

Safety Data Sheet
Syntho-Poxy™ HC Resin - Part A

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

1.1. Product identifier

Product name: Syntho-Poxy™ HC Resin - Part A

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

Recommended use: Epoxy solution. Filler

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@neptuneresearch.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 Irritation - Category 2

Eye irritation - Category 2A

Skin Sensitizer - Category 1

Acute aquatic toxicity - Category 2

Chronic aquatic toxicity - Category 2

Physical hazards: None

2.2 Label elements

Hazard pictograms:

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Signal Word: Warning

Hazard Statements:

- H314 - Causes skin irritation
- H318 - Causes serious eye damage
- H317 - May cause an allergic skin reaction
- H401 - Toxic to aquatic life
- H411 - Toxic to aquatic life with long lasting effects

Precautionary Statement:

- If medical advice is needed, have product container or label at hand.
- Keep out of reach of children.
- Read label before use
- Do not breathe dust/fume/gas/mist/vapors/spray.
- Wash hands thoroughly after handling.
- Wear protective gloves/protective clothing/eye protection/face protection.
- Avoid breathing dust/fume/gas/mist/vapors/spray.
- IF ON SKIN: Wash with plenty of water.
- Specific treatment (see First-aid on this label).
- If skin irritation occurs: Get medical advice/attention.
- Take off contaminated clothing. And wash it before reuse.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- If eye irritation persists: Get medical advice/attention.
- If skin irritation or a rash occurs: Get medical advice/attention.
- Collect spillage

2.3. Other information: N/A

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
EpoxyResin, proprietary	-	Proprietary	50 - 70	Not data available	Not data available
Ceramic fibers (airborne particles of respirable size)	-	66402-68-4	25 - 40	Eye Dam. 1 (H318)	Not data available
Glycidyl Ether	-	Proprietary	1 - 5	Not data available	Not data available

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Siloxanes and Silicones, di-Me, reaction products with silica	-	Proprietary	1 - 5	Not classified *	Not data available
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*According to the notifications provided by companies to ECHA in REACH registrations no hazards have been classified.

Note: Specific chemical identity and/or exact percentage (concentration) of the composition has been withheld to protect confidentiality

Section 4. First Aid Measures

4.1. Description of first-aid measures

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 Exposure: Remove source of exposure or move person to fresh air. Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing for a duration of 30 minutes or until medical aid is available. Take care not to rinse contaminated water into the unaffected eye or onto the face. Immediately call a POISON CENTER/doctor.

Skin Exposure: Take off immediately all contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Rinse skin with lukewarm, gently flowing water for a duration of 30 minutes or until medical aid is available. Immediately call a POISON CENTER/doctor. Wash contaminated clothing before re-use or discard.

Inhalation: Remove source of exposure or move person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.

Ingestion: Do not induce vomiting. Give large amounts of water followed by milk if available. Do not give anything to a victim who is drowsy, unconscious, or convulsing. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Seek medical attention immediately.

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

4.2 Most important symptoms/effects, acute and delayed: No data available.

4.3 Indication of immediate medical attention and special treatment needed: In case of inhalation of decomposition products in a fire, symptoms may be delayed

Section 5. Fire Fighting Measures

5.1 Extinguishing media

Suitable Extinguishing Media: Dry chemical, foam, carbon dioxide water spray or fog is recommended. Water spray is recommended to cool or protect exposed materials or structures. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces. Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam. Sand or earth may be used for small fires only.

Unsuitable Extinguishing Media: High pressure water jet, Water may cause frothing.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products: Hazardous decomposition products formed under fire conditions.

5.3 Advice for firefighters: Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done safely. Move undamaged containers from immediate hazard area if it can be done safely. Water spray may be useful in minimizing or dispersing vapors and to protect personnel. Water may be ineffective but can be used to cool containers exposed to heat or flame. Caution should be exercised when using water or foam as frothing may occur, especially if sprayed into containers of hot, burning

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liquid. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations. Wear protective pressure self-contained breathing apparatus (SCBA) and full turnout gear.

Section 6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

Protective equipment: Positive pressure, full-facepiece self-contained breathing apparatus (SCBA), or positive pressure supplied air respirator with escape SCBA (NIOSH approved).

Emergency procedures: Remove ignition sources. Isolate hazard area and keep unnecessary people away. Remove all possible sources of ignition in the surrounding area. Notify authorities if any exposure to the general public or the environment occurs or is likely to occur.

