

**Safety Data Sheet**  
**Syntho-Glass UV**

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

- 1.1. Product identifier** Syntho-Glass UV  
**1.2 Relevant identified uses:** Intended to repair pipes or for corrosion control.  
**1.3. Supplier details:** NRI  
3875 Fiscal Court, Ste #100  
Riviera Beach, FL 33404 U.S.A  
(561) 683-6992  
europe@neptunerresearch.com  
**1.4. 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 Regulation (EC) No 1272/2008**

Skin corrosion/irritation – Category 2

Skin sensitization - Category 1

Eye damage/eye irritation – Category 2A

STOT (SE) – Category 3

Hazardous to the aquatic environment (Acute hazard) – Category 3

Hazardous to the aquatic environment (Chronic hazard) – Category 3

**2.2 Label Elements: Labeling according to Regulation (EC) No. 1272/2008 [CLP]**

**Hazard pictograms:**



**Signal word:** Warning

**Hazard statements:**

H315 Causes skin irritation

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation

H335 May cause respiratory irritation

H402 Harmful to aquatic life

H412 Harmful to aquatic life with long lasting effects

**Precautionary statement:**

P264 Wash face, hands and any exposed skin thoroughly after handling

P280 Wear protective gloves/protective clothing/eye protection/face protection

P261 Avoid breathing dust/fume/gas/mist/vapours/spray

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P273 Avoid release to the environment  
 P302/P352 IF ON SKIN: Wash with plenty of soap and water  
 P305/P351/P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses. Continue Rinsing.  
 P333/P313 If skin irritation or rash develops: Get medical attention.  
 P337/P313 If eye irritation persists: Get medical attention  
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing  
 P501 Dispose of observing all Federal, State and Local regulations

**2.3. Other information:** None known

### Section 3. Composition/ Information on Ingredients

#### 3.1. Substances:

Component	EC No	CAS #	Weight %	EU-GHS Substance Classification	REACH Number
Fiberglass cloth (textile grade)	266-046-0	65997-17-3	65 – 70	Skin Irrit. 2 (H315) Eye Irrit. 2A (H319) STOT SE 3 (H335)	No data available
Poly {[oxy(methyl-1,2-ethanediyl)}, .alpha.-hydro-polymer with 1,1'-methylenebis {4-isocyanatocyclohexane	676-734-6	9042-82-4	15 – 20	Not classified	No data available
Glycerol poly(oxyethylene) poly(oxypropylene) ether	618-655-1	9082-00-2	13 – 18	Not Classified	No data available
DL-Aspartic acid, N,N'-(methylenedi-4,1-cyclohexanediyl)bis, tetraethyl ester	603-946-8	136210-30-5	< 2	Skin Sens. 1 (H317) Aquatic Acute 3 (H402) Aquatic Chronic 3 (H412)	No data available
Dicyclohexylmethane-4,4'-di isocyanate	225-863-2	5124-30-1	< 0.1	Skin Irrit. 2 (H315) Skin Sens. 1 (H317) Eye Irrit. 2A (H319) Acute Tox. 3 (H330) Resp.Sens. 1A (H334) STOT SE 3 (H335)	No data available

### Section 4. First Aid Measures

#### 4.1. Description of first-aid measures

**Eye Exposure:** Flush with copious amount of water. Preferably lukewarm, for at least 15 minutes, holding eyelids open at all times. Refer individual to a physician or ophthalmologist for immediate follow up.



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**Skin Exposure:** Remove contaminated clothing. Wash affected skin thoroughly with soap and water. Wash contaminated clothing thoroughly before reuse. Get under safety shower after removing clothing. Seek medical attention if irritation develops after area is washed.

**Inhalation:** Remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.

**Ingestion:** Do not induce vomiting. Give one to two cups of milk or water to drink. Do not give anything by mouth to an unconscious person, consult a physician.

### **4.2 Most important symptoms/effects, acute and delayed:**

**Acute Inhalation:** May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**Acute Eye:** May cause eye irritation.

**Acute Skin contact:** May cause an allergic skin reaction.

**Acute ingestion:** Ingestion is likely to be harmful or have adverse effects.

**Chronic Symptoms:** Exposure may produce an allergic reaction.

**4.3 Indication of immediate medical attention and special treatment needed:** If exposed or concerned, get medical advice and attention.

