# SAFETY DATA SHEET

## 1. Identification

**Product identifier** **Epoxy Primer 1:1 Gray**

**Other means of identification**

**Product code** IMP4700

**Recommended use** Epoxy Primer

**Recommended restrictions** None known.

**Manufacturer/Importer/Supplier/Distributor information**

**Company name** REFINISH DISTRIBUTORS ALLIANCE, INC.

**Address** 331 Calhoun Circle
Castle Rock, CO 80104

**Telephone** 303-345-7166

**Website** www.rda-impact.com

EMERGENCY 24 Hrs. ChemTrec 800-424-9300

## 2. Hazard(s) identification

| | | |
|---|---|---|
| **Physical hazards** | Flammable liquids | Category 2 |
| **Health hazards** | Acute toxicity, dermal | Category 4 |
| | Acute toxicity, inhalation | Category 4 |
| | Skin corrosion/irritation | Category 2 |
| | Serious eye damage/eye irritation | Category 2A |
| | Carcinogenicity | Category 2 |
| | Reproductive toxicity | Category 1 |
| | Specific target organ toxicity, single exposure | Category 3 narcotic effects |
| | Specific target organ toxicity, repeated exposure | Category 1 |
| **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 in contact with skin. Causes skin irritation. Causes serious eye irritation. Harmful if inhaled. May cause drowsiness or dizziness. Suspected of causing cancer. May damage fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure. 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. 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. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. |
| **Response** | If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: 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 container tightly closed. 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** | 61.88% of the mixture consists of component(s) of unknown acute dermal toxicity. 28.61% of the mixture consists of component(s) of unknown acute inhalation toxicity. 61.62% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 61.62% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment. |

## 3. Composition/information on ingredients

**Mixtures**

| Chemical name | Common name and synonyms | CAS number | % |
|---|---|---|---|
| D.E.R. 671-X75/YD-011X75 | | Mixture | 20 - < 40 |
| Barite 1085 | | Mixture | 10 - < 30 |
| Isobutyl Acetate | | Mixture | 5 - < 25 |
| Methyl Ethyl Ketone (MEK) | | Mixture | 5 - < 20 |
| Isopropyl Alcohol 99% | | Mixture | 5 - < 15 |
| Aluminum Hydroxide Regulatory | | 21645-51-2 | 0 - < 5 |
| Ester Solvent EEP | | Mixture | 0 - < 5 |
| Silica | | 7631-86-9 | 0 - < 5 |
| Toluene | | 108-88-3 | 0 - < 5 |
| Xylene | | 1330-20-7 | 0 - < 5 |
| Carbon Black | | 1333-86-4 | 0< 1 |
| Crystalline Quartz Regulatory | | 14808-60-7 | 0< 1 |
| Ethylbenzene | | 100-41-4 | 0< 1 |
| Isobutyl Alcohol | | 78-83-1 | 0< 1 |
| Magnesium oxide | | 1309-48-4 | 0< 1 |
| Maleic Anhydride | | 108-31-6 | 0< 1 |
| N-Butyl Alcohol | | 71-36-3 | 0< 1 |
| Silica, amorphous, precipitated and gel | | 112926-00-8 | 0< 1 |
| Vinyl Acetate | | 108-05-4 | 0< 1 |
| Other components below reportable levels | | | 1 - < 3 |

*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. Call a POISON CENTER or doctor/physician if you feel unwell. |

| | |
|---|---|
| **Skin contact** | Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical advice/attention if you feel unwell. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse. |
| **Eye contact** | Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists. |
| **Ingestion** | Rinse mouth. Get medical advice/attention if you feel unwell. |
| **Most important symptoms/effects, acute and delayed** | May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. 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. 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** | Highly flammable liquid and vapor. |

