

SAFETY DATA SHEET

1. Identification

| | | |
|---|---|--------------|
| Product identifier | CIM 61TN Epoxy Resin | |
| Other means of identification | None. | |
| Recommended use | Epoxy Primer for CIM Elastomeric Urethanes | |
| Recommended restrictions | None known. | |
| Manufacturer/Importer/Supplier/Distributor information | | |
| Manufacturer | | |
| Company name | CIM INDUSTRIES INC | |
| Address | 6900 NELMS STREET HOUSTON, TX 77061 United States | |
| Telephone | General Assistance | 800 543-3458 |
| E-mail | info@chasecorp.com | |
| Emergency phone number | Chemtrec (US - 24 hrs) | 800 424-9300 |
| | Chemtrec (INTL - 24 hrs) | 703-527-3887 |

2. Hazard(s) identification

| | | |
|------------------------------|--|---|
| Physical hazards | Flammable liquids | Category 2 |
| Health hazards | Acute toxicity, dermal | Category 4 |
| | Skin corrosion/irritation | Category 2 |
| | Serious eye damage/eye irritation | Category 2 |
| | Sensitization, skin | Category 1 |
| | Carcinogenicity | Category 2 |
| | Specific target organ toxicity, single exposure | Category 3 respiratory tract irritation |
| | Specific target organ toxicity, repeated exposure | Category 2 |
| Environmental hazards | Hazardous to the aquatic environment, acute hazard | Category 3 |
| | Hazardous to the aquatic environment, long-term hazard | Category 2 |
| 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. May cause an allergic skin reaction. Causes serious eye irritation. May cause respiratory irritation. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure. Harmful 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. 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.

Response

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse. In case of fire: Use appropriate media to extinguish. Collect spillage.

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

92.41% of the mixture consists of component(s) of unknown acute dermal toxicity. 85.23% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 53.23% 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 | % |
|---|--------------------------|------------|-----------|
| BISPHENOL A-(EPICHLORHYDRIN) EPOXY RESIN (REACTION PRODUCT) | | 25068-38-6 | 30 - < 40 |
| TITANIUM DIOXIDE | | 13463-67-7 | 20 - < 30 |
| n-BUTYL ACETATE | | 123-86-4 | 10 - < 20 |
| Quartz | | 14808-60-7 | 10 - < 20 |
| CALCIUM SILICATE | | 1344-95-2 | 5 - < 10 |
| ISOPROPYL ALCOHOL | | 67-63-0 | 1 - < 3 |
| METHYL ETHYL KETONE | | 78-93-3 | 1 - < 3 |
| Xylene | | 1330-20-7 | 1 - < 3 |
| ETHYLBENZENE | | 100-41-4 | < 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.

Composition comments

Note: As supplied and during application the quartz, titanium dioxide and calcium silicate are bound within the CIM matrix. The quartz, titanium dioxide and calcium silicate are not in a respirable form and should not pose a hazard to the user.

4. First-aid measures

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Skin contact

Remove contaminated clothing immediately and wash skin with soap and water. Get medical advice/attention if you feel unwell. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. Wash contaminated clothing before reuse.

Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion

Rinse mouth. Get medical advice/attention if you feel unwell.

Most important symptoms/effects, acute and delayed

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash. Prolonged exposure may cause chronic effects.

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| 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. Alcohol resistant foam. Carbon dioxide (CO ₂). 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

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| 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). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. This product is miscible in water. Prevent entry into waterways, sewer, basements or confined areas. 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. Following product recovery, flush area with water. Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. |
| Environmental precautions | Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Use appropriate containment to avoid environmental contamination. |

