

# SAFETY DATA SHEET

TO COMPLY WITH OSHA HAZARD COMMUNICATION STANDARD 29 CFR.1910.1200 & THE GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS

#### 1. PRODUCT AND COMPANY IDENTIFICATION

#### 1.1 Product Identifier

**Product Form:** 

Substance Name: PRO GLAS EPOXY HARDENER 2:1 MEDIUM

Product Code(s): 100220506, 100220507, 100220508, 100220509, 100220510, 100220511,

100220513, 100220515

Synonyms:

# 1.2 Details of the Supplier of the Safety Data Sheet

Fiberlay Inc. 1468 Northgate Blvd Sarasota, FL 34234 T 206-782-0660 F 888-782-0662 www.Fiberlay.com

1.3 Emergency Telephone Number

Emergency Number: CHEMTREC: Domestic - 800-424-9300

# 2. HAZARDS IDENTIFICATION

Physical hazards Not classified.

Health hazards Acute toxicity, oral Category 4

Acute toxicity, dermal

Skin corrosion/irritation

Serious eye damage/eye irritation

Sensitization, skin

Germ cell mutagenicity

Reproductive toxicity

Category 1

Category 1

Category 2

Category 1B

Specific target organ toxicity, repeated Category 2 (liver, kidney)

exposure

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Harmful if swallowed. Toxic in contact with skin. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Suspected of causing genetic defects. May damage fertility or the unborn child by inhalation. May cause damage to organs (liver,

kidney) through prolonged or repeated exposure.

Precautionary statement

Hazard statement

Prevention

Response

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist or vapor. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling. Contaminated work clothing must not be

allowed out of the workplace.

If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. If skin irritation or rash occurs: Get medical advice/attention. Take off immediately all contaminated clothing and wash it

before reuse

Storage Store locked up.

Dispose of contents/container in accordance with local/regional/national/interlocal/regional/national/international **regulations**.

Hazard(s) not otherwise classified (HNOC)

**Disposal** 

None known.

Supplemental information None.

#### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Cas No	% By Weight
Aminoethylpiperazine Compound	Proprietary	60-100
Nonylphenol	Proprietary	60-100
Polyoxypropylenediamine	Proprietary	60-100
Phenol	Proprietary	0.1-1.0

### **Composition comments**

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. The manufacturer has claimed one or more hazardous ingredients as trade secret under the

OSHA Hazard Communication Standard. The hazards of this (these)

ingredient(s) are given on

this SDS.

# 4. FIRST AID MEASURES

**Inhalation** Move to fresh air. Oxygen or artificial respiration if needed. Call a physician if

symptoms develop or persist.

**Skin contact** Remove contaminated clothing immediately and wash skin with soap and water.

Call a physician or poison control center immediately. Chemical burns must be

treated by a physician. Wash contaminated clothing before reuse.

**Eye contact** Immediately flush eyes with plenty of water for at least 15 minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. Call a physician or

poison control center immediately.

**Ingestion** Call a physician or poison control center immediately. Rinse mouth. Do not

induce vomiting. If vomiting occurs, keep head low so that stomach content

doesn't get into the lungs.

Symptoms/effects, acute and delayed

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Prolonged exposure

may cause chronic effects.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed

**General information** 

Take off immediately all contaminated clothing. IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

#### 5. FIRE FIGHTING MEASURES

Suitable extinguishing media

Powder. Alcohol resistant foam. Carbon dioxide (CO2).

Unsuitable extinguishing media

Use of water may result in the formation of very toxic aqueous solution.

Specific hazards arising from the chemical

Closed containers may rupture violently if heated. Some curing agents when mixed with epoxy resins in large masses can produce vigorous exothermic reactions with considerable heat which may char the reactants, and released fumes and vapors from the thermal decomposition. During fire, hazardous combustion products are released that may include: Carbon oxides (COx). Nitrogen Oxides (NOx). Aldehydes. Ammonia.

