

Safety Data Sheet
Acid Shield Epoxy Base - Part A

Section 1. Product and Company Identification

Product Name: Acid Shield Epoxy Base – Part A
Supplier: NRI 3875 Fiscal Court, Ste #100 Riviera Beach, FL 33404 (561) 683-6992
Emergency Phone Number: 800-535-5053
Product Description: Epoxy solution
Product Use: Intended to repair pipes
Chemical Name or Synonym: N/A

Section 2. Hazards Identification

Classification of the substance or mixture:

Skin corrosion/irritation – Category 2
 Eye damage/eye irritation – Category 2A
 Skin sensitization - Category 1
 Chronic Aquatic Toxicity – Category 2

Label Elements:



Hazard Statements:

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

Signal Word: Warning

Precautionary Statement:

P362 - Take off contaminated clothing and wash before reuse
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection
 P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
 P273 - Avoid release to the environment
 P391 - Collect spillage

Section 3. Composition/ Information on Ingredients

Chemical Name	CAS-No	Weight %
Phenol-formaldehyde polymer, glycidyl ether	28064-14-4	60 – 85



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Trimehylolpropane triglycidyl ether	30499-70-8	7 – 15
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The rest of the ingredients are not considered hazardous according to OSHA guidelines

Section 4. First Aid Measures

First Aid Measures for Accidental:

General Advice: If symptoms persist, call a physician. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing.

Eye Contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.

Skin Contact: Remove contaminated clothing. Wipe excess from skin. Lather with waterless skin cleaner and then wash with warm soap and water. If irritation occurs, get medical attention.

Ingestion: Do not induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

Inhalation Move to fresh air. If symptoms persist, call a physician.

Most important symptoms/effects, acute and delayed: Hives. Itching. Rashes. Eye irritation/reactions. Skin irritation.

Indication of immediate medical attention and special treatment needed: May cause sensitization of susceptible persons. Treat symptomatically.

Section 5. Fire Fighting Measures

Extinguishing Media: Carbon dioxide, foam, dry chemical, water fog.

Special Fire Fighting Procedures: Wear complete firefighting gear and self-contained breathing apparatus to protect against potential harmful and/or irritating fumes. Use water to keep fire exposed containers cool. Do not use high volume water jet on the fire as this may spread the area of the fire.

Special Protective Equipment for Fire-fighters: Use personal protective equipment. Wear self-contained breathing apparatus for firefighting if necessary.

Unusual Fire and Explosion Hazard: Closed containers exposed to extreme heat may rupture.

Hazardous Decomposition Materials (Under Fire Conditions): Combustion products may include, but are not limited to: phenols, carbon monoxide, carbon dioxide.

Section 6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures: Isolate area. Keep unnecessary and unprotected personnel from entering the involved area. Avoid contact with eyes, skin and clothing. Use gloves and safety glasses.

Environmental precautions: Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Avoid release to the environment

Cleanup and Disposal of Spill: Stop leak without additional risk. Dike and absorb with inert absorbent material (e.g., sand) and collect in a suitable, closed and labeled container. Wash the spill area with water and detergent. Dispose of in accordance with applicable local and federal environmental control regulations.

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Section 7. Handling and Storage

Precautions for Safe Handling: Ventilate work area. Avoid skin contact. Skin contact with hot material may cause thermal burns. Wash skin thoroughly after handling. Launder contaminated clothing before reuse or discard. Never apply a direct flame to any container of product.

Conditions for safe storage including any incompatibilities: Store in a cool, dry place with adequate ventilation. Keep in original containers. Store in tightly closed containers to prevent moisture absorption and loss of volatiles. Store away from heat and open flame.

Section 8. Exposure Controls / Personal Protection

Exposure Guidelines: None established.

Appropriate Engineering Controls: Ventilation must be adequate for most operations.

Personal Protective Equipment:

Respiratory Protection: In case of inadequate ventilation wear respiratory protection. Use respirators when exposure to vapors from heated material.

Eye / Face Protection: Wear safety glasses with side shields or chemical splash goggles when exposure is more likely.

Skin Protection: Wear liquid-proof, chemical resistant gloves (nitrile-butyl rubber, neoprene, butyl rubber or natural rubber) and full body-covering clothing.

Additional protective measures: Wash thoroughly after handling. Avoid breathing vapors from heated material. Protective skin cream barriers can be applied to hands in addition to gloves for added protection.

