



Safety Data Sheet

Section 1: Identification of the Product/Company

Product Identifier:

Product Name: EPOXY RESIN (PART A)

Product Code:

Relevant identified uses of the substance or mixture**Recommended use:**

Epoxy resin used as a sealant

Uses advised against:

Restrictions are not known

Details of the supplier of the safety data sheet**Manufacturer:**

Super Stone Inc.
1251 Burlington Street
Opa-Locka, FL 33054
United States
www.superstone.com

Telephone (General):

(305) 681-3561

Emergency telephone number**Manufacturer:**

(800) 424-9300 (Chemtrec) USA
+ 1 (703) 527-3887 (Chemtrec) International

Section 2: Hazards Identification

Classification of the substance or mixture**GHS-US classification**

| | |
|---|-------------------|
| Skin corrosion / irritation: | Category 1, H315 |
| Skin sensitization: | Category 1, H317 |
| Serious eye damage / eye irritation: | Category 2A, H319 |
| Hazardous to aquatic environment, chronic toxicity: | Category 2, H411 |

Label elements



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GHS-US labeling

The substance is classified and labeled according to the Globally Harmonized System (GHS).

Hazard Pictograms (GHS-US)



Signal words (GHS-US):

Warning

Hazards statements (GHS-US):

H315: Causes skin irritation
H317: May cause an allergic skin reaction
H319: Causes serious eye damage
H411: Toxic to aquatic life with long lasting effects

Precautionary statements (GHS-US)

Prevention:

P261: Avoid breathing dust / fume/ gas/ mist/ vapors/ spray.
P264: Wash skin thoroughly after handling.
P272: Contaminated work clothing should not be allowed out of the workplace.
P273: Avoid release to environment.
P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response:

P301+P330+P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P302+P352: IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338: IF IN EYES: Rinse cautiously with water



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for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

P337+P313: If eye irritation persists: Get medical advice/attention.

P362: Take off contaminated clothing and wash before reuse.

P391: Collect spillage

Storage:

P405: Store locked up.

Disposal:

P501: Dispose of contents /containers to appropriate treatment and disposal facility, in accordance with the applicable laws and regulations, and product characteristics at time of disposal.

Precautionary statements are listed according to the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS)-Annex III

Other hazards

No data available

Section 3: Composition/information on ingredients

Substances

| Name | Product Identifier | % by weight | GHS-US classification |
|--------------------------------------|--------------------|-------------|---|
| Bisphenol A Polyglycidyl Ether Resin | CAS # 25068-38-6 | 90-100 | Skin irritation 2, H315 Eye irritant 2A, H319 Sensitization skin 1, H317 Aquatic acute 2, Aquatic chronic 2, H411 |



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Amounts specified are typical and do not represent a specification. Any other ingredients are either proprietary, non-hazardous or present in amounts below the reportable limits. Exact percentages are being withheld because of trade secret purposes.

Section 4: First aid measures

Description of necessary first aid measures

First-aid measures general:

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

First-aid measures after inhalation:

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

First-aid measures after skin contact:

Wash off with soap and plenty of water. Consult a physician.

First-aid measures after eye contact:

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

First-aid measures after ingestion:

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Most important and effects, both acute and delayed

Symptoms:

The most important known symptoms and effects are described in the labelling section 2.

Indication of any immediate medical attention and special treatment needed

No data available

Section 5: Firefighting measures

Extinguishing media

Suitable extinguishing media:

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

Unsuitable extinguishing media:

Not available

Special hazards arising from the substance or mixture

Nature of decomposition products not known.

Advice for firefighters



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Wear self-contained breathing apparatus for firefighting if necessary.

Additional information

Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. For personal protection see section 8.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods and material for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protective equipment

See Section 13 for disposal information

Section 7: Handling and storage

Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. For precautions see section 2.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Specific end use(s)

Coating and sealant

Section 8: Exposure controls/personal protection

Control parameters

Occupational exposure limits:

Contains no substances with occupational exposure limit values.

