

# Material Safety Data Sheet

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## Section 1: Product and Company Identification

Product Name: Terroxy® Resin Systems — Iso-Crack Epoxy Membrane, Part A

Product Use Description: Resin Compound

Company: Terrazzo & Marble Supply Companies  
77 South Wheeling Road  
Wheeling, Illinois 60090

Telephone: 847.353.8000

Emergency Telephone Number: 800.424.9300 USA  
01.703.527.3887 International

## Section 2: Composition / Information on Ingredients

| Chemical Name                        | CAS #       | OSHA PEL*  | ACGIH TLV*                                | WT %    |
|--------------------------------------|-------------|--|---|---------|
| Epoxy Resin                          | 25068-38-6  | N/E  | N/E                                       | 55-75   |
| Calcium Carbonate                    | 1317-65-3   | 5mg/m <sup>3</sup> Respirable Dust<br>15mg/m <sup>3</sup> Total Dust | 2mg/m <sup>3</sup> Respirable Dust<br>--- | 15-25   |
| Glycidyl Ether                       | 68609-97-2  | N/E  | N/E                                       | 10-20   |
| Titanium Dioxide                     | 13463-67-7  | 10mg/m <sup>3</sup> Total Dust                                       | 10mg/m <sup>3</sup> Total Dust            | 0-4     |
| Silicon Dioxide,<br>Amorphous, Fumed | 112945-52-5 | N/E  | N/E                                       | 0.5-1.5 |
| Crystalline Silica                   | 14808-60-7  | 0.1mg/m <sup>3</sup> Respirable Dust                                 | 0.05mg/m <sup>3</sup> Respirable Dust     | 0 - 0.3 |

■ N/E — Not Established

■ ALL ingredients are registered on TSCA

■ \*Unless otherwise noted, all PEL and TLV Values are reported as 8 hour time weighted averages (TWA)

The exposure limits established for ingredients of this product apply to nuisance dusts from inert fillers. These fillers are blended into a liquid and pose no hazard as supplied. Substances listed are present in concentration of 1% or greater, or 0.1% if cited as a potential Carcinogen in the OSHA Hazards Communication Standard. Where proprietary ingredient is listed, the identity is available as provided in 29 CFR 1910.1200.

## Section 3: Hazards Identification

Emergency Overview: Moderate eye irritant.  
Causes skin irritation. May cause allergic skin reaction.  
Harmful if swallowed.  
Cancer hazard.

### Section 3: Hazards Identification (continued)

**HMIS RATING:** HEALTH=2, FLAMMABILITY=1, REACTIVITY=0  
See SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for personal protective equipment recommendations.

#### Potential Health Effects

**Eye contact :** Can cause moderate irritation, tearing and reddening, but not likely to permanently injure eye tissue.  
**Skin contact :** Can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage. May cause sensitization.  
**Inhalation :** Can cause minor respiratory irritation. Inhalation of dusts during cutting, grinding or sanding of this product may cause irritation of the respiratory tract. Overexposure to crystalline silica may cause silicosis. This product contains one or more materials that may be hazardous when present as an airborne dust. During normal handling of the product, the material is encapsulated within the product and will not present an exposure risk. Once the product has reached its final stage and is abraded and disturbed, dusting and exposure may occur.  
**Ingestion :** Ingestion is not an anticipated route of exposure. Harmful if swallowed. Irritating to mouth, throat, and stomach.  
**Chronic Health Hazard :** Target Organs: Skin, Lungs  
**Regulated Carcinogen Status:** Unless noted below, this product does not contain regulated levels of NTP, IARC, ACGIH, or OSHA listed carcinogens.  
 Crystalline Silica

**Aggravated Medical Conditions:** Skin disease including eczema and sensitization; Lung disease

### Section 4: First Aid Measures

**General advice:** Seek medical advice. If breathing has stopped or is labored, give assisted respirations. Supplemental oxygen may be indicated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately.  
**Eye contact :** Flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention.  
**Skin contact :** Wash with soap and water. Remove contaminated clothing and launder. Get immediate medical attention if irritation develops or persists.  
**Ingestion :** Do not induce vomiting. Seek medical attention immediately. Drink two glasses of water or milk to dilute. Do not give anything by mouth to an unconscious person. Induced vomiting may lead to aspiration of material into the lungs potentially causing chemical pneumonitis that may be fatal.  
**Inhalation :** Move to fresh air. Call a physician if symptoms persist.