## Section 5. Fire Fighting Measures

### 5.1 Extinguishing media

**Suitable extinguishing media:** Use dry chemical, water spray or other extinguishing media appropriate for surrounding fire.

**Unsuitable extinguishing media:** Do not use heavy water stream. Use of heavy stream of water may spread fire.

**5.2 Special hazards arising from the substance or mixture:** Not considered flammable but may burn at high temperatures. Hazardous reactions will not occur under normal conditions. Product is not explosive. DO NOT weld, burn or cut empty containers

**5.3 Advice for firefighters:** Exercise caution when fighting any chemical fire. Fire fighters should wear self-contained breathing apparatus to protect against inhalation of cyanates vapors and other decomposition/combustion products. Do not release runoff from fire control methods to sewers or waterways. Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face piece operated in pressure-demand or positive-pressure mode

## Section 6. Accidental Release Measures

### 6.1 Personal precautions, protective equipment and emergency procedures:

**For non-emergency personnel:** Use appropriate personal protection equipment (PPE). Evacuate unnecessary personnel.

**For emergency responders:** Wear approved respirator. Wear proper personal protective equipment. Stop leak if safe to do so. Eliminate ignition sources. Ventilate area.

**6.2 Environmental precautions:** Use appropriate containment to avoid environmental contamination. Avoid release to the environment.

**6.3. Methods and materials for containment and cleaning up:** Clear up spills immediately and dispose of waste safely. Spills should be contained with mechanical barriers. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

### 6.4 Reference to other sections:

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See Section 1 for emergency contact information. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

### Section 7. Handling and Storage

**7.1 Precautions for safe handling:** Keep away from sources of ignition - No smoking. Keep away from heat & open flame. Avoid all eye & skin contact & do not breathe vapour or mist. Always wash hands after handling. Do not eat, drink or smoke when using this product. Ensure there is adequate ventilation. Wear recommended personal protective equipment. Take precautionary measures against static discharge. Use grounded electrical/mechanical equipment. Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

**7.2 Conditions for safe storage including any incompatibilities:** Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

**7.3 Specific end use(s):** No further relevant information available. Isocyanates react slowly with water, alcohols, amines, acids and bases.

### Section 8. Exposure Controls / Personal Protection

#### 8.1 Control parameters

##### Exposure limits:

Component	Exposure limits		
	ACGIH	NIOSH	OSHA-PELs
Dicyclohexylmethane-4,4'-di-isocyanate (5124-30-1)	0.005 ppm (TWA)	0.010 ppm Ceiling	0.010 ppm Ceiling
Fiberglass (65997-17-3)	10 mg/m <sup>3</sup> - 8 hr (Total dust) 3 mg/m <sup>3</sup> - 8 hr (Respirable particulates) 1 fibre / ml (respirable fibre)	N/A	15 mg/m <sup>3</sup> - 8 hr (Total dust) 5 mg/m <sup>3</sup> - 8 hr (Respirable particulates)

#### 8.2 Exposure controls

**8.2.1 Appropriate engineering controls:** Ensure adequate ventilation, especially in confined areas. Emergency eye wash fountains and safety showers should be available in immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.

##### 8.2.2 Personal protective equipment

**Respiratory Protection:** Follow OSHA respirator regulation 29 CFR 1910.134 and European Standards EN 141, 143 and 371; wear a MSHA/NIOSH or European Standards EN 141, 143 and 371 approved respirators when needed.

**Eye / Face Protection:** Wear appropriate safety glasses with side shields or chemical goggles as described by OSHA's eye and face protection regulations in 29CFR 1910.133 or European Standard EN166.

**Skin Protection:** The glove material has to be impermeable and resistant to the product. Cover as much of the exposed area as possible, with protective clothing.

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

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### Section 9. Physical and Chemical Properties

a) Appearance (color):	Fiberglass cloth coated with viscous white resin
b) Odour:	Aromatic
c) Odour threshold:	No data available
d) pH:	No data available
e) Melting point range:	No data available
f) Initial Boiling point/boiling range:	No data available
g) Flash Point:	>302 °F (> 150 °C) (Estimated method)
h) Evaporation rate (ether = 1):	Slower
i) Flammability (solid, gas):	No data available
j) Upper/lower flammability or explosive limits:	No data available
k) Vapour pressure:	Not applicable
l) Vapour density (air = 1):	Greater
m) Relative density:	Not applicable
n) Specific Gravity:	2.5 (glass); 1.08 (resin)
o) Solubility in water:	Soluble to slightly soluble
p) Partition coefficient (n-octanol/water):	No data available
q) Auto-ignition temperature:	No data available
r) Decomposition temperature:	No data available
s) Viscosity:	No data available

### Section 10. Stability and Reactivity

**10.1 Reactivity:** Hazardous reactions will not occur under normal conditions.

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

**10.3 Possibility of hazardous reactions:** Hazardous polymerization will not occur.

**10.4 Conditions to avoid:** Contact with moisture and other materials that react with isocyanate. Temperature above maximum storage temperatures.