Exposure controls



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Appropriate engineering controls:

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment:

Wear fire-proof clothing, protective goggles and gloves. Wear respiratory protection in a poor ventilated environment.

Hand protection:

Use suitable protective gloves if risk of skin contact.

Eye protection:

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection:

Wear suitable protective clothing. Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of exposure. Contact health and safety professional or manufacturer for specific information.

Respiratory protection:

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hygiene Measures:

Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product. Do not get in eyes. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Wash contaminated clothing before reuse. Do not get this material in contact with skin. Contaminated



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work clothing should not be allowed out of the workplace.
Avoid contact with skin.

General information:

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Section 9: Physical and chemical properties

Information on basic physical and chemical properties

| | |
|---|-----------------------------|
| Physical state: | Liquid |
| Appearance: | Moderately viscous material |
| Color: | Transparent to straw color |
| Odor: | Mild aromatic |
| Odor threshold: | No data available |
| pH: | No data available |
| Relative evaporation rate (butyl acetate=1): | No data available |
| Boiling Range: (Initial Boiling Point) | No data available |
| Melting point: | No data available |
| Freezing point: | Not Determined |
| Auto-ignition temperature: | No data available |
| Decomposition temperature: | No data available |
| Flammability (solid, gas): | Not Applicable |
| Vapor pressure: | 0.03 mm Hg @ 77 ° C |
| Flash Point: | 252 ° C (486 ° F) |
| Flash Point Method: | Open Cup |
| Relative vapor density @ 20 ° C: | No data available |
| Relative density: | 1.15-1.17 |
| Density: | 9.58-9.75 lbs / gal |
| Solubility: | Miscible with water |
| Log Pow: | 2.8 |
| Log Kow: | Not available |
| Viscosity, kinematic: | Not available |
| Viscosity, dynamic: | Not available |
| Explosive properties: | None known |
| Oxidizing properties: | None known |
| Explosive limits: | No data available |



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Other information:

N/A denotes Not Available

Section 10: Stability and reactivity

Reactivity

No data available

Chemical Stability

Product is stable under normal conditions

Conditions to Avoid

Avoid heat or contamination

Incompatible Materials

Strong oxidizing agents, acids, Amines & Bases

Hazardous Decomposition Products

No data available

Section 11: Toxicological information

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

LD50 Oral - Rat - 13,600 mg/kg

Remarks: Behavioral: Somnolence (general depressed activity). Lungs, Thorax, or Respiration: Dyspnea.

Nutritional and Gross Metabolic: Weight loss or decreased weight gain.

Dermal

No data available

Inhalation

No data available.

Repeated dose toxicity

Product: No data available.

Skin Corrosion/Irritation

Product: No data available.

Serious Eye Damage/Eye Irritation

Product: No data available.

Respiratory or Skin Sensitization

Product: No data available.

Carcinogenicity

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:



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No carcinogenic components identified

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components identified

Germ Cell Mutagenicity

In vitro

Product: No data available.

In vivo

Product: No data available.

Reproductive toxicity

Product: No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Aspiration Hazard

Product: No data available.

Other effects: No data available.

Section 12: Ecological information

Toxicity:

Product: No data available.

Persistence and Degradability

Biodegradation

Product: Not readily biodegradable

Bio-accumulative Potential

Product: No data available.

Mobility in Soil: No data available.

Other Adverse Effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Section 13: Disposal considerations



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Disposal instructions: Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated Packaging: Dispose of as unused product.

