



### Section 1. Product and Company Identification

**Product Name:** SynthoGlass SPF  
**Supplier:** CSNRI | 621 Lockhaven Drive. Houston, TX 77073 | +1 281.590.8491  
**Emergency Phone Number:** 800.424.9300 (CHEMTREC)  
 +1 703.741.5970 (Outside the US)  
**Product Description:** Fiberglass cloth impregnated with water activated resin.  
**Product Use:** Intended to repair pipes or for corrosion control.  
**Chemical Name or Synonym:** N/A

### Section 2. Hazards Identification

#### Classification of the substance or mixture

Skin corrosion/irritation – Category 2  
 Skin sensitization - Category 1  
 Eye damage/eye irritation – Category 2A  
 Sensitization / respiratory – Category 1  
 Acute toxicity/inhalation – Category 3  
 Specific Target Organ Toxicity (SE) – Category 3  
 Hazardous to the aquatic environment (Chronic hazard) – Category 3

#### Label Elements:



#### Hazard Statements:

H315 Causes skin irritation  
 H317 May cause an allergic skin reaction.  
 H319 Causes serious eye irritation  
 H334 May cause allergy or asthma or breathing difficulties if inhaled  
 H335 May cause respiratory irritation  
 H412 Harmful to aquatic life with long lasting effects

**Signal Word:** Danger

#### Precautionary Statement:

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

### Section 3. Composition/ Information on Ingredients



Component	CAS #	% Composition
Fiberglass cloth (textile grade)	65997-17-3	65 – 70
Poly {[oxy(methyl-1,2-ethanediyl)},alpha.-hydro-polymer with 1,1'-methylenebis {4-isocyanatocyclohexane	9042-82-4	15 – 20
Glycerol poly(oxyethylene) poly(oxypropylene) ether	9082-00-2	13 – 18
DL-Aspartic acid, N,N'-(methylenedi-4,1-cyclohexanediyl)bis, tetraethyl ester	136210-30-5	< 2
Dicyclohexylmethane-4,4'-di isocyanate	5124-30-1	< 0.1

#### Section 4. First Aid Measures

##### **First Aid Measures for Accidental:**

**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.

**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.

##### **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.

##### **Indication of immediate medical attention and special treatment needed:**

If exposed or concerned, get medical advice and attention.

#### Section 5. Fire Fighting Measures

**Extinguishing Media:** Use dry chemical, water spray or other extinguishing media appropriate for surrounding fire. Do not use heavy water stream. Use of heavy stream of water may spread fire.

**Special Hazards Arising From 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

##### **Advice for firefighters:**

**Special Fire Fighting Procedures:** Exercise caution when fighting any chemical fire. Do not release runoff from fire control methods to sewers or waterways. Because fire may produce toxic thermal decomposition products.

**Special Protective Equipment for Fire-fighters:** Fire fighters should wear self-contained breathing apparatus to protect against inhalation of cyanates vapors and other decomposition/combustion 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

**Personal Precautions, Protective Equipment and Emergency Procedures:** Use appropriate personal protection equipment (PPE). Evacuate unnecessary personnel. Wear approved respirator. Wear proper personal protective equipment. Stop leak if safe to do so. Eliminate ignition sources. Ventilate area. Use appropriate containment to avoid environmental contamination. Avoid release to the environment.

**Cleanup and Disposal of Spill:** 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.

### Section 7. Handling and Storage

**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.

**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. Isocyanates react slowly with water, alcohols, amines, acids and bases.

### Section 8. Exposure Controls / Personal Protection

Component	Exposure limits		
	ACGIH	NIOSH	OSHA-PELs
Dicyclohexylmethane-4,4'-diisocyanate (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)

**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.

**Personal Protective Equipment:**

**Respiratory Protection:** In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

**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.

### Section 9. Physical and Chemical Properties



## SYNTHOGLASS SPF

<b>Physical Appearance:</b>	Fiberglass cloth coated with viscous white resin.
<b>Odor:</b>	Aromatic
<b>Odor Threshold:</b>	No data available
<b>pH:</b>	No data available
<b>Melting Point Range:</b>	No data available
<b>Boiling point:</b>	No data available
<b>Flash Point:</b>	>302 °F (> 150 °C) (Estimated method)
<b>Evaporation rate (ether=1):</b>	Slower
<b>Flammability Limits (vol/vol%):</b>	No data available
<b>Vapor Pressure:</b>	No data available
<b>Vapor Density (air=1):</b>	Greater
<b>Relative Density:</b>	No data available
<b>Specific Gravity:</b>	2.5 (glass); 1.08 (resin)
<b>Water Solubility:</b>	Soluble to slightly soluble
<b>Partition coefficient (n-octanol/water):</b>	No data available
<b>Auto-ignition Temperature:</b>	No data available
<b>Decomposition Temperature:</b>	No data available
<b>Viscosity:</b>	No data available

#### Section 10. Stability and Reactivity

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

**Chemical Stability:** Stable under standard use and storage conditions.

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

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

**Incompatible Materials / Chemicals:** Contact with water, alcohol's, amines and strong bases

**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

**Information on toxicological effects:**

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

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

**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.

**Teratogenicity:** 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)	18,200 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

**Ecotoxicity:** No data available

**Persistence and degradability:** No data available

**Bioaccumulative potential:** No data available

**Mobility in soil:** No data available

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

### Section 13. Disposal Considerations

**Waste treatment methods:** Dispose of waste material in accordance with all local, regional, national, & international regulations.

**Uncleaned packaging:** Dispose of in accordance to all local, state, and/or national legislation. Do not dispose of waste into sewer.

### Section 14. Transport Information

#### DOT

**UN number:** Not regulated

**UN proper shipping name:** N/A

**Transport hazard class:** N/A

**Packing group:** N/A

**Environmental hazard:** No

### Section 15. Regulatory Information

#### 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.

### Section 16. Other Information

#### Key Legend Information:

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

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