Section 9. Physical and Chemical Properties

Physical Appearance:	Clear liquid
Odor:	Mild
Odor Threshold:	No data available
pH:	No data available
Flash Point:	No data available
Melting Point Range:	No applicable
Boiling point:	> 245 °C
Evaporation rate (ether=1):	No data available
Flammability (solid, gas):	No data available
Flammability Limits in Air:	Not established for this product
Viscosity:	68,800 cP at 70 °F (Rheometer Method)
Water Solubility:	Insoluble
Solubility in other solvents:	No data available
Vapor Pressure:	No data available
Vapor density (Air=1)	No data available
Relative Density:	1.20 g/cm ³
Partition coefficient (n-octanol/water):	No data available
Auto-ignition Temperature:	No data available
Decomposition Temperature:	No data available

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Section 10. Stability and Reactivity

Reactivity: Stable

Chemical Stability: Stable under standard normal conditions.

Possibility of Hazardous reactions: None under normal processing. Hazardous polymerization will not occur by itself.

Conditions to Avoid: To avoid thermal decomposition, do not overheat. Incompatible products.

Incompatible Materials / Chemicals: Acids. Bases. Strong acids. Strong oxidizing agents. Reacts with amines.

Hazardous Decomposition Products: Uncontrolled exothermic reaction of epoxy resin releases carbon monoxide, carbon dioxide, phenols.

Section 11. Toxicological Information

Information on toxicological effects:

Acute toxicity

Inhalation: No known effect.

Eye contact: Irritating to eyes. Causes serious eye irritation

Skin contact: Irritating to skin. Causes skin irritation. May cause allergic skin reaction.

Ingestion: May be harmful if swallowed.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Phenol-formaldehyde polymer, glycidyl ether	>2,000 mg/kg (rat)	>2,000 mg/kg (rabbit)	-
Trimehylolpropane triglycidyl ether	>2,000 mg/kg (rat)	>2,000 mg/kg (rabbit)	-

Sensitization: May cause sensitization of susceptible persons. May cause sensitization by skin contact.

Mutagenic Effects: No information available.

Carcinogenic Effects: No information available.

Reproductive Toxicity: No information available.

Developmental Toxicity: No information available.

STOT- single exposure: No information available.

STOT- repeated exposure: No information available.

Target Organ Effects: No information available.

Aspiration Hazard: No information available.

Symptoms related to the physical, chemical and toxicological characteristics: No data available

Delayed and immediate effects and also chronic effects from short and long term exposure:

Short term exposure: No specific data.

Long term exposure: No specific data

Section 12. Ecological Information

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Ecotoxicity Effects:

	Freshwater fish (LC50)	Algae (EC50)	Leuciscus idus (LC50)	Daphnia magna (EC50)
Trimehylolpropane triglycidyl ether	10 – 100 mg/L	>100 mg/L	-	-
Phenol-formaldehyde polymer, glycidyl ether	-	-	5.7 mg/L	3.5 mg/L

Persistence and degradability: Not readily biodegradable

Bioaccumulative potential: Bioconcentration potential is moderate.

Mobility in soil: No information available.

Other adverse effects: No information available.

Section 13. Disposal Considerations

Waste treatment methods: Do not dump to ground, sewers or watercourses. Dispose of at a licensed waste disposal facility utilizing methods that are in compliance with all applicable federal, state and local laws regulations. Waste characterization and compliance with applicable laws are the responsibility solely of the waste generator.

Uncleaned packaging: Empty containers should be taken to an approved waste handling site for recycling or disposal.

Section 14. Transport Information

IMDG

Shipping Name: Environmentally hazardous substance, liquid, n.o.s.
Technical shipping name: Epoxy resin.
U.N. number: UN 3082.
Hazard class: Class 9.
Packing group: III
Ems number: F-A, S-F
Marine pollutant: Yes
Environmental Hazard: Yes

IATA / ICAO

Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s.
Technical shipping name: Epoxy resin
UN-Number: UN3082
Hazard Class: 9
Packing Group: III
Environmental Hazard: Yes
ERG Code: 9L



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Section 15. Regulatory Information

SARA Title III Section 311/312 (40CFR370): Acute health hazard
SARA Title III Section 313 (40CFR372): No reportable components
CERCLA Status (40CFR302): No reportable quantity components
OSHA/NTP/IARC Carcinogen status: Not listed.
TSCA Status: All components are listed on TSCA Inventory or otherwise comply with TSCA requirements.
Canada WHMIS Classification: D2B

Section 16. Other Information

Key Legend Information:

N/A – Not Applicable

ND – Not Determined

OSHA – Occupational Safety and Health Administration

NIOSH – National Institute for Occupational Safety and Health

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(R1) Revision date: 10.04.18