Section 14: Transport information

In accordance with ICAO/IATA/DOT/TGD

Land transport

Department of transportation (DOT):

NA NUMBER: 1993
CLASS: NONE
PACKING GROUP: III
PROPER SHIPPING NAME: Combustible liquid, n.o.s. (Reaction product: bisphenol-A-epichlorhydrin and epoxy resin
Poison Inhalation Hazard: No

Transport by sea

UN NUMBER 3082
INTERNATIONAL MARITIME ORGANIZATION SHIPPING INFORMATION (IMO)
CLASS: NONE
PACKING GROUP: III
PROPER SHIPPING NAME: Combustible liquid, n.o.s. (Reaction product: bisphenol-A-epichlorhydrin and epoxy resin
Poison Inhalation Hazard: No

Air transport

INTERNATIONAL AIR TRANSPORT ASSOCIATION SHIPPING INFORMATION (IATA):

UN NUMBER: 3082
CLASS: NONE
PACKING GROUP: III
PROPER SHIPPING NAME: Combustible liquid, n.o.s. (Reaction product: bisphenol-A-epichlorhydrin and epoxy resin
Poison Inhalation Hazard: No

Further Information:



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EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

Section 15: Regulatory information

US Federal Regulations

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De

Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Acute Health Hazard

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

Reaction product: bisphenol-A-(epichlorhydrin) and epoxy resin
CAS-No. 25068-38-6

New Jersey Right To Know Components

Reaction product: bisphenol-A-(epichlorhydrin) and epoxy resin
CAS-No. 25068-38-6

California Prop. 65 Components

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

Section 16: Other information

Indication of changes:

Other information:

Full text of H phrases:



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NFPA health hazard: 2- Moderately toxic or hazardous material which require additional PPE or equipment than safety goggles and gloves.

NFPA fire hazard: 1-Material requires considerable pre-heating, under all ambient temperatures before ignition can occur.

NFPA reactivity: 0-Normally stable, even under fire exposure conditions, and not reactive with water

Notice to Reader

The information provided herein is believed to be accurate at the time of preparation or prepared from sources deemed to be reliable, but it is the full responsibility of the user to investigate and comprehend other pertinent sources of information, to comply with all laws and procedures applicable to the safe handling and use of the product and to determine the suitability of the product for its intended use.

Super Stone Inc. makes no warranty, expressed or implied, concerning the product or merchantability or fitness thereof for any purpose or concerning the accuracy of any information provided by Super Stone Inc., except that the product shall conform to Super Stone's specification.



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Section 1: Identification of the Product/Company

Product Identifier:

Product Name: EPOXY HARDENER

Product Code:

Relevant identified uses of the substance or mixture

Recommended use:

Curing agent for Epoxy resins

Uses advised against:

No additional information available

Details of the supplier of the safety data sheet

Manufacturer:

Super Stone Inc.
1251 Burlington Street
Opa-Locka, FL 33054
United States
www.superstone.com
(305) 681-3561

Telephone (General)

Emergency telephone number

Manufacturer: (800) 424-9300 (Chemtrec) USA
+ 1 (703) 527-3887 (Chemtrec) International

Section 2: Hazards Identification

Classification of the substance or mixture

GHS-US classification

| | |
|------------------------------|-------------------|
| Acute toxicity (Inhalation): | Category 3, H331 |
| Skin corrosion: | Category 1B, H317 |
| Serious eye damage: | Category 1, H314 |
| Skin sensitization: | Category 1, H314 |
| Reproductive toxicity | Category 2, H361 |



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Label elements

GHS-US labeling

The substance is classified and labeled according to the Globally Harmonized System (GHS).

Hazard Pictograms (GHS-US)



GHS05



GHS08



GHS06

Signal words (GHS-US):

Danger

Hazards statements (GHS-US):

H314: Causes severe skin burns and eye damage

H317: May cause an allergic skin reaction

H331: Toxic if inhaled

H361: Suspected of damaging fertility or unborn child

Precautionary statements (GHS-US)

Prevention:

P201: Obtain special instructions before use.

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

P261: Avoid breathing dust/fume/gas/mist/vapors/spray.

P264: Wash hands thoroughly after handling.

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

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

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



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Response:

P281: Use personal protective equipment as required.

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.

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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

P308+P313: IF exposed or concerned: Get medical advice/attention.

P310: Immediately call a POISON CENTRE/doctor.
P333+P313: If skin irritation or rash occurs: Get medical advice/attention.