### Section 5: Fire Fighting Measures

**Flash Point :** Not Applicable  
**Autoignition Temperature :** Not Established  
**Lower Explosive Limit (% in air) :** Not Established  
**Upper Explosive Limit (% in air) :** Not Established  
**Extinguishing Media :** Use water spray, foam, dry chemical or carbon dioxide  
**Unusual Fire & Explosion Hazards :** Material will burn in a fire.  
**Special Fire Fighting Instructions :** Persons exposed to products of combustion should wear self-containing breathing apparatus and full protective equipment.  
**Hazardous Combustion Products :** Carbon dioxide, Carbon monoxide

### Section 6: Accidental Release Measures

**Special Protection:** Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this MSDS. Additional precautions may be necessary based on special circumstances created by the spill including: the material spilled, the quantity of the spill, the area in which the spill occurred.  
**Clean-up:** Dike if necessary, contain material with inert absorbent and transfer to containers for disposal. Keep spilled product out of sewers, watersheds, or water systems.

Transport Emergency Phone Number: (CHEMTREC) 1-800-424-9300

## Section 7: Handling and Storage

**Handling:** Harmful or irritation material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area.

**Storage:** Store in a cool dry place.

## Section 8: Exposure Controls / Personal Protection

### Personal Protective Equipment:

**Respiratory Protection:** If vapor or mist is generated and the occupational exposure limit is exceeded, use appropriate NIOSH/MSHA approved self contained breathing equipment or a full face respirator. Respirators should be selected by and used following requirements found in OSHA's respirator standards (29 CFR 1910.134). Not required for properly ventilated areas.

**Ventilation:** Mechanical ventilation required if TLV is expected to be exceeded in confined areas.

**Hand Protection:** Nitrile rubber gloves.

**Eye Protection:** Wear safety glasses with side shields when handling this product. Wear additional eye protection such as chemical splash goggles and/or face shield when the possibility exists for eye contact with splashing or spraying liquid, or airborne material. Have an eye wash station available.

**Skin and Body Protection:** Avoid skin contact by wearing chemically resistant gloves and long sleeved shirt. An apron may be appropriate if splashing can occur.

**Exposure Limits:**

| Chemical Name      | ACGIH Exposure limit             | AIHA WEEL       |
|--------------------|----------------------------------|-----------------|
| Epoxy Resin        | Not Established                  | Not Established |
| Calcium Carbonate  | TWA 10MG/M3                      | Not Established |
| Titanium Dioxide   | TWA 10MG/M3                      | Not Established |
| Crystalline Silica | TWA (Respirable Dust) 0.05 MG/M3 | Not Established |

## Section 9: Physical and Chemical Properties

**Physical State:** Liquid

**Color:** Clear

**Odor:** Mild

**Odor Threshold:** Not established

**Weight Per Gallon:** 10.74 lbs.

**Specific Gravity:** 1.29

**Solids (% by weight):** 100.00

**V.O.C.** 0.00 g/L

**pH:** Not Established

**Boiling point/Range:** Not Established

**Vapor pressure:** Not Applicable

**Vapor density:** Heavier than air

**Evaporator Rate:** Slower than N-Butyl Acetate

**Octanol/Water Coefficient:** Not Established

**Freezing/Melting Point:** Not Established

**Solubility in Water:** Negligible

## Section 10: Physical and Chemical Properties

Stability : Stable under normal conditions.  
 Chemical Incompatibility: Not established.  
 Hazardous Polymerization: Will not occur.  
 Hazardous Decomposition Products: Carbon monoxide, carbon dioxide (CO<sub>2</sub>).