7. Handling and storage

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Explosion-proof general and local exhaust ventilation. Minimize fire risks from flammable and combustible materials (including combustible dust and static accumulating liquids) or dangerous reactions with incompatible materials. Handling operations that can promote accumulation of static charges include but are not limited to: mixing, filtering, pumping at high flow rates, splash filling, creating mists or sprays, tank and container filling, tank cleaning, sampling, gauging, switch loading, vacuum truck operations. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not breathe mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Should be handled in closed systems, if possible. 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 |
|-----------------------------------|------|-----------------------|----------------------|
| CALCIUM SILICATE (CAS 1344-95-2) | PEL | 5 mg/m ³ | Respirable fraction. |
| | | 15 mg/m ³ | Total dust. |
| ETHYLBENZENE (CAS 100-41-4) | PEL | 435 mg/m ³ | |
| ISOPROPYL ALCOHOL (CAS 67-63-0) | PEL | 100 ppm | |
| | | 980 mg/m ³ | |
| METHYL ETHYL KETONE (CAS 78-93-3) | PEL | 400 ppm | |
| | | 590 mg/m ³ | |
| n-BUTYL ACETATE (CAS 123-86-4) | PEL | 200 ppm | |
| | | 710 mg/m ³ | |
| TITANIUM DIOXIDE (CAS 13463-67-7) | PEL | 150 ppm | Total dust. |
| | | 15 mg/m ³ | |
| Xylene (CAS 1330-20-7) | PEL | 435 mg/m ³ | |
| | | 100 ppm | |

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

| Components | Type | Value | Form |
|-------------------------|------|-----------------------|-------------|
| Quartz (CAS 14808-60-7) | TWA | 0.3 mg/m ³ | Total dust. |
| | | 0.1 mg/m ³ | Respirable. |
| | | 2.4 mppcf | Respirable. |

US. ACGIH Threshold Limit Values

| Components | Type | Value | Form |
|----------------------------------|------|----------------------|------|
| CALCIUM SILICATE (CAS 1344-95-2) | TWA | 10 mg/m ³ | |
| ETHYLBENZENE (CAS 100-41-4) | TWA | 20 ppm | |

US. ACGIH Threshold Limit Values

| Components | Type | Value | Form |
|--------------------------------------|------|-------------|----------------------|
| ISOPROPYL ALCOHOL (CAS 67-63-0) | STEL | 400 ppm | |
| | TWA | 200 ppm | |
| METHYL ETHYL KETONE (CAS 78-93-3) | STEL | 300 ppm | |
| | TWA | 200 ppm | |
| n-BUTYL ACETATE (CAS 123-86-4) | STEL | 200 ppm | |
| | TWA | 150 ppm | |
| Quartz (CAS 14808-60-7) | TWA | 0.025 mg/m3 | Respirable fraction. |
| TITANIUM DIOXIDE (CAS 13463-67-7) | TWA | 10 mg/m3 | |
| Xylene (CAS 1330-20-7) | STEL | 150 ppm | |
| | TWA | 100 ppm | |

US. NIOSH: Pocket Guide to Chemical Hazards

| Components | Type | Value | Form |
|--------------------------------------|------|---------------------------------|------------------|
| CALCIUM SILICATE (CAS 1344-95-2) | TWA | 5 mg/m3 | Respirable. |
| | | 10 mg/m3 | Total |
| ETHYLBENZENE (CAS 100-41-4) | STEL | 545 mg/m3 | |
| | TWA | 125 ppm 435 mg/m3 | |
| ISOPROPYL ALCOHOL (CAS 67-63-0) | STEL | 100 ppm 1225 mg/m3 | |
| | TWA | 500 ppm 980 mg/m3 400 ppm | |
| METHYL ETHYL KETONE (CAS 78-93-3) | STEL | 885 mg/m3 | |
| | TWA | 300 ppm 590 mg/m3 200 ppm | |
| n-BUTYL ACETATE (CAS 123-86-4) | STEL | 950 mg/m3 | |
| | TWA | 200 ppm 710 mg/m3 150 ppm | |
| Quartz (CAS 14808-60-7) | TWA | 0.05 mg/m3 | Respirable dust. |

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 | * |
| ISOPROPYL ALCOHOL (CAS 67-63-0) | 40 mg/l | Acetone | Urine | * |
| METHYL ETHYL KETONE (CAS 78-93-3) | 2 mg/l | MEK | Urine | * |
| Xylene (CAS 1330-20-7) | 1.5 g/g | Methylhippuric acids | Creatinine in urine | * |

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

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| 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 | Observe any medical surveillance requirements. When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace. |