P363: Wash contaminated clothing before reuse.

Storage:

P403+P233: Store in a well-ventilated place. Keep container tightly closed.

P405: Store locked up.

Disposal:

P501 Dispose of contents and containers in accordance with local, regional and international regulations

Precautionary statements are listed according to the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS)-Annex III

Other hazards

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



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may not be applicable.

May cause sensitization by skin contact.

Corrosive

Very toxic by inhalation.

Unknown acute toxicity (GHS-US)

No data available

Section 3: Composition/information on ingredients

Substances

| Name | Product Identifier | % by weight | GHS-US classification |
|---------------------------------------|--------------------|-------------|---|
| Diethylenetriamine | CAS # 111-40-0 | 5-15 | Acute toxicity 3, H331 Skin corrosion 1B, H314 Serious eye damage 1, H317 Skin sensitization 1, H317 |
| Tetraethylenepentamine | CAS # 112-57-2 | 0-2.5 | Acute toxicity 3; H331 Skin corrosion 1B; H314 Skin sensitization 1; H317 Serious eye damage 1, H317 |
| Tofa, reaction products with TEPA | CAS # 68953-36-6 | 25-60 | Skin corrosion 1B; H314 Skin sensitization 1; H317 Serious eye damage 1, H317 |
| Phenol, 4,4'-(1-methylethylidene)bis- | CAS # 80-05-7 | 1-10 | Skin corrosion 1B; H314 Skin sensitization 1; H317 Serious eye damage 1, H317 |

Amounts specified are typical and do not represent a specification. Any other ingredients are either proprietary, non-hazardous or present in amounts below the reportable limits. Exact percentages are being withheld because of trade secret purposes.

Section 4: First aid measures



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Description of necessary first aid measures

First-aid measures general:

Seek medical advice. 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.

First-aid measures after inhalation:

Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

First-aid measures after skin contact:

Take off contaminated clothing and shoes immediately. Cover wound with sterile dressing. Immediately remove contaminated clothing, and any extraneous chemical, if possible to do so without delay. NOTE TO PHYSICIANS: Application of corticosteroid cream has been effective in treating skin irritation. Initiate and maintain continuous irrigation until the patient receives medical care. If medical care is not promptly available, continue to irrigate for one hour. Flush immediately with copious amounts of water.

First-aid measures after eye contact:

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.

First-aid measures after ingestion:

Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice. Prevent aspiration of vomit. Turn victim's head to the side.

Most important and effects, both acute and delayed

Symptoms:

Asthma; Eye disease; Kidney disorders; Liver disorders; Skin disorders and Allergies

Indication of any immediate medical attention and special treatment needed

No additional information available

Section 5: Firefighting measures

Extinguishing media

Suitable extinguishing media:

Use Alcohol Resistant Foam, Dry Chemical, Carbon Dioxide, Dry Sand or Limestone Powder



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Unsuitable extinguishing media:

None noted

Special hazards arising from the substance or mixture

Fire hazard:

Ammonia gas may be liberated at high temperatures. In case of incomplete combustion an increased formation of oxides of nitrogen (NOx) is to be expected. Incomplete combustion may form carbon monoxide. May generate ammonia gas; May generate toxic nitrogen oxide gases; Burning produces noxious and toxic fumes. Downwind personnel must be evacuated.

Explosion hazard:

Closed containers may rupture when exposed to extreme heat. The product may form peroxides of unknown stability and Oxides of Nitrogen and Carbon.

Reactivity:

During a fire, irritating and or toxic gases and particulate may be generated by thermal decomposition or combustion.

Advice for firefighters

Firefighting instructions:

Use water spray to keep fire exposed containers cool.

Protection during firefighting:

Wear self-contained breathing apparatus (SCBA) equipped with a full face-piece and operated in a pressure demand mode (or other positive pressure mode) and approved protective clothing. Personnel without suitable protection must leave the area to prevent significant exposure to hazardous gases from combustion, burning or decomposition. In an enclosed or poorly ventilated area, wear SBCA during clean up immediately after a fire as well as during the attack phase of the fire-fighting operations.

