. Other information

Version 2.1
Revision Date 08/23/2016

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.