

MATERIAL SAFETY DATA SHEET

Company Name: Superior Stone Products, Inc.
Product Name: Superior E-1010 B
Issue Date: 1/01/04
MSDS Number: SUP-90440 - 1010B



1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: **Superior E-1010 - Part B**
Product Description: Epoxy Adhesive & Filler - Part B
Product Code: 90440 - 1010B
Chemical Family: Amine

MANUFACTURER:
Superior Stone Products, Inc.
8580 Byron Commerce Drive
Byron Center, MI 49315
Customer Service: 800-493-5111

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

2. COMPOSITION/INFORMATION ON INGREDIENTS

| | <u>% by Weight</u> | <u>CAS Registry Number</u> |
|------------------------|--------------------|----------------------------|
| Diethylenetriamine | <5 | 000111-40-0 |
| Phenol | <10 | 000108-95-2 |
| Benzyl Alcohol | <20 | 000100-51-6 |
| N-Aminoethylpiperazine | <20 | 000140-31-8 |
| Nonylphenol | <50 | 025154-52-3 |
| Isophoronediamine | <20 | 002855-13-2 |
| Amorphous Fumed Silica | <15 | 112945-52-5 |

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)

| | EXPOSURE LIMITS | | |
|------------------------|-----------------|----------------------|-----------------|
| | <u>OSHA PEL</u> | <u>ACHIH TLV</u> | <u>Supplier</u> |
| Diethylenetriamine | 1 ppm | 1 ppm | |
| Amorphous Fumed Silica | | 10 mg/m ³ | |

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

IMMEDIATE CONCERNS: Severe eye irritant. Severe skin irritant. Severe respiratory tract irritant. May cause skin sensitization.

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SIGNS AND SYMPTOMS OF OVEREXPOSURE

SKIN: Contact with skin causes severe irritation and pain.

EYES: Contact with eyes causes severe irritation and pain. Product vapor in low concentrations can cause lacrymation, conjunctivitis and corneal edema when absorbed into the tissue of the eye from the atmosphere. Corneal edema may give rise to a perception of "blue haze" or "fog" around lights. The effect is transient and has no known residual effect.

INGESTION: Ingestion may cause bleeding of the gastrointestinal tract and the vomiting of blood.

INHALATION: Inhalation of vapors may cause irritation in the respiratory tract. Inhalation of aerosol, mist or fog may severely damage contacted tissue and produce scarring.

SUBCHRONIC/CHRONIC TOXICITY

CARCINOGENICITY: This product contains no carcinogens in concentrations of 0.1 percent or greater.

MEDICAL CONDITIONS AGGRAVATED

Asthma, chronic respiratory disease (e.g. bronchitis, emphysema), eye disease, skin disorders and allergies.

ROUTES OF ENTRY: Ingestion, inhalation and skin absorption.

TARGET ORGANS:

Eyes, respiratory system, skin.

HEALTH HAZARDS: Repeated and/or prolonged exposure may cause: allergic reaction/sensitization; adverse respiratory effects (such as cough, tightness of chest or shortness of breath), adverse eye effects (such as conjunctivitis or corneal damage), adverse skin effects (such as rash, irritation or corrosion). Dryness of nasal passages may be experienced when material is inhaled over a long period of time.

4. FIRST AID MEASURES

EYES: Flush with copious amounts of water for 15 minutes. Seek immediate medical aid.

SKIN: Remove contaminated clothing. Wash with soap and water. Consult a physician if any signs or symptoms described in this document occur. Wash contaminated clothing. Contaminated leather articles, including shoes, cannot be decontaminated and should be destroyed to prevent reuse.

INGESTION: Drink 3-4 glasses of milk or water. DO NOT INDUCE VOMITING (aspiration hazard). Seek immediate medical aid.

INHALATION: Remove victim from exposure. If victim is unconscious, administer artificial respiration and/or oxygen as needed. Seek medical aid.

5. FIRE FIGHTING MEASURES

Flashpoint and Method: 230F

FLAMMABLE CLASS: 3B

EXTINGUISHING MEDIA: Water spray, foam, dry chemical, carbon dioxide or any Class B extinguishing agent.

OTHER CONSIDERATIONS: May generate toxic or irritating combustion products. Contact of liquid with skin must be prevented. Sudden reaction and fire may result if product is mixed with an oxidizing agent. May generate carbon monoxide gas. May generate toxic nitrogen oxide gases. May generate ammonia gas. Personnel in vicinity and downwind should be evacuated.

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FIRE FIGHTING PROCEDURES: Firefighters and others exposed to vapors or products of combustion should wear self-contained breathing apparatus and full protective clothing. Equipment should be thoroughly decontaminated after use.

6. ACCIDENTAL RELEASE MEASURES

GENERAL PROCEDURES: CHEMTREC Emergency phone number (24 hour): 800-424-9300

RELEASE NOTES: Remove all sources of ignition. Ventilate area. Absorb spill with an absorbent material such as sawdust, vermiculite or sand and place in a closed container. If large spill, dike the area to prevent this material from entering water systems or sewers. Dispose of hazardous waste only in a certified facility for hazardous waste handling in accordance with federal, state, and local regulations.