Additional information

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Do not allow run-off from fire-fighting to enter drains or water courses

Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

General measures:

Remove all sources of ignition (flame, hot surfaces and electrical, static or frictional sparks). Avoid contact and avoid breathing the vapors. Use self-contained breathing apparatus.

For non-emergency personnel



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Protective equipment:

Wear chemical resistance (impervious) gloves

Emergency procedures:

Evacuate the danger zone; follow emergency precautions. Secure emergency assistance immediately. Avoid contact with material. Do not breathe vapors or mists. If possible provide adequate ventilation.

For emergency responders

Protective equipment:

Equip clean-up crew with proper protection. Use appropriate personal protection equipment (PPE)

Emergency procedures:

Do not take action without proper training and emergency equipment. Evacuate surrounding areas. Eliminate all ignition sources including flares and all open flames. Avoid all contact with spiller material. Maintain adequate ventilation and wear appropriate respiratory protection.

Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewer.

Methods and material for containment and cleaning up

For containment:

Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, surface waters, basements or confined areas. Wash spillage into effluent treatment plant.

Methods for cleaning up:

Contain and collect spillage using appropriate personal protective equipment. Chemical resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products or if a risk assessment indicates that this is necessary. Collect and contain spillage with a non-combustible, absorbent material (e.g. sand, earth, vermiculite or diatomaceous earth) and place in a container for disposal in accordance with local regulations.

Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protective equipment

See Section 13 for disposal information

Section 7: Handling and storage



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Precautions for safe handling

Additional hazards when processed:

Precautions for safe handling:

Ensure good ventilation/exhaustion at the workplace. Do not breathe dust, vapor, mist or gas. Persons with a history of skin sensitization problems should not be employed in any process in which this product was used. Do not get in eyes

Hygiene measures:

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.

Conditions for safe storage, including any incompatibilities

Technical measures:

Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion proof electrical, lighting and ventilating equipment.

Storage conditions:

Keep containers tightly closed and upright when not in use. Keep from freezing. Protect from physical damage.

Incompatible products:

See section 10

Incompatible materials:

See section 10

Storage area:

The product should be stored in a cool, dry and well ventilated area, at ambient temperature directly out of the sunlight.

Special rules on packaging:

Do not store in open, unlabeled or mislabeled containers. Keep containers closed at all times when not in use.

Specific end use(s)

Coating

Section 8: Exposure controls/personal protection

Control parameters

Occupational exposure limits:



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| Chemical Name | CAS # | EXPOSURE LIMITS |
|------------------------|----------|-----------------------------------|
| Diethylenetriamine | 111-40-0 | OSHA PEL 1 ppm ACGIH TLV 1 ppm |
| Tetraethylenepentamine | 112-57-2 | OSHA PEL 1 ppm ACGIH TLV 1 ppm |

Exposure controls

Appropriate engineering controls:

Ensure all national/local regulations are observed. Gas detectors should be used when flammable gases/vapors may be released. Proper grounding procedures to avoid static electricity should be followed. Use explosion proof equipment. Ensure adequate ventilation, especially in confined areas.

Personal protective equipment:

Wear fire-proof clothing, protective goggles and gloves. Wear respiratory protection in a poor ventilated environment.

Hand protection:

Wear chemically resistant protective gloves

Eye protection:

Chemical goggles or safety glasses

Skin and body protection:

Wear fireproof clothing

Respiratory protection:

If exposure limits are exceeded or irritation is experienced, NIOSH approved respiratory protection should be worn.

