



Safety Data Sheet

Section 1: Identification of the Product/Company

Product Identifier:**Product Name:** SEAMLESS 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
(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**

Serious eye damage/Eye Irritation:	Category 1, H318
Skin sensitization:	Category 1, H317
Reproductive toxicity:	Category 2, H361
Germ Cell Mutagenicity:	Category 1B, H340
Carcinogenicity:	Category 1B, H350
Hazardous to aquatic environment, acute toxicity:	Category 2, H402



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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



GHS07

Signal words (GHS-US):

Danger

Hazards statements (GHS-US):

H314: Causes severe skin burns and eye damage

H317: May cause an allergic skin reaction

H340: May cause genetic defects

H350: May cause cancer

H361: Suspected of damaging fertility or unborn child

H402: Toxic to aquatic life

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.

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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P281: Use personal protective equipment as required.

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.

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:

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

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.



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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
Bisphenol A Polyglycidyl Ether Resin	CAS # 25068-38-6	60-100	Skin irritation 2, H315 Eye irritant 2A, H319 Sensitization skin 1, H317
4-Nonylphenol	CAS # 84852-15-3	7-13	Acute toxicity 4; H302 Skin corrosion 1B; H314 Reproductive 2; H361 Aquatic acute & chronic 1, H410
Neopentyl glycol diglycidyl ether	CAS # 17557-23-2	7-13	Skin irritation 2, H315 Eye irritant 2A, H319 Sensitization skin 1, H317
Petroleum naphtha, heavy alkylate	CAS # 64741-65-7	0.1-1	Flammable liquid 3, H226 Aspiration hazard 1, H304 Aquatic hazard chronic 4, H413
Aromatic petroleum distillates	CAS # 64742-95-6	0.1-1	Flammable liquid 2, H225 Acute toxicity 4, H302 Skin corrosion/irritation 3, H316 Eye irritant 2A, H319 Aspiration hazard 1, H304

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.



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Section 4: First aid measures

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 to fresh air.

First-aid measures after skin contact:

If skin irritation occurs: Get medical advice/attention. Destroy or thoroughly clean contaminated shoes. Immediately remove contaminated clothing and shoes and wash skin with soap and plenty of water. If skin irritation or an allergic skin reaction develops, get medical attention.

First-aid measures after eye contact:

Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Call a physician or poison control center immediately.

First-aid measures after ingestion:

Call a POISON CENTER/doctor/.../if you feel unwell. Rinse mouth.

Most important and effects, both acute and delayed

Symptoms:

Extreme irritation of eyes and mucous membranes, including burning and tearing.

Indication of any immediate medical attention and special treatment needed

Treatment: Symptoms may be delayed.

Section 5: Firefighting measures

Extinguishing media

Suitable extinguishing media:

Use fire-extinguishing media appropriate for surrounding materials

Unsuitable extinguishing media:

Do not use water-jet as an extinguisher as this will spread the fire

Special hazards arising from the substance or mixture

Fire hazard:

During fire, gases hazardous to health may be formed



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Explosion hazard:

No unusual fire or explosion hazard noted

Advice for firefighters

Firefighting instructions:

No data available

Protection during firefighting:

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Additional information

Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.

Environmental precautions

Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid release to the environment.

Methods and material for containment and cleaning up

Dam and absorb spillages with sand, earth or other non-combustible material. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.

Notification Procedures

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable 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

Precautions for safe handling

Wash hands thoroughly after handling. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective



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equipment as required. Do not get in eyes. Do not get in eyes, on skin, on clothing. Avoid contact with eyes, skin, and clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store locked up

Specific end use(s)

Coating

Section 8: Exposure controls/personal protection

Control parameters

Occupational exposure limits:

Chemical Name	CAS #	EXPOSURE LIMITS
Petroleum naphtha, heavy alkylate	64741-65-7	OSHA PEL 100 ppm

Exposure controls

Appropriate engineering controls:

Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of vapors and mist. Mechanical ventilation or local exhaust ventilation may be required.

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:

Wear full face respirator, if needed. Wear safety glasses with side shields (or goggles) and a face shield.



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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:

In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.

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

General information:

Provide easy access to water supply and eye wash facilities. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Section 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state:

Liquid

Appearance:

Liquid

Color:

Milky White



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Odor:	Slight
Odor threshold:	No data available
pH:	No data available
Relative evaporation rate (butyl acetate=1):	Slower
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:	No data available
Flash Point:	No data available
Flash Point Method:	Not Applicable
Relative vapor density @ 20 °C:	Heavier than air
Relative density:	1.13
Density:	9.41 lbs / gal
Solubility:	Miscible with water
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:	No data available

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



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Amines; Epoxides; Avoid contact with acids, bases, organic alkalies

Hazardous Decomposition Products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors

Section 11: Toxicological information

Information on likely routes of exposure

Ingestion: May be ingested by accident. Ingestion may cause irritation and malaise.