9. Physical and chemical properties

Appearance

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|--|--------------------------------|
| Physical state | Liquid. |
| Form | Viscous Liquid. |
| Color | Yellow. |
| Odor | Solvent. |
| Odor threshold | Not available. |
| pH | Not available. |
| Melting point/freezing point | -108.4 °F (-78 °C) estimated |
| Initial boiling point and boiling range | 258.98 °F (126.1 °C) estimated |
| Flash point | 24.8 °F (-4.0 °C) |
| Evaporation rate | Not available. |
| Flammability (solid, gas) | Not applicable. |

Upper/lower flammability or explosive limits

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|--|----------------------------------|
| Flammability limit - lower (%) | 1.4 % estimated |
| Flammability limit - upper (%) | 7.5 % estimated |
| Explosive limit - lower (%) | 1 % v/v |
| Explosive limit - upper (%) | 15 % v/v |
| Vapor pressure | 1728.97 hPa estimated |
| Vapor density | Not available. |
| Relative density | Not available. |
| Solubility(ies) | |
| Solubility (water) | Very Slightly Soluble |
| Partition coefficient (n-octanol/water) | Not available. |
| Auto-ignition temperature | > 842 °F (> 450 °C) |
| Decomposition temperature | Not available. |
| Viscosity | Not available. |
| Other information | |
| Density | 2.68 g/cm ³ estimated |
| Explosive properties | Not explosive. |

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| Flammability class | Flammable IB estimated |
| Oxidizing properties | Not oxidizing. |
| Percent volatile | 19.5 % estimated |
| Specific gravity | 1.6 |
| VOC (Weight %) | 240 g/l when mixed with the 61TN Hardener (per EPA Method 24) |

10. Stability and reactivity

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| 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 | No dangerous reaction known under conditions of normal use. |
| 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. Powerful oxidizers. Nitrates. Halogens. Chlorine. |
| Hazardous decomposition products | No hazardous decomposition products are known. |

11. Toxicological information

Information on likely routes of exposure

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| Inhalation | May cause damage to organs through prolonged or repeated exposure by inhalation. May cause irritation to the respiratory system. |
| Skin contact | Harmful in contact with skin. Causes skin irritation. May cause an allergic skin reaction. |
| Eye contact | Causes serious eye irritation. |
| Ingestion | Expected to be a low ingestion hazard. |

Symptoms related to the physical, chemical and toxicological characteristics Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

Information on toxicological effects

Acute toxicity Harmful in contact with skin. May cause respiratory irritation. May cause an allergic skin reaction.

| Product | Species | Test Results |
|---------------------------------|------------|------------------------------|
| CIM 61TN Epoxy Resin | | |
| Acute | | |
| Dermal | | |
| LD50 | Rabbit | 2082 g/kg estimated |
| Inhalation | | |
| LC50 | Wistar rat | 1333 mg/l, 4 Hours estimated |
| Oral | | |
| LD50 | Mouse | 17468 mg/kg estimated |
| | Rabbit | 201 g/kg estimated |
| | Rat | 37671 mg/kg estimated |
| Components | Species | Test Results |
| ETHYLBENZENE (CAS 100-41-4) | | |
| Acute | | |
| Dermal | | |
| LD50 | Rabbit | 17800 mg/kg |
| Oral | | |
| LD50 | Rat | 3500 mg/kg |
| ISOPROPYL ALCOHOL (CAS 67-63-0) | | |
| Acute | | |
| Dermal | | |
| LD50 | Rabbit | 12800 mg/kg |

| Components | Species | Test Results |
|-----------------------------------|------------|-----------------------|
| Oral | | |
| LD50 | Dog | 4797 mg/kg |
| | Mouse | 3600 mg/kg |
| | Rabbit | 5.03 g/kg |
| | Rat | 4.7 g/kg |
| METHYL ETHYL KETONE (CAS 78-93-3) | | |
| Acute | | |
| Dermal | | |
| LD50 | Rabbit | > 8000 mg/kg |
| Inhalation | | |
| LC50 | Mouse | 11000 ppm, 45 Minutes |
| | Rat | 11700 ppm, 4 Hours |
| Oral | | |
| LD50 | Mouse | 670 mg/kg |
| | Rat | 2300 - 3500 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 |
| 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 |
| | Rat | 3523 - 8600 mg/kg |

