

Safety Data Sheet
Acid Shield Filler Epoxy Base - Part A

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

1.1. Product identifier

Product name: Acid Shield Filler Epoxy Base – Part A
Contains Bisphenol A - Epichlorohydrin polymer, Phenol, polymer with formaldehyde, glycidyl ether

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

Recommended use: Filler epoxy solution
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

Emergency telephone number: +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 | 70 – 80 | Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317) Aquatic Chronic 2 (H411) | Not data available |
| Bisphenol A – Epichlorohydrin polymer | - | 25068-38-6 | 10-20 | Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317) Aquatic Chronic 2 (H411) | Not data available |
| Propane 2,2 bis[p-2,3 | - | 25085-99-8 | 3 – 6 | Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) | Not data available |

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| | | | | | |
|-----------------------------------|--|--|--|--|--|
| epoxypropoxy)phen yl]-polymers | | | | Skin Sens. 1 (H317) Aquatic Chronic 2 (H411) | |
|-----------------------------------|--|--|--|--|--|

For the full text of the H-Statements mentioned in this Section, see Section 16

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

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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.

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.

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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.

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

| | |
|------------------|-------------------|
| Physical State: | Liquid |
| Appearance: | White |
| Odour: | Mild |
| Odour threshold: | No data available |

| <u>Property</u> | <u>Values</u> | <u>Remarks-Method</u> |
|---|---------------------|-----------------------|
| pH: | No data available | None known |
| Melting point range: | No data available | None known |
| Boiling point/boiling range: | No data available | None known |
| Flash Point: | No data available | None known |
| Evaporation rate: | No data available | None known |
| Flammability (solid, gas): | No data available | None known |
| Upper/lower flammability or explosive limits: | No data available | None known |
| Vapour pressure: | No data available | None known |
| Vapour density: | No data available | None known |
| Relative density: | 1.053 at 75 °F | Density Cup Method |
| Solubilities: | Insoluble in water | None known |
| Partition coefficient (n-octanol/water): | No data available | None known |
| Auto-ignition temperature: | No data available | None known |
| Decomposition temperature: | No data available | None known |
| Viscosity: | 813,000 cP at 70 °F | Rheometer Method |
| Explosive properties: | No data available | None known |
| Oxidizing properties: | No data available | None known |

9.2 Other information

| | | |
|------------------|-------------------|------------|
| VOC Content (%): | No data available | None known |
|------------------|-------------------|------------|

Section 10. Stability and Reactivity

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10.1 Reactivity: No data available

10.2 Chemical stability: No hazardous reaction when handled and stored according to provisions.

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.

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 |
|---------------------------------------|--------------------|-------------|-----------------|
| Bisphenol A – Epichlorohydrin polymer | 11,400 mg/kg (rat) | - | - |

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

Serious eye damage/irritation: Irritating to eyes. Causes serious eye irritation

Inhalation: No known effect.

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.

Section 12. Ecological Information

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

12.2 Persistence and degradability: No information available.

12.3 Bioaccumulative potential: No information available.

12.4 Mobility in soil: Adsorbs on soil.

12.5 Results of PBT and vPvB Assessment: No information available.

12.6 Other adverse effects

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| Chemical Name | EU - Endocrine Disrupters Candidate List | EU - Endocrine Disruptors - Evaluated Substances | Japan - Endocrine Disruptor Information |
|-------------------------------------|--|--|---|
| Bisphenol A Epichlorohydrin polymer | Group III Chemical | - | - |

12.7 Additional information

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

DOT

UN-Number: UN3082

Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s.

Hazard Class: 9

Packing Group: III

IMDG/IMO

UN number: UN 3082.

UN proper shipping name: Environmentally hazardous substance, liquid, n.o.s

Transport hazard class: Class 9.

Packing group: III

RID

UN number: UN 3082.

UN proper shipping name: Environmentally hazardous substance, liquid, n.o.s

Transport hazard class: Class 9.

Packing group: III

ADR

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UN number: UN 3082.
UN proper shipping name: Environmentally hazardous substance, liquid, n.o.s
Transport hazard class: Class 9.
Packing group: III

ICAO

UN number: UN 3082.
UN proper shipping name: Environmentally hazardous substance, liquid, n.o.s
Transport hazard class: Class 9.
Packing group: III

IATA

UN-Number: UN3082
Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s.
Hazard Class: 9
Packing Group: III

ERG Code: 9L

Section 15. Regulatory Information

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

International Inventories

TSCA: Substances comply or are exempt
EINECS/ELINCS: Not determined
DSL/NDSL: Not determined
PICCS: Not determined
ENCS: Not determined
IECSC: Not determined
AICS: Not determined
KECL: Not determined

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.

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