SPECIAL PROTECTIVE EQUIPMENT: Wear protective clothing, boots, gloves, and eye protection.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Read and observe all precautions on product label. Refer to product label or manufacturers technical bulletins for the proper use and handling of this material. 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. Emptied container still contains hazardous or explosive vapor or liquid.

HANDLING: Avoid contact with skin or eyes. Avoid breathing of vapors. Handle in well ventilated work space. When handling, do not eat, drink, or smoke.

STORAGE: Keep away from: acids, alkalis, oxidizers. Keep in cool, dry, ventilated storage and in closed containers. Storage Temperature: 100F maximum

SHELF LIFE: One (1) year when stored at room temperatures.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Use adequate ventilation to keep the airborne concentrations of this material below the recommended exposure standard.

PERSONAL PROTECTION

EYES AND FACE: Wear safety glasses, face shield or chemical goggles.

SKIN: Wear appropriate impervious gloves to prevent skin contact.

RESPIRATORY: If a TLV or PEL listed in this data sheet is exceeded, then suitable respiratory protection must be worn to prevent overexposure. A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain limited circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited.

PROTECTIVE CLOTHING: Wear protective clothing to prevent skin contact.

WORK HYGIENIC PRACTICES: Wash at the end of each workshift and before eating, smoking or using the toilet. Promptly remove clothing that becomes contaminated. Use appropriate hand and skin lotions to protect the skin. Discard contaminated leather articles.

OTHER USE PRECAUTIONS: Eye wash station and safety shower should be available for emergency situations.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid
Odor: Amine
pH: >7
Boiling Point: >300F
Specific Gravity: ~.994 (water=1)

10. STABILITY AND REACTIVITY

STABLE: Yes
HAZARDOUS POLYMERIZATION: No
HAZARDOUS DECOMPOSITION: Burning can produce carbon monoxide, carbon dioxide, nitrogen oxides and nitric acid. Heating can release ammonia and toxic fumes, aldehydes, and organic acid vapors. The oxides of nitrogen gases (except nitrous oxide) emitted on decomposition are highly toxic. Nitrogen oxide can react with water vapors to form corrosive nitric acid (TLV=2 ppm).
INCOMPATIBLE MATERIALS: Mineral acids, alkalis, organic acids, reducing agents, oxidizing agents, reactive metals, sodium or calcium hypochlorite. Product slowly corrodes copper, aluminum, zinc and galvanized surfaces. Reaction with peroxides may result in violent decomposition of peroxide possibly creating an explosion. Materials reactive with hydroxyl compounds. A reaction accompanied by large heat release occurs when the product is mixed with acids. Heat generated may be sufficient to cause vigorous boiling creating a hazard due to splashing or splattering of hot material.

11. TOXICOLOGICAL INFORMATION

ACUTE

Skin: Acute Dermal Toxicity (LD50, Rabbit): >2800.0 mg/kg (estimate)
Ingestion: Acute Oral Toxicity (LD50, Rat): 1000.0 mg/kg (estimate)

12. ECOLOGICAL INFORMATION

CHEMICAL FATE INFORMATION: 108-95-2 PHENOL Biodegradability=99.5% at 7 days.
GENERAL COMMENTS: Waste from this product may present long term environmental hazards, thus landfill disposal must be considered less acceptable than incineration.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Comply with all Federal, State and Local Regulations. Incineration is acceptable and the preferred method of disposal. However, nitrogen oxide emission controls may be required to meet specifications. Chemical and/or biological degradation is feasible. A suitable industrial or municipal waste treatment system can be used depending on the quality and quantity of waste to be treated, the treatment plant capability, and discharge water quality standards. Disposal in an approved landfill is acceptable if local regulations allow.

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14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)
Technical Name: Amines, liquid, corrosive, n.o.s., (Isophoronediamine)
Harzard Class: 8
NA/UN Number: 2735
Packing Group: III

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)
311/312 Hazard Categories: Immediate Health Hazard. Delayed Health Hazard.
313 Reportable Ingredients: Toxic chemicals above "de minimis" level are: 108-95-2 PHENOL at no more than 10%

TSCA(TOXIC SUBSTANCE CONTROL ACT)
TSCA Regulatory: All components are included in the EPA Toxic Substances Control Act (TSCA) Chemical Substance Inventory

OSHA HAZARD COMM. RULE: Corrosive. Sensitizer. Irritant. Toxic by skin absorption.

CANADA

WHMIS (WORKER HAZARDOUS MATERIALS INFORMATION SYSTEM): Canadian WHMIS Classification: Class D Division 2B, Class E Corrosive.

STATE REGULATIONS

PROPOSITION 65 STATEMENT: There are NO substances known to the State of California (Proposition 65) to cause cancer and/or reproductive toxicity.

16. OTHER INFORMATION

HMIS CODES

Fire: 1 Health: 3 Reactivity: 0

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