Inhalation: In high concentrations, vapors, fumes or mists may irritate nose, throat and mucus membranes.

Skin Contact: May be harmful in contact with skin. Causes mild skin irritation. May cause an allergic skin reaction.

Eye contact: Causes serious eye damage.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product: ATEmix: 13,358.14 mg/kg

Dermal

Product: ATEmix: 3,457.07 mg/kg

Inhalation

Product: 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.

Specified substance(s):

Bisphenol A

Polyglycidyl Ether

Resin

in vivo (Rabbit, 24 hrs): Slightly irritating

4-Nonylphenol in vivo (Rabbit, 24 - 72 hrs): Corrosive

Aromatic petroleum



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distillates

in vivo (Rabbit, 24 - 72 hrs): Not irritating

Respiratory or Skin Sensitization

Product: No data available.

Carcinogenicity

Product: May cause cancer.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

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: Suspected of damaging fertility or the unborn child.

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

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: No data available.



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Specified substance(s):

4-Nonylphenol LC 50 (Fathead minnow (*Pimephales promelas*), 96 h): 0.13825 mg/l
Mortality

Aquatic Invertebrates

Product: No data available.

Specified substance(s):

4-Nonylphenol LC 50 (Amphipod (*Leptocheirus plumulosus*), 144 h): +/- 0.05 mg/l Mortality

EC 50 (Clam (*Mulinia lateralis*), 24 h): +/- +/- 0.05 mg/l Mortality

LC 50 (Marsh grass shrimp (*Palaemonetes vulgaris*), 72 h): > 0.05 - 0.1 mg/l
Mortality

LC 50 (Amphipod (*Leptocheirus plumulosus*), 72 h): > 0.05 - 0.1 mg/l

Mortality

LC 50 (American lobster (*Homarus americanus*), 48 h): > 0.1 - 0.15 mg/l

Mortality

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Specified substance(s):

4-Nonylphenol LOAEL (*Lepomis macrochirus*, 28 d): 0.126 mg/l experimental result

Aromatic petroleum

distillates

NOAEL (*Daphnia magna*, 21 d): 2.6 mg/l read across

Aquatic Invertebrates

Product: No data available.

Toxicity to Aquatic Plants

Product: No data available.

Persistence and Degradability

Biodegradation

Product: No data available.

BOD/COD Ratio

Product: No data available.

Bioaccumulative Potential

Bioconcentration Factor (BCF)

Product: No data available.

Specified substance(s):

4-Nonylphenol Fathead minnow (*Pimephales promelas*), Bioconcentration Factor (BCF):

498 (Flow through)



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Partition Coefficient n-octanol / water (log Kow)

Product: No data available.

Mobility in Soil: No data available.

Other Adverse Effects: Toxic to aquatic organisms

Section 13: Disposal considerations

Disposal instructions: Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Contaminated Packaging: No data available.

Section 14: Transport information

In accordance with ICAO/IATA/DOT/TGD

Land transport

Department of transportation (DOT):

Not regulated

Transport by sea

INTERNATIONAL MARITIME ORGANIZATION SHIPPING INFORMATION (IMO)

Not regulated

Air transport

INTERNATIONAL AIR TRANSPORT ASSOCIATION SHIPPING INFORMATION (IATA):

Not regulated

Further Information:

Section 15: Regulatory information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Chemical Identity Reportable quantity

4-Nonylphenol De minimis concentration: 1.0% One-Time Export Notification only.

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

None present or none present in regulated quantities.



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CERCLA Hazardous Substance List (40 CFR 302.4):

None present or none present in regulated quantities.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate (Acute) Health Hazards

Delayed (Chronic) Health Hazard

SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

SARA 304 Emergency Release Notification

None present or none present in regulated quantities.

SARA 311/312 Hazardous Chemical

Chemical Identity Threshold Planning Quantity

Bisphenol A Polyglycidyl

Ether Resin

500 lbs

4-Nonylphenol 500 lbs

Neopentyl glycol diglycidyl

ether

500 lbs

Petroleum naphtha, heavy

alkylate

500 lbs

Aromatic petroleum

distillates

500 lbs

SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65

No ingredient regulated by CA Prop 65 present.

US. New Jersey Worker and Community Right-to-Know Act

No ingredient regulated by NJ Right-to-Know Law present.

