

# MATERIAL SAFETY DATA SHEET

Company Name: Superior Stone Products, Inc.  
**Product Name:** Superior E-1000 - Part B  
Issue Date: 01/01/04  
Revision Date: 02/08/08  
MSDS Number: SUP-90410



## Section I – Chemical Product and Company Identification

Product Identifier: Superior E-1000 - 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    | <5%                  | 10 ppm          | 1 ppm            |
| Phenol                 | 108-95-2    | <10%                 | 5 ppm           | 5 ppm            |
| Benzyl Alcohol         | 100-51-6    | <20%                 | Not Established | Not Established  |
| N-Aminoethylpiperazine | 140-31-8    | <20%                 | Not Established | Not Established  |
| Nonylphenol            | 25154-52-3  | <50%                 | Not Established | Not Established  |
| Isophorone Diamine     | 2855-13-2   | <20%                 | 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 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. Corneal edema may occur when absorbed into the tissue of the eye through the atmosphere. Corneal edema may give rise the perception of a "blue haze" or "fog" around lights. This effect is transient and has no know residual effect.

**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

## 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. Seek immediate medical attention.

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**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:** Immediately flush eye 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: 92.22°C (198°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.

**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:** May form explosive mixtures in air. 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, gloves 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 exceeded, 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:** > 100°C (>212°F) (estimated)

**Vapor Pressure:** <2.00 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, dehydrating agents, bases, reducing agents, 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 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<sub>x</sub>), nitrogen oxide may react with water vapor to form corrosive nitric acid, carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>), 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:                       | Yes |
| Sudden Release of Pressure Hazard: | No  |
| Reactivity:                        | No  |

#### Sara Title III - Section 313

Phenol (108-95-2)

### Canadian Ingredient Disclosure List:

Phenol (108-95-2)  
N-Aminoethylpiperazine (140-31-8)  
Benzyl Alcohol (100-51-6)  
Isophorone Diamine (2855-13-2)

### 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.