**10.5 Incompatible materials:** Contact with water, alcohol's, amines and strong bases.

**10.6 Hazardous decomposition products:** By high heat and fire, carbon monoxide, carbon dioxide, oxides of nitrogen, traces of IICN isocyanate and solvent vapors.

### Section 11. Toxicological Information

#### 11.1 Information on toxicological effects:

**Skin Corrosion/Irritation:** May be irritating to skin

**Serious Eye Damage/Irritation:** May be irritating to eyes

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**Respiratory or Skin Sensitization:** May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

**Chronic Effects:** No chronic effects have been identified.

**Mutagenicity:** Not classified.

**Carcinogenicity:** Not classified.

**Tetratogenicity:** Not classified.

**Specific Target Organ Toxicity - single exposure (STOT-se):** Not classified.

**Specific Target Organ Toxicity - repeated exposure (STOT-re):** Not classified.

**Delayed and immediate effects and also chronic effects from short and long-term exposure:** No delayed effects have been identified.

### Numerical measures of toxicity:

Ingredient	Oral LD50	Dermal LD50	Inhalation LC50
Poly {[oxy(methyl-1,2-ethanediyl)}, .alpha.-hydro-polymer with 1,1'-methylenebis {4-isocyanatocyclohexane (9042-82-4)}	>5000 mg/kg (rat)	> 2,000 mg/kg (rat)	>200 mg/l (1hr) (rat)
Dicyclohexylmethane-4,4'-di-isocyanate (5124-30-1)	18,2000 mg/kg (rat)	> 7,000 mg/kg (rat)	0.33 mg/l (4 hr) (rat)
Glycerol poly(oxyethylene) poly(oxypropylene) ether (9082-00-2)	>10 g/kg (rat)	N/A	N/A

## Section 12. Ecological Information

### 12.1 Toxicity:

#### Ecotoxicity data:

Ingredient	Toxicity to Algae (EC 50)	Toxicity to Fish (LC50)	Toxicity to Daphnia (EC 50)	Toxicity to Bacteria (EC 50)
Dicyclohexylmethane-4,4'-di-isocyanate (5124-30-1)	>5 mg/l (Exposure time: 72 h: <i>Desmodesmus subspicatus</i> [static])	>8.1 mg/l (Exposure time: 96 h: <i>Brachydanio rerio</i> [flow-through])	>8.3 mg/l (Exposure time: 48 h: <i>Daphnia magna</i> [Static])	191 mg/l (Exposure time: 3 h: <i>Pseudomonas putida</i> [static])

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

**12.3 Bioaccumulative potential:** No information available.

**12.4 Mobility in soil:** No information available.

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

**12.6 Other adverse effects:** Avoid release to the environment.

## Section 13. Disposal Considerations



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### 13.1 Waste treatment methods

**13.1.1 Product / Packaging disposal:** Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.

**13.1.2 Waste treatment-relevant information:** Disposal of this product solutions and by-products should at all times comply with the requirements of the environmental protection and waste disposal legislation and any regional local authority requirements.

**13.1.3 Sewage disposal-relevant information:** For disposal within the European Community, waste codes according to Directive 2008/98/EC should be assigned by the user based on the application for which the product was used.

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

### Section 14. Transport Information

Not regulated as a DOT hazardous material.

**UN Number (DOT):** Not Applicable

**UN Proper Shipping Name:** Liquid resin. Non-regulated

**Transport Hazard Class:** Not Applicable

**Packing Group:** Not Applicable

**Environmental Hazard:** No

**Freight class:** 55

### Section 15. Regulatory Information

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

**TSCA Status:** All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

**15.2 Chemical safety assessment:** No data available

### Section 16. Other Information

#### Key Legend Information:

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

N/A – Not Applicable

ACGIH – American Conference of Governmental Industrial Hygienists

OSHA – Occupational Safety and Health Administration

PEL – Permissible Exposure Limit

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



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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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