Thermal hazard protection:

Wear suitable protection clothing

Other information:

When using, do not eat, drink or smoke

Section 9: Physical and chemical properties



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Information on basic physical and chemical properties

| | |
|---|----------------------------|
| Physical state: | Liquid |
| Appearance: | Transparent to Translucent |
| Color: | Amber |
| Odor: | Ammoniacal |
| Odor threshold: | No data available |
| pH: | Alkaline |
| Relative evaporation rate (butyl acetate=1): | No data available |
| Boiling Range: (Initial Boiling Point) | >374° F |
| Melting point: | No data available |
| Freezing point: | Not Determined |
| Auto-ignition temperature: | No data available |
| Decomposition temperature: | No data available |
| Flammability (solid, gas): | Not Applicable |
| Vapor pressure: | < 5.17 mm Hg @ 21° C |
| Flash Point: | 126° C (259 ° F) |
| Flash Point Method: | Open Cup |
| Relative vapor density @ 20 ° C: | Heavier than air (3.7) |
| Relative density: | 0.98 |
| Density: | 8.16 lbs / gal |
| Solubility: | Slightly soluble |
| Log Pow: | Not available |
| Log Kow: | Not available |
| Viscosity, kinematic: | Not available |
| Viscosity, dynamic: | Not available |
| Explosive properties: | None known |
| Oxidizing properties: | None known |
| Explosive limits: | Not applicable |

Other information:

N/A denotes Not Available

Section 10: Stability and reactivity

Reactivity



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No data available

Chemical Stability

Product is stable under normal storage conditions

Conditions to Avoid

No data available

Incompatible Materials

Reactive metals (e.g. sodium, calcium, zinc etc.).

Materials reactive with hydroxyl compounds.

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.

Nitrous acid and other nitrosating agents.

Organic acids (i.e. acetic acid, citric acid etc.).

Mineral acids.

Sodium hypochlorite.

Oxidizing agents.

Reaction with peroxides may result in violent decomposition of peroxide possibly creating an explosion.

Product slowly corrodes copper, aluminum, zinc and galvanized surfaces.

Hazardous Decomposition Products

Nitric Acid

Ammonia

Nitrogen oxides

Nitrogen oxide can react with water vapors to form corrosive nitric acid.

Carbon monoxide.

Carbon dioxide (CO₂).

Aldehydes

Flammable hydrocarbon fragments.

Nitrosamine.

Chlorine

Section 11: Toxicological information

Information on toxicological effects

TOXICITY MEASURES:

| Chemical Name | LD50/LC50 |
|---------------|-----------|
|---------------|-----------|



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| | |
|------------------------|--|
| Diethylenetriamine | Oral LD50: Rat 3,990 mg/kg Dermal LD50: Rabbit >2,000 mg/kg Inhalation LC 50: Rat >0.07-<0.3 mg/l/4h |
| Tetraethylenepentamine | Oral LD50: Rat >2,000-5,000 mg/kg Dermal LD50: Rabbit >1,000-2,000 mg/kg |

Skin corrosion/irritation:

Irritation, may cause burns on long term exposure

Serious eye damage/irritation:

Risk of serious eye damage and blindness is probable

Respiratory or skin sensitization:

Not classified, not sensitizing

Germ cell mutagenicity:

This product presents negative results of mutagenicity in mammals.

Carcinogenicity:

Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Reproductive toxicity:

Demonstrated reproductive toxicity

Specific target organ toxicity (single exposure):

Central nervous system

Specific target organ toxicity (repeated exposure):

May cause damage to organs (Central Nervous System) through prolonged or repeated exposure

Aspiration hazard:

No information available

Symptoms/injuries after inhalation:

The product contains organic solvents which in case of overexposure may depress the central nervous system. Abusive inhalation has been reported to be associated with birth defects in the offspring of the abusers.

Symptoms/injuries after eye contact:

Burning and stinging of the eyes may persist

Symptoms/injuries after ingestion:

Harmful if swallowed as product may enter lungs

Section 12: Ecological information

All work practices must be aimed at eliminating environmental contamination.



