

Safety Data Sheet
Acid Shield Amine Base - Part B

Section 1. Product and Company Identification

Product Name: Acid Shield Amine Base - Part B
Supplier: NRI 3875 Fiscal Court, Ste #100 Riviera Beach, FL 33404 (561) 683-6992
Emergency Phone Number: 800-535-5053
Product Description: Hardener 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 1B
Acute toxicity/oral – Category 4
Acute toxicity/dermal – Category 4
Skin sensitization – Category 1

Label Elements:



Hazard Statements:

H314 Causes severe skin burns and eye damage.
H302 Harmful if swallowed
H312 Harmful in contact with skin
H317 May cause an allergic skin reaction

Signal Word: Danger

Precautionary Statement:

P260 Do not breathe mist/vapors/spray.
P264 Wash skin thoroughly after handling.
P280 Wear protective gloves / protective clothing / eye protection / face protection.
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do not induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P304 + P340 IF INHALED: Remove 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.

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

P501 Dispose of contents/container through a waste management company authorized by the local government.

Section 3. Composition/ Information on Ingredients

Chemical Name	CAS-No	Weight %
Alkylated phenolic polyamine	68413-29-6	90 – 100

Section 4. First Aid Measures

First Aid Measures for Accidental:

Eye Contact: Bathe the eye with running water for at least 15 minutes, lifting upper and lower eyelids; get medical attention if irritation develops.

Skin Contact Drench the affected skin with running water for at least 15 minutes; clean area of contact thoroughly using soap and water; remove contaminated clothing. If irritation, rash or other disorders develop, get medical attention immediately.

Ingestion Do not induce vomiting. If conscious give 3-4 glasses of water to drink immediately. If unconscious check for breathing and apply artificial respiration if necessary. If symptoms persist, call a physician.

Inhalation Move person to fresh air. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. If conscious, have the person sit down or lie down. If breathing is difficult provide oxygen if available; get medical attention.

Most important symptoms/effects, acute and delayed: Causes severe skin burns and eye damage; respiratory irritation. May cause an allergic skin reaction.

Indication of immediate medical attention and special treatment needed: Treat symptomatically. Corticoid preparations and antihistamine may assist treating skin and mucous membrane exposures. Eye wash station and emergency showers should be available.

Section 5. Fire Fighting Measures

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

Special Fire Fighting Procedures: Wear complete fire fighting 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. Keep unprotected personnel away.

Special Protective Equipment for Fire-fighters: Use protective fire fighting clothing and positive pressure self-contained breathing apparatus to protect against potential harmful and/or irritating fumes.

Unusual Fire and Explosion Hazard: None known. Treat as combustible.

Hazardous Decomposition Materials (Under Fire Conditions): Irritating or toxic substance may be emitted upon thermal decomposition including carbon monoxide, carbon dioxide and nitrogen oxides.

Section 6. Accidental Release Measures

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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. Prevent contamination of soil and water. Halt the flow of material as soon as practical; turn leaking containers leak side up to prevent the escape of liquid. Prevent from entering into drains, ditches, waterways by using sand, earth or appropriate barriers.

Cleanup and Disposal of Spill: Contain the spilled material by diking with sand, earth or other inert absorbent material; transfer to a suitable container for disposal; reuse uncontaminated material if possible; dispose of in accordance with applicable local and federal environmental control regulations. Wash the spillage site with large amounts of water.

Section 7. Handling and Storage

Precautions for Safe Handling: Avoid contact with eyes, skin and clothing; wear suitable protective clothing and personal protective equipment; avoid the inhalation of spray, mist or vapors; use with adequate ventilation. Keep away from heat and ignition sources. Do not eat, drink or smoke while handling. Wash thoroughly after handling.

Conditions for safe storage including any incompatibilities: Store in a cool, dry place with adequate ventilation. Keep containers tightly closed.

