

SAFETY DATA SHEET

Company Name: Superior Stone Products, Inc.

Product Name: E-1010 - Part B - 1:1 Knife Grade

Issue Date: 12/8/05

Revision Date: 8/15/18

SDS Number: 200-25040



Section I – Product and Company Identification

Product Identifier: Superior Epoxies E-1010 - Part B - 1:1 Knife Grade

Product Description/Use: Epoxy Adhesive and Filler

Product Code: 25040

Chemical Family: Epoxy Resin

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: Category 4, Dermal

Acute Toxicity: Category 4, Oral

Serious Eye Damage/Irritation: Category 1

Reproductive Toxicity: Category 2

Chronic Aquatic Toxicity: Category 1

Specific Target Organ Toxicity - Single Exposure: Category 3

Acute Toxicity: Category 4, Inhalation

Skin Corrosion/Irritation: Category 1B

Skin Sensitization: Category 1

Acute Aquatic Toxicity: Category 1



Symbols:

Signal Word(s): Warning

Hazard Statements:

H302: Harmful if swallowed.

H314: Causes severe skin burns and eye damage.

H317: May cause allergic skin reaction.

H318: Causes serious eye damage.

H330: Fatal if Inhaled

H335: May cause respiratory irritation.

H361 Suspected of damaging fertility or the unborn child.

H410: Very toxic to aquatic life with long lasting effects.

Precautionary Statements:

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.

P270: Do not eat, drink or smoke when using this product.

P271: Use only outdoors or in a well-ventilated area.

P272: Contaminated work clothing should not be allowed out of the workplace.

P273: Avoid release to the environment.

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

P281: Use personal protective as required.

P284: Wear respiratory protection.

Hazards not otherwise classified: None known.

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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>
Nonylphenol	Branched p-nonylphenol, C9 branched alkyl phenol	<35%	84852-15-3	284-325-5
Aminoethylpiperazine	1-(2-Aminoethyl)piperazine, 1-Piperazineethanamine, Piperazine, 1-(2-aminoethyl)-	>40%	140-31-8	205-411-0
Hydrophobic Amorphous Fumed Silica	Hydrophobized Dispersed Silica, Synthetic Silica, X-ray Amorphous Silicon Dioxide	5-10%	67762-90-7	N/A

Section IV – First Aid Measures

If Swallowed: Do NOT induce vomiting. Rinse mouth with water. If a person vomits when lying on their back, place them in the recovery position. Never give anything by mouth to an unconscious person. Prevent aspiration of vomit. Turn victim's head to the side. Consult a physician.

Skin Contact: Remove immediately all contaminated clothing and any extra material. Rinse skin with water. Maintain continuous irrigation until medical care can be received.

If Inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER OR doctor/physician.

Eyes: Flush with copious amounts of water, occasionally lifting the upper and lower eyelids until medical attention is received. Check for and remove any contact lenses. Seek immediate medical aid.

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.

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

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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: 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.

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>
N/A	N/A

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.

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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.

Section IX – Physical and Chemical Properties

Physical State: Paste

Color: Light yellow/amber (darkens with age)

Odor: Amine Like

Odor Threshold: Not Available

pH: Alkaline

Melting Point: Not Available

Boiling Point: >392°F/>200°C

Flash Point: 267°F/130°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: <1 mmHg at @ 70°F/25°C

Vapor Density: Not Available (Air = 1)

Relative Density: 1.07 (Water = 1)

Solubility: Slightly 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.

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Hazardous Decomposition: Nitric acid, ammonia, nitrogen oxides (NOx) Carbon monoxide, carbon dioxide, aldehydes, flammable hydrocarbon fragments. Nitrogen oxide can react with water vapors to form corrosive nitric acid.

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	1,412 mg/kg	-
	LD50 - Dermal (estimated)	Rabbit	>880 mg/kg	-

Irritation/Corrosion:

<u>Product/Ingredient Name</u>	<u>Result</u>	<u>Species</u>	<u>Score</u>	<u>Dose</u>	<u>Observation</u>
Product Components	Skin - OECD 404 - Causes burns	Rabbit	-	-	-
	Eyes - OECD 405 - Corrosive	Rabbit	-	-	-

Sensitization: Dermal sensitization to this product has been seen in some humans. The results of a test on guinea pigs showed components of this substance to be a weak sensitizer.