## 6. Accidental release measures

| | |
|---|---|
| **Personal precautions, protective equipment and emergency procedures** | Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. 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.<br><br>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.<br><br>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.<br><br>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 breathe mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. 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)**

| Components | Type | Value | Form |
|---|---|---|---|
| Carbon Black (CAS 1333-86-4) | PEL | 3.5 mg/m3 | |
| Ethylbenzene (CAS 100-41-4) | PEL | 435 mg/m3 | |
| | | 100 ppm | |
| Isobutyl Alcohol (CAS 78-83-1) | PEL | 300 mg/m3 | |
| | | 100 ppm | |
| Magnesium oxide (CAS 1309-48-4) | PEL | 15 mg/m3 | Total particulate. |
| Maleic Anhydride (CAS 108-31-6) | PEL | 1 mg/m3 | |
| | | 0.25 ppm | |
| N-Butyl Alcohol (CAS 71-36-3) | PEL | 300 mg/m3 | |
| | | 100 ppm | |
| Xylene (CAS 1330-20-7) | PEL | 435 mg/m3 | |
| | | 100 ppm | |

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

| Components | Type | Value |
|---|---|---|
| Toluene (CAS 108-88-3) | Ceiling | 300 ppm |
| | TWA | 200 ppm |

**US. OSHA Table Z-3 (29 CFR 1910.1000)**

| Components | Type | Value | Form |
|---|---|---|---|
| Crystalline Quartz Regulatory (CAS 14808-60-7) | TWA | 0.3 mg/m3 | Total dust. |
| | | 0.1 mg/m3 | Respirable. |
| | | 2.4 mppcf | Respirable. |
| Silica (CAS 7631-86-9) | TWA | 0.8 mg/m3 | |
| | | 20 mppcf | |
| Silica, amorphous, precipitated and gel (CAS 112926-00-8) | TWA | 0.8 mg/m3 | |
| | | 20 mppcf | |

**US. ACGIH Threshold Limit Values**

| Components | Type | Value | Form |
|---|---|---|---|
| Aluminum Hydroxide Regulatory (CAS 21645-51-2) | TWA | 1 mg/m3 | Respirable fraction. |
| Carbon Black (CAS 1333-86-4) | TWA | 3 mg/m3 | Inhalable fraction. |
| Crystalline Quartz Regulatory (CAS 14808-60-7) | TWA | 0.025 mg/m3 | Respirable fraction. |
| Ethylbenzene (CAS 100-41-4) | TWA | 20 ppm | |
| Isobutyl Alcohol (CAS 78-83-1) | TWA | 50 ppm | |
| Magnesium oxide (CAS 1309-48-4) | TWA | 10 mg/m3 | Inhalable fraction. |
| Maleic Anhydride (CAS 108-31-6) | TWA | 0.01 mg/m3 | Inhalable fraction and vapor. |
| N-Butyl Alcohol (CAS 71-36-3) | TWA | 20 ppm | |
| Toluene (CAS 108-88-3) | TWA | 20 ppm | |
| Vinyl Acetate (CAS 108-05-4) | STEL | 15 ppm | |
| | TWA | 10 ppm | |
| Xylene (CAS 1330-20-7) | STEL | 150 ppm | |
| | TWA | 100 ppm | |

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

| Components | Type | Value | Form |
|---|---|---|---|
| Carbon Black (CAS 1333-86-4) | TWA | 0.1 mg/m3 | |
| Crystalline Quartz Regulatory (CAS 14808-60-7) | TWA | 0.05 mg/m3 | Respirable dust. |
| Ethylbenzene (CAS 100-41-4) | STEL | 545 mg/m3 | |
| | | 125 ppm | |
| | TWA | 435 mg/m3 | |
| | | 100 ppm | |
| Isobutyl Alcohol (CAS 78-83-1) | TWA | 150 mg/m3 | |
| | | 50 ppm | |
| Maleic Anhydride (CAS 108-31-6) | TWA | 1 mg/m3 | |
| | | 0.25 ppm | |
| N-Butyl Alcohol (CAS 71-36-3) | Ceiling | 150 mg/m3 | |
| | | 50 ppm | |

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

| Components | Type | Value | Form |
|---|---|---|---|
| Silica (CAS 7631-86-9) | TWA | 6 mg/m3 | |
| Silica, amorphous, precipitated and gel (CAS 112926-00-8) | TWA | 6 mg/m3 | |
| Toluene (CAS 108-88-3) | STEL | 560 mg/m3<br>150 ppm | |
| | TWA | 375 mg/m3<br>100 ppm | |
| Vinyl Acetate (CAS 108-05-4) | Ceiling | 15 mg/m3<br>4 ppm | |

