

SAFETY DATA SHEET

Company Name: Superior Stone Products, Inc.

Product Name: Superior E-1500 Epoxy Adhesive - Part B

Issue Date: 4/19/10

Revision Date: 8/15/18

SDS Number: 200-25410



Section I –Product and Company Identification

Product Identifier: Superior E-1500 Epoxy Adhesive- Part B

Product Description/Use: Epoxy Adhesive and Filler

Product Code: 25410

Chemical Family: Amidoamine

Company:

Superior Stone Products, Inc.
8580 Byron Commerce Drive
Byron Center, MI 49546
Phone: (616) 583-0171

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

Section II – Hazards Identification

GHS Hazard Classification(s):

Acute Toxicity (Inhalation): Category 2

Serious Eye Damage/Irritation: Category 1

Reproductive Toxicity: Category 2

Specific target organ toxicity - single exposure: Category 3

Skin Corrosion/Irritation: Category 1B

Skin Sensitization: Category 1



Symbols:

Signal Word(s): **Danger**

Hazard Statements:

H314: Causes severe skin burns and eye damage.

H317: May cause allergic skin reaction.

H330: Fatal if inhaled.

H335: May cause respiratory irritation

H361: Suspected of damaging fertility or the unborn child.

Precautionary Statements:

Prevention

P201: Obtain special instruction before use.

P202: Do not handle until all safety precautions have been read and understood.

P260: Do not breathe dust/fume/gas/mist/vapor/spray.

P264: Wash skin thoroughly after handling.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P281: Use personal protective as required.

P84: Wear respiratory protection.

Response

P301+P330+P331 :IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303+P361+P353 :IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+P351+P338 :IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 :Immediately call a POISON CENTRE or doctor/physician.

P333+P313 :If skin irritation or rash occurs: Get medical advice/attention.

P363 :Wash contaminated clothing before reuse.

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Storage & Disposal

P403: Store in a well ventilated place.

P404: Store in a closed container.

P405: Store Locked up

P501: Dispose of contents/container in accordance with all local, regional, national and international regulation.

Hazards not otherwise classified: This product contains a component that is toxic by inhalation when aerosolized or sprayed. Please refer to Section 11 of the SDS for toxicity information. Review the toxicity information against your intended use. If product is not being aerosolized or sprayed, the inhalation toxicity may not be applicable. May cause sensitization by skin contact. Corrosive. Very toxic by inhalation. Respiratory irritant.

Section III – Composition/Information on Ingredients

Substance/Mixture: Mixture

<u>Ingredient</u>	<u>Synonym(s)</u>	<u>% (By Weight)</u>	<u>CAS#</u>	<u>EINECS No.</u>
Nepheline Syenite	N/A	50-75%	37244-96-5	N/A
TOFA, Reaction Products with TEPA	N/A	25-40%	68953-36-6	N/A
Tetraethaleneptamine	N/A	5-10%	112-57-2	N/A
Tetraethylenetriamine	N/A	<5%	112-24-3	N/A
Hydrophobic Amorphous Fumed Silica	Hydrophobized Dispersed Silica, Synthetic Silica, X-ray Amorphous Silicon Dioxide	<5%	67762-90-7	N/A

Section IV – First Aid Measures

If Swallowed: Do not induce vomiting without medical advice. If a person vomits when lying on his back, place him in the recovery position. Never give anything by mouth to an unconscious person. Prevent aspiration of vomit. Turn victim's head to the side.

Skin Contact: Immediately remove contaminated clothing, and any extraneous chemical, if possible to do so without delay. Initiate and maintain continuous irrigation until the patient receives medical care. If medical care is not promptly available, continue to irrigate for one hour. Cover wound with sterile dressing. Take off contaminated clothing and shoes immediately. Immediately remove contaminated clothing, and any extraneous chemical, if possible to do so without delay. Flush immediately with copious amounts of water. Initiate and maintain continuous irrigation until the patient receives medical care. If medical care is not promptly available, continue to irrigate for one hour. Cover wound with sterile dressing. Take off contaminated clothing and shoes immediately.

If Inhaled: 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. Move to fresh air.

Eyes: Hold eyelids apart, initiate and maintain gentle and continuous irrigation until the patient receives medical care. If medical care is not promptly available, continue to irrigate for one hour.

Section V - Fire Fighting Measures

Suitable Extinguishing Media: Alcohol resistant foam, dry chemical, carbon dioxide, dry sand, limestone powder.

Unsuitable Extinguishing Media: None known.

Special 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. Downwind personnel must be evacuated.

Hazardous Products of Combustion: May generate ammonia gas. May generate toxic nitrogen oxide gases. Use of water may result in the formation of very toxic aqueous solution. do not allow run-off from fire fighting to enter drain or water courses. Incomplete combustion may form carbon dioxide. Burning produces noxious and toxic fumes.