Mutagenicity: Not available

Carcinogenicity: Not available

Reproductive Toxicity:

<u>Product/Ingredient Name</u>	<u>Species</u>	<u>Result</u>
Nonylphenol	Rat - Oral	Effect on Newborn: Growth Statistics (e.g. reduced weight gain). Effects on Newborn: Physical. Suspected human reproductive toxicant.

Teratogenicity: Not available

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: Can cause severe eye, skin and respiratory tract burns. Can be highly toxic by inhalation.

Skin Contact: Toxic in contact with skin. Causes skin burns.

Ingestion: If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus 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, kidney disorders, liver disorders, 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.

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Fertility effects: No known significant effects or critical hazards.

Numerical Measures of Toxicity:

Acute Toxicity Estimates: Not available.

Additional Information- Nonylphenol: Repeated dose toxicity - Rat - male and female - No observed adverse effect level - 10 mg/kg - Lowest observed adverse effect level - 50 mg/kg.

RTECS: Not Available.

Cough, shortness of breath. headache, nausea, vomiting. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Section XII - Ecological Information

Toxicity:

<u>Product/Ingredient Name</u>	<u>Result</u>	<u>Species</u>	<u>Exposure</u>
Nonylphenol	LC50 - Flow though test - 0.209 mg/l	Fish - Lepomis macrochirus	96 hour
	EC50 - Semi-static test - 0.0844 mg/l	Daphnia magna (Water Flea)	48 hour
	EC50 - Static test - 0.33 mg/l	Selenastrum capricornutum (green algae)	72 hour

Persistence and Degradability: Not Available

Bioaccumulative Potential:

<u>Product/Ingredient Name</u>	<u>LogPow</u>	<u>BCF</u>	<u>Potential</u>
Nonylphenol	-	740	Primephales promelas (fathead minnow) - 28 days

Mobility in Soil:

Soil/water Partition Coefficient (Koc): Not available

Other Adverse Effects: No known significant effects or critical hazards.

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 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.

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Section XIV - Transportation Information

DOT (DEPARTMENT OF TRANSPORTATION)

Technical Name: Amines, liquid, corrosive, N.O.S
(Nonyl Phenol, Heterocyclic amine)
Hazard Class: 8
NA/UN Number: 2735
Packing Group: II
Marine Pollutant: Yes

Please refer to DOT regulations for more info

Canada (TDG)

Technical Name: Amines, liquid, corrosive, N.O.S
(Nonyl Phenol, Heterocyclic amine).
Hazard Class: 8
NA/UN Number: 2735
Packing Group: II
Marine Pollutant: Yes

Please refer to TDG Regulations for more info

International Air Transport Association (IATA)

Technical Name: Amines, liquid, corrosive, N.O.S
(Nonyl Phenol, Heterocyclic amine)
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
(Nonyl Phenol, Heterocyclic amine).
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 is not known to contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

Pennsylvania Right to Know: The following components are listed: 4-nonylphenol, branched (84852-15-3)

New Jersey Right to Know: The following components are listed: 4-nonylphenol, branched (84852-15-3)

Canada:

Canadian WHMIS Classification:

D1, D2A, D2B, E

Canadian Disclosure List:

N-Aminoethylpiperazine (140-31-8)

Nonlyphenol (84852-15-3)

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Section XVI - Other Information

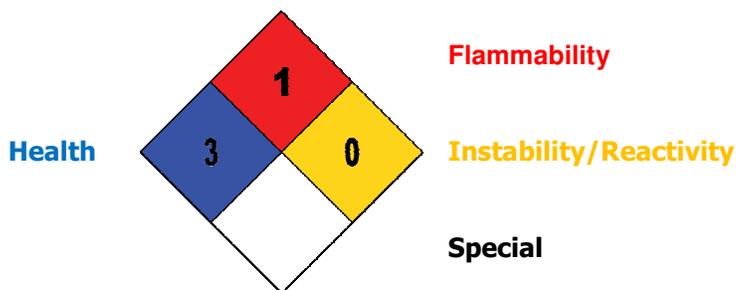
Hazardous Material Information System (United States):

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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