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Toxicity:

Persistence and degradability

No data available on the product itself

Bio-accumulative potential

No data available on the product itself

Mobility in soil

No data available on the product itself

Other adverse effects

Not classified as a PBT or vPvB;

Section 13: Disposal considerations

Waste treatment methods

Regional legislation (waste):

Dispose of unused contents (incineration) in accordance with national and local regulations.

Waste disposal recommendations:

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain residues which should be disposed of properly. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and run-off contact with waterways, drains and sewers. Subject to the disposal regulations in the U.S. EPA 40 CFR 262 Hazardous Waste Number(s): U154

Section 14: Transport information

In accordance with ICAO/IATA/DOT/TGD

Land transport

Department of transportation (DOT):

This product is classified as Dangerous Goods, per U.S DOT regulations, under 49 CFR 172.101

UN No:

2735

Proper Shipping Name:

Polyamines, liquid, corrosive, n.o.s.,

Hazard classes:

8

Packing group (DOT):

III

Marine Pollutant:

Yes



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DOT Special Provisions (49 CFR 172.101): 83

Transport by sea

INTERNATIONAL MARITIME ORGANIZATION SHIPPING INFORMATION (IMO)

UN No.: 2735
 Proper Shipping Name: Polyamines, liquid, corrosive, n.o.s.,
 Hazard Class Number: 8
 Packing Group: III
 Marine Pollutant: Yes
 Special Provisions: Reference IMDG Code part3

Air transport

INTERNATIONAL AIR TRANSPORT ASSOCIATION SHIPPING INFORMATION (IATA):

This product is classified as dangerous goods per IATA

UN Number: 2735
 Proper Shipping Name: Polyamines, liquid, corrosive, n.o.s.,
 Hazard Class or Division: 8
 Marine Pollutant: Yes
 Special Provisions: Reference IATA Dangerous Goods Regulation

Section 15: Regulatory information

U.S. Federal Regulations

U.S. OSHA Regulatory Status:

This material is classified as hazardous under OSHA regulations

U.S SARA Reporting Requirements:

The following components of this product are subject to reporting requirements of sections 302, 304 and 313 of Title III of the Superfund Amendments and Reauthorization Act.

| CHEMICAL | SECTION 302 EHS (TPQ) (40 CFR 355, Appendix A) | SECTION 304 RQ (40 CFR Table 302.4) | SECTION 313 TRI (40 CFR 372.65) |
|--|---|--|------------------------------------|
| Diethylenetriamine | No | No | No |
| Tetraethylenepentamine | No | No | No |
| Phenol, 4,4'-(1-methylethylidene) bis- | No | No | Yes (above de minimus level) |



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SARA Section 311/312 (40 CFR 370) Hazard Categories:

This product is a hazardous chemical under 29 CFR 1910.1200, and is categorized as an immediate and delayed health hazard. SARA requires reporting of any spill of hazardous substance.

Toxic Substances Control Act (TSCA):

All components of this product are listed or are exempt from listing on the TSCA inventory

California Safe Drinking Water and Toxic Enforcement Act (Proposition 65):

Not listed

European Inventory of Existing Chemicals (EINECS):

All of the components of this product are included on EINECS.

Section 16: Other information

Indication of changes:

Other information:

Full text of H phrases:



NFPA health hazard: 3-Short exposure could cause serious, temporary or moderate residual injury.

NFPA fire hazard: 1-Material requires considerable pre-heating, under all ambient temperatures before ignition can occur.

NFPA reactivity: 0-Normally stable, even under fire exposure conditions, and not reactive with water

Notice to Reader

The information provided herein is believed to be accurate at the time of preparation or prepared from sources deemed to be reliable, but it is the full responsibility of the user to investigate and comprehend other pertinent sources of information, to comply with all laws



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and procedures applicable to the safe handling and use of the product and to determine the suitability of the product for its intended use. **Super Stone Inc. makes no warranty, expressed or implied, concerning the product or merchantability or fitness thereof for any purpose or concerning the accuracy of any information provided by Super Stone Inc.,** except that the product shall conform to Super Stone's specification.