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Section VI - Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

For Non-Emergency Personnel: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Do not touch or walk through spilled material. Provide adequate ventilation.

For Emergency Responders: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. See also the information for non-emergency personnel.

Methods and Materials for Containment and Cleaning Up

Small Spill: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large Spill: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section VII - Handling and Storage

Precautions for Safe Handling

Protective Measures: Do not use sodium nitrite or other nitrosating agents in formulations containing this product. Suspected cancer-causing nitrosamines could be formed. Put on appropriate personal protection equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not breath vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined space unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible materials, kept tightly closed when not in use. Store and use away from heat, sparks open flame or any other ignition source. Empty containers retain product residue and can be hazardous. Do no reuse container.

Advice on General Occupational Health: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for Safe Storage, Including and Incompatibles: Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Segregate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do no store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Refer to the product label and/or technical data sheet for further information. Do not store in temperatures greater than 100°F.
Shelf Life: One (1) year when stored at room temperatures.

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Section VIII - Exposure Controls/Personal Protection

Likely Routes of Exposure: Inhalation, Dermal, Ingestion.

Control Parameters

Occupational exposure Limits:

<u>Ingredient Name</u>	<u>Exposure Limits</u>
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Tetraethaleneptamine	ACGIH TLV (United States) TWA (WEEL): 1 ppm (5 mg/m ³)
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Diethylenetriamine	ACGIH TLV (United States) TWA: 1ppm
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OSHA (United States)

	TWA: 1 ppm
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Engineering Controls: Use only with adequate ventilation to keep the airborne concentrations of this material below the recommended exposure standard. Engineering controls also need to keep gas vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Environmental Exposure Controls: Emissions from ventilation of work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels. .

Individual Protection Measures

Hygiene Measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/Face Protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gasses or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Hand Protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body Protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

Other Skin Protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory Protection: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

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Section IX – Physical and Chemical Properties

Physical State: Paste

Color: Tan (darkens with age)

Odor: Fishy

Odor Threshold: Not Available

pH: Alkaline

Melting Point: Not Available

Boiling Point: 500°F/>260°C

Flash Point: 280°F/137.78°C

Burning Time: Not Available

Burning Rate: Not Available

Evaporation Rate: Not Available

Flammability (solid, gas): Not Applicable

Lower and Upper Explosive (Flammable) Limits: Not Applicable

Vapor Pressure: <.10 mmHg at @ 70°F/21°C

Vapor Density: Not Available (Air = 1)

Relative Density: Not Available (Water = 1)

Solubility: Soluble

Partition Coefficient: n-Octanol/water : Not Available.

Auto-Ignition temperature: Not Available

Decomposition Temperature: Not Available

SADT: Not Available

Viscosity: Not Available

Section X - Stability and Reactivity

Reactivity: No specific test data related to reactivity available for this product or its ingredients.

Chemical Stability: Material is stable at normal temperature and pressure.

Conditions to avoid: No data available.

Incompatibility (materials to avoid): Strong oxidizing agents, sodium hypochlorite, organic acids, mineral acids, materials reactive with hydroxyl compounds. nitrous acid and other nitrosating agents. CAUTION: N-Nitrosamines 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. Reaction with peroxides may result in violent decomposition of peroxide possible creating an explosion.

Hazardous Decomposition: Nitric acid, Ammonia, Nitrogen oxides (NOx). Nitrogen oxide can react with water vapors to form corrosive nitric acid, Carbon monoxide, Carbon dioxide (CO2), Nitrosamine.

Section XI - Toxicological Information

Acute Toxicity:

<u>Product/Ingredient Name</u>	<u>Result</u>	<u>Species</u>	<u>Dose</u>	<u>Exposure</u>
Product Components	LD50 - Oral (estimated)	Rat	>2000 mg/kg	-
	LD50 - Dermal (estimated)	Rabbit	>2000 mg/kg	-

Irritation/Corrosion: Severe skin irritation.

Severe eye irritation.

Sensitization: May cause sensitization by skin contact. Sensitization has occurred in laboratory animals after repeated exposures

Mutagenicity: Not available

Carcinogenicity: Not available

Reproductive Toxicity: Not available

Teratogenicity: Not available

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Specific Target Organ Toxicity (Single Exposure): Not available

Specific Target Organ Toxicity (Repeated Exposure):

Aspiration Hazard: Not available

Likely Routes of Exposure: Inhalation, Dermal, Ingestion.

Potential Acute Health Effects:

Eye Contact: Causes eye burns. May cause blindness.

Inhalation: This product contains a component that is toxic by inhalation when aerosolized or sprayed. Please refer to Section 11 of the SDS for toxicity information. Review the toxicity information against your intended use. If product is not being aerosolized or sprayed, the inhalation toxicity may not be applicable. Inhalation of vapors and/or aerosols in high concentration may cause irritation of respiratory system. Inhalation of aerosol may cause irritation to the upper respiratory tract. May cause nose, throat, and lung irritation. Can cause severe eye, skin and respiratory tract burns. Highly toxic by inhalation.

