

**Safety Data Sheet**  
**Acid Shield Epoxy Base - Part A**

**Section 1. Identification of the substance/mixture and of the company/undertaking**

**1.1. Product identifier**

**Product name:** Acid Shield Epoxy Base – Part A

**Description:** Epoxy solution

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

**Recommended use:** Intended to repair pipes

**Uses advised against:** No information available

**1.3. Details of the supplier of the safety data sheet**

**Supplier:** NRI  
3875 Fiscal Court Suite #100  
Riviera Beach, FL 33404. USA.  
1- 561 - 683 - 6992

**E-mail address:** Europe@neptunerresearch.com

**1.4. Emergency telephone number:** USA 800-535-5053 (only available during office hours)  
Europe +48 33 488 12 85 (only available during office hours)

**Section 2. Hazards identification**

**2.1. Classification of the substance or mixture**

**2.1.1 Classification according to Regulation (EC) No 1272/2008 (CLP)**

Skin corrosion/irritation – Category 2

Eye damage/eye irritation – Category 2A

Skin sensitization - Category 1

Chronic Aquatic Toxicity – Category 2

**Physical hazards:** None

**2.2 Label elements**

**Hazard pictograms:**

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**Signal word:** Warning

**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

**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

**2.3. Other information**

**Section 3. Composition/ Information on Ingredients**

**3.1. Substances:** Not Applicable

**3.2. Mixtures**

Component	EC No	CAS #	Weight %	EU-GHS Substance Classification	REACH Number
Phenol-formaldehyde polymer, glycidyl ether	-	28064-14-4	50 – 80	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317) Aquatic Chronic 2 (H411)	Not data available
Trimehylolpropane triglycidyl ether	-	30499-70-8	6-12	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317) Aquatic Chronic 3 (H412)	Not data available

*The rest of the ingredients are not considered hazardous according to OSHA guidelines*  
**For the full text of the H-Statements mentioned in this Section, see Section 16**

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**Section 4. First Aid Measures**

**4.1. Description of 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.

**Inhalation** Move to fresh air. 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.

**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.

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

**Protection of first-aiders:** Use personal protective equipment. Avoid contact with skin, eyes and clothing.

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

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

**Section 5. Fire Fighting Measures**

**5.1 Extinguishing media**

**Suitable extinguishing media:** Carbon dioxide, foam, dry chemical, water fog.

**Unsuitable extinguishing media:** No data available.

**5.2 Special hazards arising from the substance or mixture**

**Hazardous combustion products:** Combustion products may include, but are not limited to: phenols, carbon monoxide, carbon dioxide.

**5.3 Advice for firefighters:** As in any fire, wear self-contained breathing apparatus and full protective gear. 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.

**Section 6. Accidental Release Measures**

**6.1 Personal precautions, protective equipment and emergency procedures**

**6.1.1 For non-emergency personnel**

**Protective equipment:** Use personal protective equipment (See Section) to prevent any contamination of skin, eyes and personal clothing.

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**Emergency procedures:** Remove ignition sources. Provide sufficient ventilation, control dust. Evacuate personnel to safe areas.

**6.1.2 For emergency responders:** Use appropriate personal protective clothing. Use gloves and safety glasses.

**6.2 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.

### **6.3. Methods and materials for containment and cleaning up**

**6.3.1 For containment:** Cover drains.

**6.3.2 For cleaning up:** Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. After cleaning, flush away traces with water.

**6.3.3 Other Information:** Clear spills immediately.

**6.4 Reference to other sections:** See Section 12 for additional information.

## **Section 7. Handling and Storage**

### **7.1 Precautions for safe handling**

**Handling:** Handle in accordance with good industrial hygiene and safety practice. Do not breathe vapors or spray mist. Use only in area provided with appropriate exhaust ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Do not take internally.

**Hygiene measures:** When using, do not eat, drink or smoke. Remove and wash contaminated clothing before re-use. Provide regular cleaning of equipment, work area and clothing. Wash thoroughly after handling.

**7.2 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.

### **7.3 Specific end use(s)**

**Exposure scenario:** No information available.

**Other guidelines:** No information available

## **Section 8. Exposure Controls / Personal Protection**

### **8.1 Control parameters**

**Exposure limits:** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

**Derived no effect level:** No information available.

**Predicted No Effect Concentration (PNEC):** No information available.

### **8.2 Exposure controls**

**8.2.1 Appropriate engineering controls:** Ensure adequate ventilation, especially in confined areas.

#### **8.2.2 Personal protective equipment**

**8.2.2.1 Eye and face protection:** Safety glasses with side-shields. Risk of contact: Tightly fitting safety goggles.

**8.2.2.2 Skin protection:** Impervious clothing and impervious gloves.

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**8.2.2.3 Respiratory protection:** If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn.