US. Massachusetts RTK - Substance List



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Chemical Identity

4-Nonylphenol

US. Pennsylvania RTK - Hazardous Substances

Chemical Identity

4-Nonylphenol

US. Rhode Island RTK

No ingredient regulated by RI Right-to-Know Law present.

Other Regulations:

When appropriately mixed with the other part, product has a VOC less water and exempt solvent

of:

3.3 g/L

Inventory Status:

Australia AICS: One or more components in this product are not listed on or exempt from the Inventory.

Canada DSL Inventory List: All components in this product are listed on or exempt from the Inventory.

EINECS, ELINCS or NLP: One or more components in this product are not listed on or exempt from the Inventory.

Japan (ENCS) List: One or more components in this product are not listed on or exempt from the Inventory.

China Inv. Existing Chemical Substances: One or more components in this product are not listed on or exempt from the Inventory.

Korea Existing Chemicals Inv. (KECI): One or more components in this product are not listed on or exempt from the Inventory.

Canada NDSL Inventory: One or more components in this product are not listed on or exempt from the Inventory.

Philippines PICCS: One or more components in this product are not listed on or exempt from the Inventory.

US TSCA Inventory: All components in this product are listed on or exempt from the Inventory

New Zealand Inventory of Chemicals: One or more components in this product are not listed on or exempt from the Inventory.

Japan ISHL Listing: One or more components in this product are not listed on or exempt from the Inventory.



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Japan Pharmacopoeia Listing: One or more components in this product are not listed on or exempt from the Inventory.

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 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: SEAMLESS EPOXY HARDENER (PART B)

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

Skin corrosion/Irritation:	Category 1A, H314
Serious eye damage/Eye Irritation:	Category 1, H318
Skin sensitization:	Category 1, H317
Reproductive toxicity:	Category 2, H361
Germ Cell Mutagenicity:	Category 1B, H340
Carcinogenicity:	Category 1B, H350
Hazardous to aquatic environment, acute toxicity:	Category 2, H401



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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

GHS07

Signal words (GHS-US):

Danger

Hazards statements (GHS-US):

H314: Causes severe skin burns and eye damage

H317: May cause an allergic skin reaction

H340: May cause genetic defects

H350: May cause cancer

H361: Suspected of damaging fertility or unborn child

H402: Toxic to aquatic life

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.



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P280: Wear protective gloves/protective clothing/eye protection/face protection.
P281: Use personal protective equipment as required.

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.
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:

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

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



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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.

Unknown acute toxicity (GHS-US)

No data available

Section 3: Composition/information on ingredients

Substances

Name	Product Identifier	% by weight	GHS-US classification
Poly(oxypropylene) diamine	CAS # 9046-10-0	30-60	Skin corrosion 1B, H314 Hazardous to aquatic life 3, H412
4-Nonylphenol	CAS # 84852-15-3	15-40	Acute toxicity 4; H302 Skin corrosion 1B; H314 Reproductive 2; H361 Aquatic acute & chronic 1, H410
Benzyl Alcohol	CAS # 100-51-6	10-30	Acute toxicity 4; H302 + H332 Eye Irritation 2A; H319 Aquatic toxicity acute 2, H401
4,4'-diaminodicyclohexyl methane	CAS # 1761-71-3	5-10	Acute toxicity 4; H302 Skin corrosion 1B; H314 Skin sensitization 1; H317 Serious eye damage 1, H317 STOT RE 2, H373 Aquatic acute & chronic 2, H411
N Amino ethyl piperazine	CAS # 140-31-8	1-5	Flammable liquid 4, H227 Acute toxicity 4; H302 Acute toxicity 3, H311 Skin corrosion 1B; H314 Skin sensitization 1; H317



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			Serious eye damage 1, H317 Aquatic acute & chronic 3, H412
Aromatic petroleum distillates	CAS # 64742-95-6	0.1-1	Flammable liquid 2, H225 Acute toxicity 4, H302 Skin corrosion/irritation 3, H316 Eye irritant 2A, H319 Aspiration hazard 1, H304

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:

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:

Call a physician or poison control center immediately. If breathing stops, provide artificial respiration. Move to fresh air. If breathing is difficult, give oxygen.

First-aid measures after skin contact:

Call a physician or poison control center immediately. Destroy or thoroughly clean contaminated shoes. Immediately remove contaminated clothing and shoes and wash skin with soap and plenty of water. If skin irritation or an allergic skin reaction develops, get medical attention.

First-aid measures after eye contact:

Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Call a physician or poison control center immediately.