**Biological limit values**

**ACGIH Biological Exposure Indices**

| Components | Value | Determinant | Specimen | Sampling Time |
|---|---|---|---|---|
| Ethylbenzene (CAS 100-41-4) | 0.15 g/g | Sum of mandelic acid and phenylglyoxylic acid | Creatinine in urine | * |
| Toluene (CAS 108-88-3) | 0.3 mg/g | o-Cresol, with hydrolysis | Creatinine in urine | * |
| | 0.03 mg/l | Toluene | Urine | * |
| | 0.02 mg/l | Toluene | Blood | * |
| Xylene (CAS 1330-20-7) | 1.5 g/g | Methylhippuric acids | Creatinine in urine | * |

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

**Exposure guidelines**

**US - California OELs: Skin designation**

N-Butyl Alcohol (CAS 71-36-3) Can be absorbed through the skin.
Toluene (CAS 108-88-3) Can be absorbed through the skin.

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

N-Butyl Alcohol (CAS 71-36-3) Skin designation applies.
Toluene (CAS 108-88-3) 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. 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.

## 9. Physical and chemical properties

| | |
|---|---|
| **Appearance** | |
| **Physical state** | Liquid. |
| **Form** | Liquid. |
| **Color** | Grey |
| **Odor** | Solvent. |
| **Odor threshold** | Not available. |
| **pH** | Not available. |
| **Melting point/freezing point** | -145.84 °F (-98.8 °C) estimated |
| **Initial boiling point and boiling range** | 175.26 °F (79.59 °C) estimated |
| **Flash point** | 15.8 °F (-9.0 °C) estimated |
| **Evaporation rate** | Not available. |
| **Flammability (solid, gas)** | Not applicable. |
| **Upper/lower flammability or explosive limits** | |
| **Flammability limit - lower (%)** | 1.8 % estimated |
| **Flammability limit - upper (%)** | 10.5 % estimated |
| **Explosive limit - lower (%)** | Not available. |
| **Explosive limit - upper (%)** | Not available. |
| **Vapor pressure** | 16.12 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** | 759.2 °F (404 °C) estimated |
| **Decomposition temperature** | Not available. |
| **Viscosity** | Not available. |
| **Other information** | |
| **Density** | 1.60 g/cm3 estimated |
| **Flammability class** | Flammable IB estimated |
| **Percent volatile** | 44.07 w/w % By Weight<br>64.44 v/v % By Volume |
| **Specific gravity** | 1.6 estimated |

## 10. Stability and reactivity

| | |
|---|---|
| **Reactivity** | |
| **Chemical stability** | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| **Possibility of hazardous reactions** | Material is stable under normal conditions.<br>Hazardous polymerization does not occur. |
| **Conditions to avoid** | Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials. |
| **Incompatible materials** | Strong acids. Strong oxidizing agents. Halogens. |
| **Hazardous decomposition products** | No hazardous decomposition products are known. |

## 11. Toxicological information

**Information on likely routes of exposure**

| | |
|---|---|
| **Inhalation** | Harmful if inhaled. May cause damage to organs through prolonged or repeated exposure by inhalation. May cause drowsiness and dizziness. Headache. Nausea, vomiting. |
| **Skin contact** | Harmful in contact with skin. Causes skin irritation. |
| **Eye contact** | Causes serious eye irritation. |
| **Ingestion** | Expected to be a low ingestion hazard. |
| **Symptoms related to the physical, chemical and toxicological characteristics** | Headache. May cause drowsiness and dizziness. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. |

