

MATERIAL SAFETY DATA SHEET

Company Name: Superior Stone Products, Inc.
Product Name: **Superior E-5000 - Part B**
Issue Date: 01/01/04
Revision Date: 02/04/08
MSDS Number: SUP-90491



Section I – Chemical Product and Company Identification

Product Identifier: Superior E-5000 - Part B
Product Description: Epoxy Adhesive and Filler - Part B
Chemical Family: Amine

MANUFACTURER:
Superior Stone Products, Inc.
8580 Byron Commerce Drive
Byron Center, MI 49315
616-583-0171

**24 Hour Emergency Telephone Number:
CHEMTREC 800-424-9300**

Section II – Composition/Information on Ingredients

If present, IARC, NTP and OSHA carcinogens and chemicals subject to the reporting requirements of SARA title III Section 313 are identified in this Section.

| <u>Ingredient</u> | <u>CAS#</u> | <u>% (By Weight)</u> | <u>OSHA PEL</u> | <u>ACGIH TLV</u> |
|---|-------------|----------------------|-----------------|------------------|
| Diethylenetriamine | 111-40-0 | <10% | 10 ppm | 1 ppm |
| Bisphenol, A | 80-05-7 | <10% | Not Established | Not Established |
| Benzyl Alcohol | 100-51-6 | <20% | Not Established | Not Established |
| Nonylphenol | 25154-52-3 | <25% | Not Established | Not Established |
| Isophorone Diamine | 2855-13-2 | <30% | Not Established | Not Established |
| DETA-Reaction products w/ ethylene oxide | 28063-82-3 | <10% | Not Established | Not Established |

Section III – Hazards Identification/Possible Routes of Entry

Caution - Corrosive

Caution - Combustible Liquid

Ingestion: Toxic or harmful if swallowed. May cause severe burns of the mouth and throat as well as a danger of perforation of the esophagus and the stomach. May cause gastrointestinal disturbances, pain and discomfort. May cause central nervous system effects such as headaches, nausea, dizziness, confusion and breathing difficulties.

Skin: Product is severely irritating to the skin. May cause skin sensitization and chemical burns. If absorbed through the skin, may cause central nervous system effects such as headaches, nausea, dizziness, confusion and breathing difficulties.

Eye: May cause severe eye irritation and burns. May cause lachrymation (tears). Severe damage to the eyes may occur causing blindness.

Inhalation: May cause nose, throat and lung irritation or burns. May cause central nervous system effects such as headaches, nausea, dizziness, confusion and breathing difficulties if vapors/aerosols are inhaled in high concentrations.

HMIS Codes:

Fire: 1
Health: 3
Reactivity: 0
Personal Protective Index: X

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Section IV – First Aid Measures

If Swallowed: Do not induce vomiting unless directed by a medical professional. Never give anything by mouth to an unconscious person. Prevent aspiration of vomit. Turn victims head to the side. Seek immediate medical attention.

Skin Contact: Remove contaminated clothing. Immediately flush area with cool water. Continue irrigating skin until medical assistance is obtained. If clothing is stuck to the burn area do not pull off, but cut around it. Cover burn area with a sterile dressing. Seek immediate medical attention.

If Inhaled: Remove to fresh air. If breathing is labored or has stopped artificial respiration may be provided by a certified individual at the direction of a medical professional. Seek immediate medical attention.

Eyes: Hold eyelids apart and immediately flush with water for at least 15 minutes. Seek immediate medical attention. If medical attention is not immediately available continue irrigation until patient receives medical care.

Section V - Fire Fighting Measures

Flash Point: 95°C (203°F) (Estimated)

Class IIIB Combustible Liquid

Hazardous Products of Combustion: Carbon monoxide may be generated if incomplete combustion occurs. May generate ammonia and toxic nitrogen oxide gasses. Do not allow runoff from fire fighting to enter drains or water courses. Use of water may result in the formation of very toxic aqueous solutions. Downwind personnel should be evacuated.

Extinguishing Agents: Use water fog, foam, dry chemical, dry sand, limestone powder or carbon dioxide. Water spray may be used to cool down tanks in proximity to the fire.

Special Fire Fighting Procedures: Utilize full protective clothing and self-contained breathing apparatus

Unusual Fire And Explosion Hazards: Intense heat may cause nearby containers to erupt.

Section VI - Accidental Release Measures

Procedure For Cleanup: Ventilate area. Use self contained breathing apparatus and chemically protective clothing. Wear suitable protective clothing, clothes and eye/face protection. Absorb spill with an absorbent material such as sawdust, vermiculite or sand and place in a closed chemical container. If large spill, dike the area to prevent this material from entering water systems or sewers. Prevent contamination of soil and water. Dispose of material in accordance with federal, state/provincial and local regulations.