**8.3 Environmental exposure controls:** Do not allow material to contaminate ground water system.

**Section 9. Physical and Chemical Properties**

**9.1 Information on basic physical and chemical properties**

<b>Physical State:</b>	Liquid (Paste)
<b>Appearance:</b>	White
<b>Odour:</b>	Mild
<b>Odour threshold:</b>	No data available

<b><u>Property</u></b>	<b><u>Values</u></b>	<b><u>Remarks-Method</u></b>
<b>pH:</b>	No data available	None known
<b>Melting point range:</b>	No data available	None known
<b>Boiling point/boiling range:</b>	>245 °C	None known
<b>Flash Point:</b>	No data available	None known
<b>Evaporation rate:</b>	No data available	None known
<b>Flammability (solid, gas):</b>	No data available	None known
<b>Upper/lower flammability or explosive limits:</b>	No data available	None known
<b>Vapour pressure:</b>	No data available	None known
<b>Vapour density:</b>	No data available	None known
<b>Relative density:</b>	1.05 g/cm <sup>3</sup> at 75 °F	Density Cup Method
<b>Solubilities:</b>	Insoluble in water	None known
<b>Partition coefficient (n-octanol/water):</b>	No data available	None known
<b>Auto-ignition temperature:</b>	No data available	None known
<b>Decomposition temperature:</b>	No data available	None known
<b>Viscosity:</b>	No data available	None known
<b>Explosive properties:</b>	No data available	None known
<b>Oxidizing properties:</b>	No data available	None known

**9.2 Other information**

<b>VOC Content (%):</b>	No data available	None known
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**Section 10. Stability and Reactivity**

**10.1 Reactivity:** Stable

**10.2 Chemical stability:** Stable under normal conditions.

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

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

**10.5 Incompatible materials:** Acids. Bases. Amines. Strong oxidizing agents. Reacts with amines

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**10.6 Hazardous decomposition products:** Uncontrolled exothermic reaction of epoxy resin releases carbon monoxide, carbon dioxide, phenols.

**Section 11. Toxicological Information**

**11.1 Information on toxicological effects:**

**Acute toxicity:**

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)	-

**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.

**Respiratory or skin sensitization:** May cause sensitization of susceptible persons. May cause sensitization by skin contact

**Germ cell mutagenicity:** No information available.

**Carcinogenicity:** No information available.

**Reproductive toxicity:** No information available.

**STOT- single exposure:** No information available.

**STOT- repeated exposure:** 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**

**12.1 Toxicity:** Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

	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

**12.2 Persistence and degradability:** No information available.

**12.3 Bioaccumulative potential:** Bioconcentration potential is moderate.



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- 12.4 Mobility in soil:** No information available  
**12.5 Results of PBT and vPvB Assessment:** No information available.  
**12.6 Other adverse effects**  
**12.7 Additional information:** No information available.

**Section 13. Disposal Considerations**

**13.1 Waste treatment methods:**

**13.1.1 Product / Packaging disposal:** Dispose of in accordance with local regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal.

**Waste codes / waste designation according to LoW:** According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

**13.1.2 Waste treatment-relevant information:** Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**13.1.3 Sewage disposal-relevant information:** This product should not be allowed to enter drains, water courses or the soil.

**13.1.4 Other disposal recommendations:** Dispose of waste and residues in accordance with local authority requirements.

**Section 14. Transport Information**

**IMDG/IMO**

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|--|--|
| <b>14.1 UN number:</b>   | UN 3082.   |
| <b>14.2 UN proper shipping name:</b>   | Environmentally hazardous substance, liquid, n.o.s   |
| <b>14.3 Transport hazard class:</b>  | Class 9.   |
| <b>14.4 Packing group:</b>   | III  |
| <b>Description:</b>  | UN3082, Environmentally hazardous substance, liquid, n.o.s. (Phenol, polymer with formaldehyde, glycidyl ether, Bisphenol A - Epichlorohydrin polymer), 9, III, Marine Pollutant |
| <b>14.5 Environmental hazard:</b>  | Yes  |
| <b>Marine Pollutant:</b>   | Product is a marine pollutant according to the criteria set by IMDG/IMO  |
| <b>14.6 Special precaution:</b>  | None   |
| <b>EmS No.</b>   | F-A, S-F   |
| <b>14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b> | No information available   |

**ICAO**

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|--------------------------------------|--|
| <b>14.1 UN number:</b>               | UN 3082.   |
| <b>14.2 UN proper shipping name:</b> | Environmentally hazardous substance, liquid, n.o.s |
| <b>14.3 Transport hazard class:</b>  | Class 9.   |



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<b>14.4 Packing group:</b>	III
<b>Description:</b>	UN3082, Environmentally hazardous substance, liquid, n.o.s. (Phenol, polymer with formaldehyde, glycidyl ether, Bisphenol A - Epichlorohydrin polymer), 9, III, Marine Pollutant
<b>14.5 Environmental hazard:</b>	Yes
<b>14.6 Special precaution:</b>	None

### IATA

<b>14.1 UN number:</b>	UN 3082.
<b>14.2 UN proper shipping name:</b>	Environmentally hazardous substance, liquid, n.o.s
<b>14.3 Transport hazard class:</b>	Class 9.
<b>14.4 Packing group:</b>	III
<b>Description:</b>	UN3082, Environmentally hazardous substance, liquid, n.o.s. (Phenol, polymer with formaldehyde, glycidyl ether, Bisphenol A - Epichlorohydrin polymer), 9, III, Marine Pollutant
<b>14.5 Environmental hazard:</b>	Yes
<b>14.6 Special precaution:</b>	None
<b>ERG Code:</b>	9L

## Section 15. Regulatory Information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### International Inventories

**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

#### Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

PICCS - Philippines Inventory of Chemicals and Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

AICS - Australian Inventory of Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances





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**15.2 Chemical Safety Assessment:** No chemical safety assessment has been carried out for this substance/mixture by the supplier.

**Section 16. Other Information**

**Full text of H-Statements referred to under sections 2 and 3**

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H317 - May cause an allergic skin reaction

H411 - Toxic to aquatic life with long lasting effects

**Key Legend Information:**

N/A – Not Applicable

ND – Not Determined

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.

**(R1) Revision date: 10.04.18**