**Information on toxicological effects**

**Acute toxicity** Harmful if inhaled. Harmful in contact with skin. Narcotic effects.

| Components | Species | Test Results |
|---|---|---|
| Aluminum Hydroxide Regulatory (CAS 21645-51-2) | | |
| **Acute** | | |
| **Oral** | | |
| LD50 | Rat | > 5000 mg/kg |
| Carbon Black (CAS 1333-86-4) | | |
| **Acute** | | |
| **Oral** | | |
| LD50 | Rat | > 8000 mg/kg |
| Ethylbenzene (CAS 100-41-4) | | |
| **Acute** | | |
| **Dermal** | | |
| LD50 | Rabbit | 17800 mg/kg |
| **Oral** | | |
| LD50 | Rat | 3500 mg/kg |
| Isobutyl Alcohol (CAS 78-83-1) | | |
| **Acute** | | |
| **Dermal** | | |
| LD50 | Rabbit | 3392 mg/kg |
| **Inhalation** | | |
| LC50 | Rat | 8000 ppm, 4 Hours |
| LD50 | Guinea pig | 19.9 mg/l |
| | Rabbit | 26.25 mg/l |
| | Rat | 19.2 mg/l |
| **Oral** | | |
| LD50 | Mouse | 3500 mg/kg |
| | Rat | 2.46 g/kg |
| Maleic Anhydride (CAS 108-31-6) | | |
| **Acute** | | |
| **Dermal** | | |
| LD50 | Albino rabbit | > 398 mg/kg |
| **Oral** | | |
| LD50 | Albino Sprague-Dawley rat | 900 mg/kg |
| | Mouse | 465 mg/kg |
| N-Butyl Alcohol (CAS 71-36-3) | | |
| **Acute** | | |
| **Dermal** | | |
| LD50 | Rabbit | 3400 mg/kg |

| Components | Species | Test Results |
|---|---|---|
| **Inhalation** | | |
| LC50 | Rat | 8000 ppm, 4 Hours |
| **Oral** | | |
| LD50 | Rat | 790 mg/kg |
| Silica (CAS 7631-86-9) | | |
| **Acute** | | |
| **Oral** | | |
| LD50 | Mouse | > 15000 mg/kg |
| | Rat | > 22500 mg/kg |
| Silica, amorphous, precipitated and gel (CAS 112926-00-8) | | |
| **Acute** | | |
| **Oral** | | |
| LD50 | Mouse | > 15000 mg/kg |
| | Rat | > 22500 mg/kg |
| Toluene (CAS 108-88-3) | | |
| **Acute** | | |
| **Dermal** | | |
| LD50 | Rabbit | 12124 mg/kg |
| | | 14.1 ml/kg |
| **Inhalation** | | |
| LC50 | Mouse | 5320 ppm, 8 Hours |
| | | 400 ppm, 24 Hours |
| | Rat | 26700 ppm, 1 Hours |
| | | 12200 ppm, 2 Hours |
| | | 8000 ppm, 4 Hours |
| **Oral** | | |
| LD50 | Rat | 2.6 g/kg |
| Vinyl Acetate (CAS 108-05-4) | | |
| **Acute** | | |
| **Dermal** | | |
| LD50 | Rabbit | 2335 mg/kg |
| **Inhalation** | | |
| LC50 | Guinea pig | 6215 ppm, 4 Hours |
| | Mouse | 1550 ppm, 4 Hours |
| | Rabbit | 2500 ppm, 4 Hours |
| | Rat | 3680 ppm, 4 Hours |
| **Oral** | | |
| LD50 | Mouse | 1613 mg/kg |
| | Rat | 2920 mg/kg |
| Xylene (CAS 1330-20-7) | | |
| **Acute** | | |
| **Dermal** | | |
| LD50 | Rabbit | > 43 g/kg |
| **Inhalation** | | |
| LC50 | Mouse | 3907 mg/l, 6 Hours |
| | Rat | 6350 mg/l, 4 Hours |
| **Oral** | | |
| LD50 | Mouse | 1590 mg/kg |

| Components | Species | Test Results |
|---|---|---|
| | Rat | 3523 - 8600 mg/kg |

* 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**

**ACGIH Sensitization**

| | |
|---|---|
| Maleic Anhydride (CAS 108-31-6) | Dermal sensitization<br>Respiratory sensitization |