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

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| Skin corrosion/irritation | Causes skin irritation. |
| Serious eye damage/eye irritation | Causes serious eye irritation. |
| Respiratory or skin sensitization | |
| Respiratory sensitization | Not a respiratory sensitizer. |
| 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. |
| Quartz (CAS 14808-60-7) | 1 Carcinogenic to humans. |
| TITANIUM DIOXIDE (CAS 13463-67-7) | 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 regulated. | |
| US. National Toxicology Program (NTP) Report on Carcinogens | |
| Quartz (CAS 14808-60-7) | Known To Be Human Carcinogen. |

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|---|---|
| Reproductive toxicity | Components in this product have been shown to cause birth defects and reproductive disorders in laboratory animals. |
| Specific target organ toxicity - single exposure | May cause respiratory irritation. |
| Specific target organ toxicity - repeated exposure | May cause damage to organs through prolonged or repeated exposure. |
| Aspiration hazard | Not an aspiration hazard. |
| Chronic effects | May cause 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.

| Product | Species | Test Results | |
|-----------------------------------|---------|---|-----------------------------------|
| CIM 61TN Epoxy Resin | | | |
| Aquatic | | | |
| Crustacea | EC50 | Daphnia | 417.8165 mg/l, 48 hours estimated |
| Fish | LC50 | Fish | 345.8074 mg/l, 96 hours estimated |
| 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 |
| ISOPROPYL ALCOHOL (CAS 67-63-0) | | | |
| Aquatic | | | |
| Fish | LC50 | Bluegill (Lepomis macrochirus) | > 1400 mg/l, 96 hours |
| METHYL ETHYL KETONE (CAS 78-93-3) | | | |
| Aquatic | | | |
| Crustacea | EC50 | Water flea (Daphnia magna) | 4025 - 6440 mg/l, 48 hours |
| Fish | LC50 | Sheepshead minnow (Cyprinodon variegatus) | > 400 mg/l, 96 hours |
| n-BUTYL ACETATE (CAS 123-86-4) | | | |
| Aquatic | | | |
| Fish | LC50 | Fathead minnow (Pimephales promelas) | 17 - 19 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 |
| 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 |
| ISOPROPYL ALCOHOL | 0.05 |
| METHYL ETHYL KETONE | 0.29 |
| n-BUTYL ACETATE | 1.78 |
| 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

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| 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

DOT

Not regulated as dangerous goods.

IATA

| | |
|-------------------------------------|---|
| UN number | UN1139 |
| UN proper shipping name | Coating Solution |
| Transport hazard class(es) | |
| Class | 3 |
| Subsidiary risk | - |
| Packing group | II |
| Environmental hazards | Yes |
| ERG Code | 3H |
| Special precautions for user | Read safety instructions, SDS and emergency procedures before handling. |
| Other information | |
| Passenger and cargo aircraft | Allowed with restrictions. |
| Cargo aircraft only | Allowed with restrictions. |

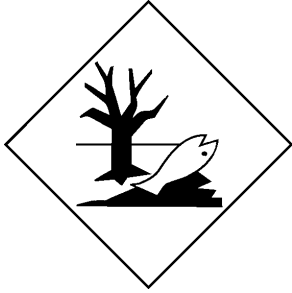
IMDG

| | |
|---|---|
| UN number | UN1139 |
| UN proper shipping name | Coating Solution, MARINE POLLUTANT |
| Transport hazard class(es) | |
| Class | 3 |
| Subsidiary risk | - |
| Packing group | II |
| Environmental hazards | |
| Marine pollutant | Yes |
| 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. |

IATA; IMDG



Marine pollutant



General information IMDG Regulated Marine Pollutant.

15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

| | |
|-----------------------------------|---------|
| ETHYLBENZENE (CAS 100-41-4) | Listed. |
| ISOPROPYL ALCOHOL (CAS 67-63-0) | Listed. |
| METHYL ETHYL KETONE (CAS 78-93-3) | Listed. |
| n-BUTYL ACETATE (CAS 123-86-4) | Listed. |
| Xylene (CAS 1330-20-7) | Listed. |

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

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)

| Chemical name | CAS number | % by wt. |
|-------------------|------------|----------|
| ISOPROPYL ALCOHOL | 67-63-0 | 1 - < 3 |
| Xylene | 1330-20-7 | 1 - < 3 |
| ETHYLBENZENE | 100-41-4 | < 1 |

Other federal regulations

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

ETHYLBENZENE (CAS 100-41-4)
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) Not regulated.