## Section 11: Toxicological Information

| Chemical Name      | LD50 / LC50              |
|--------------------|--------------------------|
| Epoxy Resin        | Not Established          |
| Calcium Carbonate  | Oral LD50 Rat=6450 mg/kg |
| Titanium Dioxide   | Not Established          |
| Crystalline Silica | Not Established          |

Toxicology Summary : No additional health information available.

## Section 12: Ecological Information

Overview: *No ecological information available.*

## Section 13: Disposal Considerations

To the best of our knowledge, this product does not meet the definition of hazardous waste under the U.S. EPA Hazardous Waste Regulations 40 CFR 261. Disposal via incineration at an approved facility is recommended. Consult state, local or provincial authorities for more restrictive requirements.

## Section 14: Transport Information

Consult Bill of Lading for transportation information

DOT: Not Regulated  
 IATA: Not Regulated

## Section 15: Regulatory Information

OSHA Hazard Communication Standard (29 CFR 1910.1200) Hazard Class(es) Corrosive, Sensitizer.

| Country     | Regulatory List | Notification   |
|-------------|-----------------|--|
| USA         | TSCA            | This product is in compliance with the Toxic Substances Control Act's Inventory requirements.                        |
| EU          | EINECS          | This product is in compliance with the European Inventory of Notified and Existing Chemical Substances requirements. |
| Canada      | DSL             | This product is in compliance with the Canadian Domestic Substance List requirements.                                |
| Australia   | AICS            | This product is in compliance with the Australian Inventory of Chemical Substances requirements.                     |
| Japan       | ENCS            | Included on Inventory  |
| South Korea | ECL             | Included on Inventory  |
| China       | SEPA            | Included on Inventory  |
| Philippines | PICCS           | Included on Inventory  |

This product may contain substances that are regulated for export by various government agencies (such as the Environmental Protection Agency, the Bureau of Industry and Security, or the Drug Enforcement Administration, among others). Before exporting this product from the USA or Canada, we recommend you contact us to request an export review.

#### Federal Reporting

##### EPA SARA Title III Section 313

Unless listed below, this product does not contain toxic chemical(s) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR part 372. EPA has advised that when a percentage range is listed the midpoint may be used to fulfill reporting obligations.

**WHMIS STATUS:** Unless listed below, This product is not controlled under the Canadian Workplace Hazardous Materials Information System.

D2B D2A

#### STATE REPORTING

##### Proposition 65, The Safe Drinking Water and Toxic Enforcement Act of 1986:

Unless listed below, this product does not contain known levels of any chemical known to the State of California to cause cancer or reproductive harm.

| Chemical Name                 | CAS #     | Percent    |
|-------------------------------|-----------|------------|
| Quartz (Carcinogen)           | 1408-60-7 | 0.1 - 1    |
| Carbon black (Carcinogen)     | 1333-86-4 | 0.01 - 0.1 |
| Nickel (Metallic)(Carcinogen) | 7440-02-0 | <10ppm     |
| Epichlorohydrin (Carcinogen)  | 106-89-8  | <10ppm     |

## Section 16: Other Information

#### HMIS Rating

Health: 2  
 Flammability: 1  
 Reactivity: 0  
 Physical hazard : C

This Material Safety Data Sheet, is prepared to comply with the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standards (29 CFR 1910.1200) and the Canadian Workplace Hazardous Materials Information System (WHMIS).

Prepared by Terrazzo & Marble Supply Companies.

Data and recommendations presented herein are based upon ours and other researchers and are believed to be accurate. The products discussed are distributed without warranty (expressed or implied) and the customer shall make his own determination of suitability for his particular purpose.