**Respiratory sensitization** Not a respiratory sensitizer.

**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** Suspected of causing cancer.

**IARC Monographs. Overall Evaluation of Carcinogenicity**

| | |
|---|---|
| Carbon Black (CAS 1333-86-4) | 2B Possibly carcinogenic to humans. |
| Crystalline Quartz Regulatory (CAS 14808-60-7) | 1 Carcinogenic to humans. |
| Ethylbenzene (CAS 100-41-4) | 2B Possibly carcinogenic to humans. |
| Silica (CAS 7631-86-9) | 3 Not classifiable as to carcinogenicity to humans. |
| Silica, amorphous, precipitated and gel (CAS 112926-00-8) | 3 Not classifiable as to carcinogenicity to humans. |
| Toluene (CAS 108-88-3) | 3 Not classifiable as to carcinogenicity to humans. |
| Vinyl Acetate (CAS 108-05-4) | 2B Possibly carcinogenic to humans. |
| Xylene (CAS 1330-20-7) | 3 Not classifiable as to carcinogenicity to humans. |

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not listed.

**US. National Toxicology Program (NTP) Report on Carcinogens**

| | |
|---|---|
| Crystalline Quartz Regulatory (CAS 14808-60-7) | Known To Be Human Carcinogen. |

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

| Components | | Species | Test Results |
|---|---|---|---|
| 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 |
| Isobutyl Alcohol (CAS 78-83-1) | | | |
| **Aquatic** | | | |
| Crustacea | EC50 | Water flea (Daphnia pulex) | 950 - 1200 mg/l, 48 hours |
| Fish | LC50 | Bleak (Alburnus alburnus) | 1000 - 3000 mg/l, 96 hours |
| Maleic Anhydride (CAS 108-31-6) | | | |
| **Aquatic** | | | |
| Fish | LC50 | Western mosquitofish (Gambusia affinis) | 230 mg/l, 96 hours |

| Components | | Species | Test Results |
|---|---|---|---|
| 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 |
| 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 (Oncorhynchus kisutch) | 8.11 mg/l, 96 hours |
| Vinyl Acetate (CAS 108-05-4) | | | |
| **Aquatic** | | | |
| Fish | LC50 | Bluegill (Lepomis macrochirus) | 15.04 - 21.54 mg/l, 96 hours |
| Xylene (CAS 1330-20-7) | | | |
| **Aquatic** | | | |
| Fish | LC50 | Bluegill (Lepomis macrochirus) | 7.711 - 9.591 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**

| **Partition coefficient n-octanol / water (log Kow)** | |
|---|---|
| Ethylbenzene | 3.15 |
| Isobutyl Alcohol | 0.76 |
| N-Butyl Alcohol | 0.88 |
| Toluene | 2.73 |
| Vinyl Acetate | 0.73 |
| Xylene | 3.12 - 3.2 |

**Mobility in soil** No data available.

**Other adverse effects** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## 13. Disposal considerations

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

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

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

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

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

## 14. Transport information

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

**DOT**

**UN number** UN1263

**UN proper shipping name** Paint related material including paint thinning, drying, removing, or reducing compound

**Transport hazard class(es)**

**Class** 3

**Subsidiary risk** -

**Label(s)** 3

**Packing group** II

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

| | |
|---|---|
| **Special provisions** | 149, B52, IB2, T4, TP1, TP8, TP28 |
| **Packaging exceptions** | 150 |
| **Packaging non bulk** | 173 |
| **Packaging bulk** | 242 |

**IATA**

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

| | |
|---|---|
| **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** | Not established. |

**DOT**


**IATA; IMDG**


## 15. Regulatory information

| | |
|---|---|
| **US federal regulations** | This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.<br>One or more components are not listed on TSCA. |

**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. |
| Isobutyl Alcohol (CAS 78-83-1) | Listed. |
| Maleic Anhydride (CAS 108-31-6) | Listed. |
| N-Butyl Alcohol (CAS 71-36-3) | Listed. |
| Toluene (CAS 108-88-3) | Listed. |
| Vinyl Acetate (CAS 108-05-4) | Listed. |
| Xylene (CAS 1330-20-7) | Listed. |