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

METHYL ETHYL KETONE (CAS 78-93-3) 6714

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

METHYL ETHYL KETONE (CAS 78-93-3) 35 %WV

DEA Exempt Chemical Mixtures Code Number

METHYL ETHYL KETONE (CAS 78-93-3) 6714

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

| | |
|-----------------------------------|--------------|
| ISOPROPYL ALCOHOL (CAS 67-63-0) | Low priority |
| METHYL ETHYL KETONE (CAS 78-93-3) | Low priority |
| n-BUTYL ACETATE (CAS 123-86-4) | Low priority |

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 ALCOHOL (CAS 67-63-0)
METHYL ETHYL KETONE (CAS 78-93-3)
Quartz (CAS 14808-60-7)
TITANIUM DIOXIDE (CAS 13463-67-7)
Xylene (CAS 1330-20-7)

US. Massachusetts RTK - Substance List

CALCIUM SILICATE (CAS 1344-95-2)
ETHYLBENZENE (CAS 100-41-4)
ISOPROPYL ALCOHOL (CAS 67-63-0)
METHYL ETHYL KETONE (CAS 78-93-3)
n-BUTYL ACETATE (CAS 123-86-4)
Quartz (CAS 14808-60-7)
TITANIUM DIOXIDE (CAS 13463-67-7)
Xylene (CAS 1330-20-7)

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

CALCIUM SILICATE (CAS 1344-95-2)
ETHYLBENZENE (CAS 100-41-4)
ISOPROPYL ALCOHOL (CAS 67-63-0)
METHYL ETHYL KETONE (CAS 78-93-3)
n-BUTYL ACETATE (CAS 123-86-4)
Quartz (CAS 14808-60-7)
TITANIUM DIOXIDE (CAS 13463-67-7)
Xylene (CAS 1330-20-7)

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

CALCIUM SILICATE (CAS 1344-95-2)
ETHYLBENZENE (CAS 100-41-4)
ISOPROPYL ALCOHOL (CAS 67-63-0)
METHYL ETHYL KETONE (CAS 78-93-3)
n-BUTYL ACETATE (CAS 123-86-4)
Quartz (CAS 14808-60-7)
TITANIUM DIOXIDE (CAS 13463-67-7)
Xylene (CAS 1330-20-7)

US. Rhode Island RTK

ETHYLBENZENE (CAS 100-41-4)
ISOPROPYL ALCOHOL (CAS 67-63-0)
METHYL ETHYL KETONE (CAS 78-93-3)
n-BUTYL ACETATE (CAS 123-86-4)
Xylene (CAS 1330-20-7)

US. California Proposition 65

Titanium Dioxide and Quartz are listed due to their respirable nature in powder form. As supplied and applied these components are bound within the CIM matrix and are not expected to be in a respirable form. WARNING: This product contains a chemical known to the State of California to cause cancer.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

| | |
|-----------------------------------|---------------------------|
| ETHYLBENZENE (CAS 100-41-4) | Listed: June 11, 2004 |
| Quartz (CAS 14808-60-7) | Listed: October 1, 1988 |
| TITANIUM DIOXIDE (CAS 13463-67-7) | Listed: September 2, 2011 |

International Inventories

| Country(s) or region | Inventory name | On inventory (yes/no)* |
|----------------------|--|------------------------|
| Australia | Australian Inventory of Chemical Substances (AICS) | Yes |
| Canada | Domestic Substances List (DSL) | Yes |

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

*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 | 05-26-2015 |
| Revision date | 11-09-2016 |
| Version # | 02 |
| HMIS® ratings | Health: 2* Flammability: 3 Physical hazard: 0 |
| NFPA ratings | Health: 2 Flammability: 3 Instability: 0 |
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| Revision information | This document has undergone significant changes and should be reviewed in its entirety. |