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

6.2 Environmental precautions: Prevent from entering into drains, ditches, waterways by using sand, earth or appropriate barriers. 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. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3.2 For cleaning up: Cover the liquid with inert absorbent. Scoop all contaminated material into containers for proper disposal. Flush area with water to remove residues

6.3.3 Other Information: Clear spills immediately.

6.4 Reference to other sections: See Section 12 for additional information. Dispose of in accordance with applicable local and federal environmental control regulations

Section 7. Handling and Storage

7.1 Precautions for safe handling

Handling: Remove contaminated clothing and protective equipment before entering eating areas. Eyewash stations and showers should be available in areas where this material is used and stored. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit. Wear protective equipment (Section 8)

Hygiene measures: Wash hands after use. Do not get in eyes, on skin or on clothing. Do not breathe vapors or mists. Use good personal hygiene practices. Eating, drinking and smoking in work areas is prohibited.

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

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Section 8. Exposure Controls / Personal Protection

8.1 Control parameters

Exposure limits:

Component	Exposure limits		
	ACGIH	NIOSH	OSHA-PELs
Ceramic fibers (airborne Particles of Respirable size)	0.5mg/m ³ (TWA)	-	-

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: 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 chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

8.2.2.3 Respiratory protection: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

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:	Paste
Appearance:	Black paste
Odour:	No data available
Odour threshold:	No data available

Property	Values	Remarks-Method
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

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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:	No data available	None known
Specific Gravity:	No data available	None known
Solubilities:	No data available	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:	No data available	None known
Explosive properties:	No data available	None known
Oxidizing properties:	No data available	None known

9.2 Other information

VOC Content (%):	0.50%	None known
VOC Actual:	7.36 g/l	None known
% Solids by weight:	99.49%	None known

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. Polymerization will not occur under normal conditions.

10.4 Conditions to avoid: Avoid contact with heat, flame, spark and other igniter. Avoid radical forming substances (metal-ions, peroxides). Uncontrolled polymerization may cause rapid evolution of heat and increase in pressure that could result in violent rupture of sealed storage vessels or containers.

10.5 Incompatible materials: Avoid oxidizing agents, acids and bases.

10.6 Hazardous decomposition products: Carbon monoxide, carbon dioxide and various hydrocarbons upon thermal decomposition.

Section 11. Toxicological Information

11.1 Information on toxicological effects: Inhalation, ingestion or skin absorption

Aspiration Hazard: No data available.

Acute Toxicity:

Ingestion: May cause gastrointestinal disturbances such as nausea, vomiting, diarrhea and effects similar to those described in inhalation.

Inhalation: Aspiration of this product into the lungs during ingestion or vomiting may cause mild to severe pulmonary injury, possibly progressing to death.

Numerical measures of toxicity: No data available.

Symptoms related to the physical, chemical and toxicological characteristics:

Respiratory/Skin Sensitization: Inhalation of vapors may cause irritation of the respiratory tract. May cause an allergic skin reaction

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Skin corrosion/irritation: Causes skin irritation.

Eye damage/irritation: Causes serious eye irritation.

Mutagenicity: No data available.

Carcinogenicity: No data available.

Reproductive Toxicity: No data available.

Teratogenicity: No known significant effects or critical hazards.

Specific Target Organ Toxicity - single exposure (STOT-se): Exposure to high concentrations of vapors may cause central nervous system effects, including headache, drowsiness, and incoordination.

Specific Target Organ Toxicity - repeated exposure (STOT-re): No data available

Over-exposure signs / symptoms: Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

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 life. Toxic to aquatic life with long lasting effects

12.2 Persistence and degradability: No data available

12.3 Bioaccumulative potential: No data available

12.4 Mobility in soil: No data available

12.5 Results of PBT and vPvB Assessm No data available

12.6 Other adverse effects: No data 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.

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Section 14. Transport Information

IATA

UN-Number: UN3082

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

Hazard Class: 9

Packing Group: III

Special Provisions:

A97

A158

A197 (375) These substances when transported in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass of 5 kg or less for solids, are not subject to any other provisions of these Regulations provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

IMDG/IMO

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

Chemical Name	Regulation List
Epoxy Resin, proprietary	SARA312, TSCA
Ceramic fibers (airborne particles Of respirable size)	SARA313, CERCLA, HAPS, SARA312, TSCA, SARA313_PBT - SARA313_Persistent, Bioaccumulative, and Toxic (PBT) Chemicals ,ACGIH
Glycidyl Ether	SARA312,TSCA
Siloxanes and Silicones, di-Me, reaction products with silica	SARA312,TSCA

Section 16. Other Information

Key Legend Information:

N/A – Not Applicable

ND – Not Determined

N.D.A.- No data available

NE- Not established.

ACGIH – American Conference of Governmental Industrial Hygienists

OSHA – Occupational Safety and Health Administration

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TLV – Threshold Limit Value

PEL – Permissible Exposure Limit

TWA – Time Weighted Average

IARC – International Agency for Research on Cancer

DOT – Department of Transportation

IATA – International Air Transportation Association

IMO – International Maritime Organization

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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