First-aid measures after ingestion:

Rinse mouth. Call a physician or poison control center immediately. Never give liquid to an unconscious person. Do not induce vomiting without advice from poison control center.

Most important and effects, both acute and delayed

Symptoms:



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Prolonged or repeated contact with skin may cause redness, itching, irritation and eczema/chapping. Extreme irritation of eyes and mucous membranes, including burning and tearing.

Indication of any immediate medical attention and special treatment needed

Treatment: Symptoms may be delayed.

Section 5: Firefighting measures

Extinguishing media

Suitable extinguishing media:

Use fire-extinguishing media appropriate for surrounding materials

Unsuitable extinguishing media:

Do not use water-jet as an extinguisher as this will spread the fire

Special hazards arising from the substance or mixture

Fire hazard:

During fire, gases hazardous to health may be formed

Explosion hazard:

No unusual fire or explosion hazard noted

Advice for firefighters

Firefighting instructions:

No data available

Protection during firefighting:

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Additional information

Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.

Environmental precautions



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Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid release to the environment.

Methods and material for containment and cleaning up

Dam and absorb spillages with sand, earth or other non-combustible material. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.

Notification Procedures

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable 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

Precautions for safe handling

Wash hands thoroughly after handling. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Do not get in eyes. Do not get in eyes, on skin, on clothing. Avoid contact with eyes, skin, and clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store locked up

Specific end use(s)

Coating

Section 8: Exposure controls/personal protection

Control parameters

Occupational exposure limits:

None of the components have assigned exposure limits.

Exposure controls

Appropriate engineering controls:

Observe good industrial hygiene practices. Observe occupational exposure
Observe good industrial hygiene practices. Observe occupational exposure



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limits and minimize the risk of inhalation of vapors and mist. Mechanical ventilation or local exhaust ventilation may be required.

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:

Wear full face respirator, if needed. Wear safety glasses with side shields (or goggles) and a face shield.

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:

In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.

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

General information:

Provide easy access to water supply and eye wash facilities. Good general ventilation (typically 10 air



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changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Section 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state:	Liquid
Appearance:	Translucent
Color:	Amber
Odor:	Mild pungent
Odor threshold:	No data available
pH:	Alkaline
Relative evaporation rate (butyl acetate=1):	Slower
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:	No data available
Flash Point:	No data available
Flash Point Method:	Not Applicable
Relative vapor density @ 20 °C:	Heavier than air
Relative density:	0.99
Density:	8.25 lbs / gal
Solubility:	Practically insoluble in water
Log Pow:	Not available
Log Kow:	Not available
Viscosity, kinematic:	Not available
Viscosity, dynamic:	Not available
Explosive properties:	None known
Oxidizing properties:	None known



Safety Data Sheet

Explosive limits:

No data available

Other information:

N/A denotes Not Available

Section 10: Stability and reactivity

Reactivity

No data available

Chemical Stability

Product is stable under normal storage conditions

Conditions to Avoid

Avoid heat or contamination

Incompatible Materials

Avoid contact with acids

Hazardous Decomposition Products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors

Section 11: Toxicological information

Information on likely routes of exposure

Ingestion: May be harmful if swallowed.

Inhalation: In high concentrations, vapors, fumes or mists may irritate nose, throat and mucus membranes.

Skin Contact: May be harmful in contact with skin. Causes severe skin burns. May cause an allergic skin reaction.

Eye contact: Causes serious eye damage.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product: ATEmix: 2,299.68 mg/kg

Dermal

Product: ATEmix: 2,889.71 mg/kg

Inhalation

Product: No data available.

Repeated dose toxicity

Product: No data available.



Safety Data Sheet

Skin Corrosion/Irritation

Product: No data available.

Serious Eye Damage/Eye Irritation

Product: No data available.

Specified substance(s):

Poly(oxypropylene)

diamine

in vivo (Rabbit, 24 hrs): Corrosive

4-Nonylphenol in vivo (Rabbit, 24 - 72 hrs): Corrosive

Benzyl alcohol in vivo (Rabbit, 1 - 72 hrs): Irritating

4,4'-

diaminodicyclohexyl

methane

in vivo (Rabbit, 1 hrs): Category 1

N Amino ethyl

piperazine

in vivo (Rabbit, 24 hrs): Highly irritating

Aromatic petroleum

distillates

in vivo (Rabbit, 24 - 72 hrs): Not irritating

Respiratory or Skin Sensitization

Product: No data available.

Carcinogenicity

Product: May cause cancer.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

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



Safety Data Sheet

Germ Cell Mutagenicity

In vitro

Product: No data available.