**SARA 304 Emergency release notification**

| | |
|---|---|
| Vinyl Acetate (CAS 108-05-4) | 5000 LBS |

**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**

| Chemical name | CAS number | Reportable quantity | Threshold planning quantity | Threshold planning quantity, lower value | Threshold planning quantity, upper value |
|---|---|---|---|---|---|
| Vinyl Acetate | 108-05-4 | 5000 | 1000 lbs | | |

**SARA 311/312 Hazardous chemical** No

**SARA 313 (TRI reporting)**

| Chemical name | CAS number | % by wt. |
|---|---|---|
| Toluene | 108-88-3 | 0 - < 5 |
| Xylene | 1330-20-7 | 0 - < 5 |
| Ethylbenzene | 100-41-4 | 0< 1 |
| Maleic Anhydride | 108-31-6 | 0< 1 |
| N-Butyl Alcohol | 71-36-3 | 0< 1 |
| Vinyl Acetate | 108-05-4 | 0< 1 |

**Other federal regulations**

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Ethylbenzene (CAS 100-41-4)
Maleic Anhydride (CAS 108-31-6)
Toluene (CAS 108-88-3)
Vinyl Acetate (CAS 108-05-4)
Xylene (CAS 1330-20-7)

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Vinyl Acetate (CAS 108-05-4)

**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))**

Carbon Black (CAS 1333-86-4)

Crystalline Quartz Regulatory (CAS 14808-60-7)
Ethylbenzene (CAS 100-41-4)
Maleic Anhydride (CAS 108-31-6)
Toluene (CAS 108-88-3)
Vinyl Acetate (CAS 108-05-4)
Xylene (CAS 1330-20-7)

**US. Massachusetts RTK - Substance List**

Carbon Black (CAS 1333-86-4)
Crystalline Quartz Regulatory (CAS 14808-60-7)
Ethylbenzene (CAS 100-41-4)
Isobutyl Alcohol (CAS 78-83-1)
Magnesium oxide (CAS 1309-48-4)
Maleic Anhydride (CAS 108-31-6)
N-Butyl Alcohol (CAS 71-36-3)
Silica (CAS 7631-86-9)
Silica, amorphous, precipitated and gel (CAS 112926-00-8)
Toluene (CAS 108-88-3)
Vinyl Acetate (CAS 108-05-4)
Xylene (CAS 1330-20-7)

**US. New Jersey Worker and Community Right-to-Know Act**

Carbon Black (CAS 1333-86-4)
Crystalline Quartz Regulatory (CAS 14808-60-7)
Ethylbenzene (CAS 100-41-4)
Isobutyl Alcohol (CAS 78-83-1)
Magnesium oxide (CAS 1309-48-4)
Maleic Anhydride (CAS 108-31-6)
N-Butyl Alcohol (CAS 71-36-3)
Silica (CAS 7631-86-9)
Silica, amorphous, precipitated and gel (CAS 112926-00-8)
Toluene (CAS 108-88-3)
Vinyl Acetate (CAS 108-05-4)
Xylene (CAS 1330-20-7)

**US. Pennsylvania Worker and Community Right-to-Know Law**

Carbon Black (CAS 1333-86-4)
Crystalline Quartz Regulatory (CAS 14808-60-7)
Ethylbenzene (CAS 100-41-4)
Isobutyl Alcohol (CAS 78-83-1)
Magnesium oxide (CAS 1309-48-4)
Maleic Anhydride (CAS 108-31-6)
N-Butyl Alcohol (CAS 71-36-3)
Silica (CAS 7631-86-9)
Toluene (CAS 108-88-3)
Vinyl Acetate (CAS 108-05-4)
Xylene (CAS 1330-20-7)

**US. Rhode Island RTK**

Ethylbenzene (CAS 100-41-4)
Isobutyl Alcohol (CAS 78-83-1)
Maleic Anhydride (CAS 108-31-6)
N-Butyl Alcohol (CAS 71-36-3)
Toluene (CAS 108-88-3)
Vinyl Acetate (CAS 108-05-4)
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**

| | |
|---|---|
| Carbon Black (CAS 1333-86-4) | Listed: February 21, 2003 |
| Crystalline Quartz Regulatory (CAS 14808-60-7) | Listed: October 1, 1988 |
| 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**

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

*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** 08-26-2023

**Version #** 02

**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.