Section 8. Exposure Controls / Personal Protection

Exposure Guidelines:

Component	Exposure Limits		
	ACGIH-TLV	NIOSH	OSHA-PELs
Alkylated phenolic polyamine	1ppm (4mg/m ³) (TWA)	-	-

Appropriate Engineering Controls: Ensure adequate ventilation through local exhaust.

Personal Protective Equipment:

Respiratory Protection: A respiratory protection program in compliance with 29CFR1910.134 or other applicable regulatory standard must be followed whenever exposure limits may be exceeded, if engineering controls are not feasible, or if insufficient ventilation or workplace conditions warrant respirator use. In such cases a NIOSH-approved organic vapor/particulate respirator may serve as appropriate back-up to engineering controls.

Eye / Face Protection: Wear tight-fitting chemical safety goggles. Refer to OSHA 29CFR1910.133 and European Standard EN166.

Skin Protection: Wear impervious clothing as necessary to protect against product contact. Refer to CFR1910.132 and CFR1910.136 for OSHA approved standards on protective clothing and footwear. Wear neoprene, nitrile rubber or other suitable impervious gloves.

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. Prevent uncontrolled leakage or spillage if safe to do so. Do not allow product to enter drains or waterways.

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Section 9. Physical and Chemical Properties

Physical Appearance:	Amber liquid
Odor:	Pungent, Amine-like
Odor Threshold:	No data available
pH:	Alkaline
Flash Point:	107 °C (225 °F)
Melting Point Range:	No applicable
Boiling point:	> 200 °C (> 392 °F)
Evaporation rate (BuAcr=1):	<1
Flammability (solid, gas):	No data available
Flammability Limits in Air:	LEL: 2.2% UEL: 6.7% (DETA)
Viscosity:	≈ 1,700 cP at 70 °F (Rheometer Method)
Water Solubility:	Partial
Solubility in other solvents:	No data available
Vapor Pressure:	0.16 mmHg @ 20 °C (DETA)
Vapor density (Air=1)	3.56
Relative Density:	1.01
Partition coefficient (n-octanol/water):	No data available
Auto-ignition Temperature:	No data available
Decomposition Temperature:	No data available

Section 10. Stability and Reactivity

Reactivity: Reacts with epoxy

Chemical Stability: Stable under standard normal conditions.

Possibility of Hazardous reactions: None under normal processing. Polymerization will not occur under normal conditions.

Conditions to Avoid: Excessive heat, light, air; material is hygroscopic.

Incompatible Materials / Chemicals: Strong acids, bases, oxidizing agents.

Hazardous Decomposition Products: In combustion emits fumes of carbon dioxide, carbon monoxide and oxides of nitrogen.

Section 11. Toxicological Information

Numerical Measures of Toxicity:

Acute Oral Toxicity: LD50(rat): 4,232 mg/kg (ATE)

Acute Dermal Toxicity: LD50(rabbit): 4,240 mg/kg

Acute Inhalation Toxicity: 10 – 20 mg/l (ATE)

Information on toxicological effects:

Skin corrosion irritation: Draize Test: Corrosive

Serious eye damage irritation: Draize test: Severely irritating

Skin sensitization (guinea pig): Strong sensitizing potential

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Germ Cell Mutagenicity: Negative results from in vitro and in vivo mammalian animal studies.

Carcinogenicity: Not classified as carcinogenic. Not listed by OSHA/NTP/IARC

Reproductive Toxicity: Not classified as reproductive toxin.

Specific Target Organ Toxicity - single exposure (STOT-se): Target organ: respiratory system: local irritation of the mucous membranes.

Specific Target Organ Toxicity - repeated exposure (STOT-re): Product not classified based on data available.

Aspiration Hazard: Alkaline material, possible aspiration hazard.

Potential Health Effects:

Skin contact: Causes skin burns; may cause sensitization by skin contact. There may be irritation and redness at the site of contact. Prolonged or repeated contact may cause dermatitis.

Eye Contact: May cause eye burns with corneal injury. There may be irritation and redness.