In vivo

Product: No data available.

Reproductive toxicity

Product: Suspected of damaging fertility or the unborn child.

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

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: No data available.

Specified substance(s):

4-Nonylphenol LC 50 (Fathead minnow (*Pimephales promelas*), 96 h): 0.13825 mg/l

Mortality

Benzyl alcohol LC 50 (Fathead minnow (*Pimephales promelas*), 96 h): 460 mg/l Mortality

N Amino ethyl piperazine LC 50 (Fathead minnow (*Pimephales promelas*), 96 h): 1,950 - 2,460 mg/l

Mortality

Aquatic Invertebrates

Product: No data available.

Specified substance(s):

4-Nonylphenol LC 50 (Amphipod (*Leptocheirus plumulosus*), 144 h): +/- 0.05 mg/l Mortality

EC 50 (Clam (*Mulinia lateralis*), 24 h): +/- +/- 0.05 mg/l Mortality

LC 50 (Marsh grass shrimp (*Palaemonetes vulgaris*), 72 h): > 0.05 - 0.1 mg/l



Safety Data Sheet

Mortality

LC 50 (Amphipod (*Leptocheirus plumulosus*), 72 h): > 0.05 - 0.1 mg/l

Mortality

LC 50 (American lobster (*Homarus americanus*), 48 h): > 0.1 - 0.15 mg/l

Mortality

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Specified substance(s):

4-Nonylphenol LOAEL (*Lepomis macrochirus*, 28 d): 0.126 mg/l experimental result

Aromatic petroleum

distillates

NOAEL (*Daphnia magna*, 21 d): 2.6 mg/l read across

Aquatic Invertebrates

Product: No data available.

Toxicity to Aquatic Plants

Product: No data available.

Persistence and Degradability

Biodegradation

Product: No data available.

BOD/COD Ratio

Product: No data available.

Bioaccumulative Potential

Bioconcentration Factor (BCF)

Product: No data available.

Specified substance(s):

4-Nonylphenol Fathead minnow (*Pimephales promelas*), Bioconcentration Factor (BCF): 498 (Flow through)

Partition Coefficient n-octanol / water (log Kow)

Product: No data available.

Specified substance(s):

Benzyl alcohol Log Kow: 1.10

Mobility in Soil: No data available.

Other Adverse Effects: Toxic to aquatic organisms

Section 13: Disposal considerations



Safety Data Sheet

Disposal instructions: Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Contaminated Packaging: No data available.

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:	1760
Proper Shipping Name:	Corrosive liquid n.o.s (Alkaline Amine)
Hazard classes:	8
Packing group (DOT):	II
Marine Pollutant:	Yes

Transport by sea

INTERNATIONAL MARITIME ORGANIZATION SHIPPING INFORMATION (IMO)

UN No.:	1760
Proper Shipping Name:	Corrosive liquid n.o.s (Alkaline Amine)
Hazard Class Number:	8
Packing Group:	II
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:	1760
Proper Shipping Name:	Corrosive liquid n.o.s (Alkaline Amine)
Hazard Class or Division:	8
Marine Pollutant:	Yes

Further Information:



Safety Data Sheet

The above shipping description may not be accurate for all container sizes and all modes of transportation.

Please refer to Bill of Lading.

Section 15: Regulatory information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpart. D)

Chemical Identity Reportable quantity

4-Nonylphenol De minimis concentration: 1.0% One-Time Export Notification only.

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

None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

None present or none present in regulated quantities.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate (Acute) Health Hazards

Delayed (Chronic) Health Hazard

SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

SARA 304 Emergency Release Notification

None present or none present in regulated quantities.

SARA 311/312 Hazardous Chemical

Chemical Identity Threshold Planning Quantity

Poly(oxypropylene) diamine 500 lbs

4-Nonylphenol 500 lbs

Benzyl alcohol 500 lbs

4,4'-diaminodicyclohexyl methane 500 lbs

N Amino ethyl piperazine 500 lbs

Aromatic petroleum distillates 500 lbs

SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65



Safety Data Sheet

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

US. New Jersey Worker and Community Right-to-Know Act

Chemical Identity

N Amino ethyl piperazine

US. Massachusetts RTK - Substance List

Chemical Identity

4-Nonylphenol

Benzyl alcohol

N Amino ethyl piperazine

US. Pennsylvania RTK - Hazardous Substances

Chemical Identity

4-Nonylphenol

Benzyl alcohol

N Amino ethyl piperazine

US. Rhode Island RTK

No ingredient regulated by RI Right-to-Know Law present.

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.



Safety Data Sheet

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

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