Skin Contact: Causes skin burns.

Ingestion: If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach.

Symptoms Related to the Physical, Chemical and Toxicological Characteristics:

Repeated and/or prolonged exposure to low concentrations of vapors and/or aerosols may cause: sore throat, asthma, eye disease, skin disorders and allergies.

Delayed and Immediate Effects and also Chronic Effects from Short and Long Term Exposures:

Short Term Exposures:

Potential Immediate Effects: Not available.

Potential Delayed Effects: Not available.

Long Term Exposures:

Potential Immediate Effects: Not available.

Potential Delayed Effects: Not available.

Potential Chronic Health Effects: Not Available.

General: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Carcinogenicity: No known significant effects or critical hazards.

Mutagenicity: No known significant effects or critical hazards.

Teratogenicity: No known significant effects or critical hazards.

Developmental Effects: No known significant effects or critical hazards.

Fertility effects: No known significant effects or critical hazards.

Numerical Measures of Toxicity:

Acute Toxicity Estimates: Not available.

Section XII - Ecological Information

Toxicity: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Persistence and Degradability: Not Available

Bioaccumulative Potential: Not Available

Mobility in Soil:

Soil/water Partition Coefficient (Koc): Not available

Other Adverse Effects: Not available

Section XIII - Disposal Considerations

The information in this section contains generic advice and guidance. The list of identified uses in Section 1 should be consulted for any available use-specific information.

Disposal Methods: The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. Disposal of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of

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environmental protection and waste disposal legislation and any regional local authority requirements. Avoid disposal. Attempt to use product completely in accordance with intended use. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is no feasible.

Special Precautions: This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, water ways, drains and sewers.

Section XIV - Transportation Information

DOT (DEPARTMENT OF TRANSPORTATION)

Technical Name: Amines, liquid, corrosive, N.O.S
(Aliphatic amine, Polyamidoamine)

Hazard Class: 8

NA/UN Number: 2735

Packing Group: III

Marine Pollutant: Yes

Please refer to DOT regulations for more info

Canada (TDG)

Technical Name: Amines, liquid, corrosive, N.O.S
(Aliphatic amine, Polyamidoamine)

Hazard Class: 8

NA/UN Number: 2735

Packing Group: III

Marine Pollutant: Yes

Please refer to TDG Regulations for more info

International Air Transport Association (IATA)

Technical Name: Amines, liquid, corrosive, N.O.S
(Aliphatic amine, Diethylenetriamine, Polyamidoamine)

Hazard Class: 8

NA/UN Number: 2735

Packing Group: II

ERG Code: 8L

Marine Pollutant: Yes

Please refer to IATA regulations for more info.

International Maritime Organization (IMO)

Technical Name: Amines, liquid, corrosive, N.O.S
(Aliphatic amine, Diethylenetriamine, Polyamidoamine)

Hazard Class: 8

NA/UN Number: 2735

Packing Group: II

EmS: F-A, S-B

Marine Pollutant: Yes

Please refer to IMO regulations for more info.

Special Precautions for User: Transport within users premises: Always transport in closed containers that are upright and secure. Ensure that persons transporting the products know what to do in the event of an accident or spillage.

Section XV - Regulatory Information

United States Federal Regulations:

Sara Title III - Section 311/312

<u>Criteria</u>	<u>Yes/No</u>
Immediate (Acute) Health Effects:	Yes
Chronic (Delayed) Health Effects:	No
Fire Hazard:	No
Sudden Release of Pressure Hazard:	No
Reactivity:	No

State Regulations:

California Prop. 65: This product does not contain any chemicals known to the State of California to cause cancer, birth defects or any other harm.

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Section XVI - Other Information

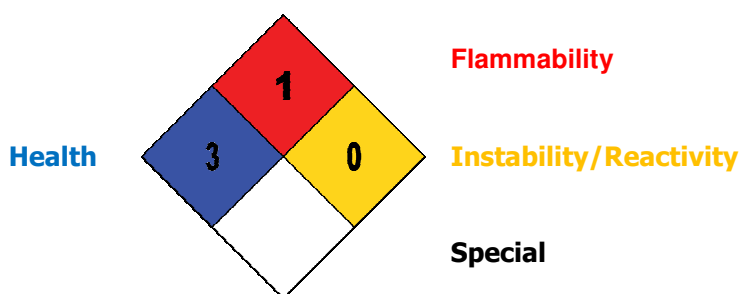
Hazardous Material Information System (United States):

Health	3
Flammability	1
Physical Hazards	0

Caution: HMIS® rating are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® rating are not required on SDSs under 29 CFR 19101200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J.J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (United States):



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