Ingestion: May be harmful if swallowed; may cause burns to the gastrointestinal tract. Nausea and stomach pain may occur. There may be vomiting, loss of consciousness, convulsions.

Inhalation: Causes respiratory tract irritation with possible burns. Exposure may cause coughing or wheezing; there may be congestion of the lungs causing severe shortness of breath. There may be loss of consciousness; convulsions may occur.

Chronic Health Effects: May cause target organ damage (respiratory). May cause an allergic skin reaction. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Section 12. Ecological Information

Ecotoxicity:

Acute / prolonged toxicity to fish LC50 (fish): >100 mg/l (ATE)

Acute / prolonged toxicity to aquatic invertebrates EC50 (daphnia magna): >100 mg/l (ATE)

Acute / prolonged toxicity to aquatic plants EC50 (Algae): >100 mg/l (ATE)

Persistence and degradability: Not readily biodegradable.

Bioaccumulative potential: No data available.

Mobility in soil: No data available

Results of PBT and vPvB assessment: Product not classified as Persistent, bioaccumulative and toxic.

Other adverse effects: No other adverse effects are identified.

Section 13. Disposal Considerations

Waste treatment methods: Do not dump to ground, sewers or watercourses. Reuse uncontaminated material when possible. Consult local/regional disposal authorities; material may be burned in a chemical incinerator equipped with an afterburner and scrubber system. All methods of disposal must be in compliance with all applicable federal, state and local environmental control laws and regulations. Waste characterization according to RCRA guidelines and compliance with applicable laws are the responsibility solely of the waste generator.

Uncleaned packaging: Containers should be drained of all residual product prior to disposal. Do not reuse empty containers without commercial cleaning or reconditioning.

Section 14. Transport Information

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DOT

Shipping Name: Amines, liquid, corrosive, n.o.s.
Technical shipping name: Amine.
U.N. number: UN 2735.
Hazard class: Class 8.
Packing group: III
ERG No 153

IMDG

Shipping Name: Amines, liquid, corrosive, n.o.s.
Technical shipping name: Amine.
U.N. number: UN 2735.
Hazard class: Class 8.
Packing group: III
Marine pollutant: No
EmS No. F-A, S-A

IATA

Shipping Name: Amines, liquid, corrosive, n.o.s.
Technical shipping name: Amine.
U.N. number: UN 2735.
Hazard class: Class 8.
Packing group: III
EmS No. F-A, S-A

Section 15. Regulatory Information

SARA Title III Section 311/312 (40CFR370): Acute health hazard, chronic health hazard

SARA Title III Section 313 (40CFR372): No reportable components

CERCLA Status (40CFR302): No Reportable Quantity components

RCRA Status (40CFR261): Not listed

TSCA Inventory Status: Reported/included

Canadian DSL Status: Reported/included

OSHA /NTP / IARC Carcinogen Status: Not listed

Canadian WHMIS Classification: D2B, E

Chemicals Known to the State of California to Cause Cancer or Reproductive Toxicity: None known to be in the product at levels requiring a warning.

REACH Annex XIV (SVHC): No listed components

REACH Annex XVII: No listed components

REACH Status (EC 1907/2006): This material has been registered, pre-registered or is otherwise exempted from registration under the Registration, Evaluation and Authorization of Chemical Substances.

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Section 16. Other Information

HMIS:

Health 3
Flammability: 1
Reactivity: 1

Key Legend Information:

N/A – Not Applicable

ND – Not Determined

OSHA – Occupational Safety and Health Administration

NIOSH – National Institute for Occupational Safety and Health

The information contained herein is based on the data available to us and is believed to be accurate. The data is offered in good faith as typical values and not as product specification. The information in this data sheet was compiled from information supplied by the vendors of the components of this compound. NRI makes no warranty either expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. The recommended industrial hygiene and safe handling procedures are believed to be genuinely applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate. NRI assumes no responsibility for injury from the use of the product described herein. The information is intended only to assist in the safe handling of this material.

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