Section VII - Handling and Storage

General Procedures: Read and observe all precautions on product label and material safety data sheet before handling. Refer to product label or manufactures technical bulletins for the proper use and handling of this material. Avoid contact with skin, eyes and clothing. Do not use or store near flame, sparks or hot surfaces. Use only in well ventilated area. Keep container closed. Do not weld, heat or drill container.

Storage Temperature: 50° - 100° F

Shelf Life: One (1) year when stored at room temperature.

Section VIII - Exposure Controls/Personal Protection

Respiratory Protection: Not normally required if adequate ventilation is provided. In a confined space, self-contained breathing apparatus may be required. Use only a NIOSH/MSHA approved respiratory protection if exposed to vapors above the PEL.

Ventilation: Normal ventilation is typically adequate in most situations. If the PEL is exceed, provide explosion proof ventilation to reduce these levels.

Protective Gloves: Wear appropriate protective gloves to prevent skin contact.

Eye Protection: Wear safety glasses, face shield or chemical goggles.

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Section IX – Physical and Chemical Properties

Form: Liquid

Appearance: Light Amber to Amber

Odor: Amine

Boiling Point: > 200°C (>392°F) (estimated)

Vapor Pressure: <1.00 mmHg @ 70°F (21°C)

Solubility in Water: Slightly Soluble

Section X - Stability and Reactivity

Stability: Stable under normal use conditions.

Incompatibility (materials to avoid): Oxidizing agents, Organic acids, sodium hypochlorite, mineral acids, reactive metals, materials reactive with hydroxyl compounds, nitrous acid and other nitrosating agents and caustic sodas. This product may slowly corrode copper, aluminum, zinc and galvanized surfaces. Reaction with peroxides may result in a violent decomposition of peroxide possibly creating and explosion. CAUTION! N-Nitroamines, many of which are known to be potent carcinogens, may be formed when the product comes in contact with nitrous acid, nitrites or atmospheres with high nitrous oxide concentrations.

Hazardous Decomposition or Combustion Products: Nitric acid, ammonia, nitrogen oxides (NO_x), nitrogen oxide may react with water vapor to form corrosive nitric acid, carbon monoxide (CO), carbon dioxide (CO₂), aldehydes, flammable hydrocarbon fragments (e.g. acetylene) and nitrosamine.

Section XI - Toxicological Information

Acute Oral Toxicity: No data available for this product.

Acute Dermal Toxicity: No data available for this product.

Acute Inhalation Toxicity: No data available for this product.

Contact manufacturer for any applicable toxicological information.

Section XII - Ecological Information

No data available for this product. Contact manufacturer for any applicable ecological information.

Section XIII - Disposal Considerations

Dispose of container and unused contents in accordance with federal, provincial, state and local requirements. For further information, contact your provincial, state or local solid waste agency or the United States Environmental Protection Agency's RCRA hotline (800-424-9346).

Section XIV - Transportation Information

Transportation Data/DOT

Amines, Liquid, Corrosive, n.o.s.

Hazard Class: 8

NA/UN Number: 2735

Packing Group: III

Please refer to U.S. Department of Transportation regulations for more information

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Section XV - Regulatory Information

Federal Regulations:

Sara Title III - Section 311

| | |
|------------------------------------|-----|
| Immediate (Acute) Health Effects: | Yes |
| Chronic (Delayed) Health Effects: | Yes |
| Fire Hazard: | No |
| Sudden Release of Pressure Hazard: | No |
| Reactivity: | No |

Sara Title III - Section 313

None

Canadian Ingredient Disclosure List:

Benzyl Alcohol (100-51-6)
Isophorone Diamine (2855-13-2)
Bisphenol A (80-05-7)

WHMIS Classification:

Class B - Division 3
Class D - Division 1 - Subdivision A
Class E

Section XVI - Other Information

MANUFACTURER DISCLAIMER: This information is provided in good faith and is correct to the best of Superior Stone Products' knowledge as of the date hereof; however, Superior Stone Products makes no representation as to its completeness or accuracy. Customers are encouraged to make their own determination as to the suitability of this product for their purpose prior to use. Superior Stone Products disclaims responsibility to damages of any kind resulting from the use of this information. THERE ARE NO WARRANTIES OR REPRESENTATIONS, EXPRESS OR IMPLIED, INCLUDING THOSE OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THIS INFORMATION OR TO THE PRODUCT IT DESCRIBES.