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire-fighting equipment/instructions

Move containers from fire area if you can do so without risk.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during cleanup. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

# Methods and materials for containment and cleaning up

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

# **Environmental precautions**

Avoid discharge into drains, water courses or onto the ground.

## 7. HANDLING AND STORAGE

# Precautions for safe EMIII

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Provide adequate ventilation. Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Pregnant or breastfeeding women must not handle this product. Do not taste or swallow. When using, do not eat, drink or smoke. Should be handled in closed systems, if possible. Wash hands thoroughly after handling. Wear appropriate personal protective equipment. Wash contaminated clothing before reuse. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store locked up. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value
Phenol (CAS Proprietary)	PEL	19 mg/m3
		5 ppm

#### **US. ACGIH Threshold Limit Values**

Components	Туре	Value	
Phenol (CAS Proprietary)	TWA	5 ppm	

**US. NIOSH: Pocket Guide to Chemical Hazards** 

Components	Туре	Value	
Phenol (CAS Proprietary)	Ceiling	60 mg/m3	
, , , , , , , , , , , , , , , , , , , ,	-	15.6 ppm	
	TWA	19 mg/m3	
		5 ppm	

# **Biological limit values**

# **ACGIH Biological Exposure Indices**

Components	Value	Determinant	Specimen	Sampling Time
Phenol (CAS				
Proprietary)	250 mg/g	Phenol with	Creatinine	*
		hydrolysis	in urine	

<sup>\* -</sup> For sampling details, please see the source document.

# **Exposure guidelines**

**US - California OELs: Skin designation** 

Phenol (CAS Proprietary) Can be absorbed through the skin.

US - Minnesota Haz Subs: Skin designation applies

Phenol (CAS Proprietary) Skin designation applies.

**US - Tennessee OELs: Skin designation** 

Phenol (CAS Proprietary)

Can be absorbed through the skin.

# US ACGIH Threshold Limit Values: Skin designation

Phenol (CAS Proprietary)

Can be absorbed through the skin.

**US. NIOSH: Pocket Guide to Chemical Hazards** 

Phenol (CAS Proprietary)

Can be absorbed through the skin.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Phenol (CAS Proprietary)

Can be absorbed through the skin.

# Appropriate engineering

controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

#### Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety goggles and a face shield.

**Skin protection** Wear appropriate chemical resistant gloves. Suitable gloves can be

**Hand protection** recommended by the glove supplier.

**Skin protection** Wear appropriate chemical resistant clothing. Use of an impervious apron is

recommended.

**Respiratory protection**No special requirements under ordinary conditions of use and with adequate

ventilation. In case of insufficient ventilation, wear suitable respiratory

Other

equipment. Chemical respirator with organic vapor cartridge and full face piece

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not

be allowed out of the workplace.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** 

Physical state Liquid. **Form** Clear liquid. Color Clear. Odor Slight odor. Odor threshold Not available. pН Not available. Melting point/freezing point Not available. Initial boiling point and boiling 399.2 °F (204 °C)

range

Flash point Not available.

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower Not available.

(%)

Flammability limit - upper Not available.

(%)

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure Not available.

Vapor density Not available.

Relative density 0.97 (H20=1)

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.

Other information

**Explosive properties**Not explosive. **Oxidizing properties**Not oxidizing.

# 10. STABILITY AND REACTIVITY

**Reactivity** The product is stable and non-reactive under normal conditions of use, storage and

transport.

**Chemical stability** Material is stable under normal conditions.

reactions

Possibility of hazardous Some curing agents, if mixed with the resin in sufficiently large quantities, can cause exothermic reactions and runaway polymerization, yielding fumes which

vary widely in composition and toxicity. Do not breathe fumes.

Conditions to avoid Contact with incompatible materials.

Incompatible materials Alkaline metals. Peroxides. Phenols. Strong acids. Strong oxidizers. Amines.

**Hazardous** decomposition products

No hazardous decomposition products are known.

# 11. TOXICOLOGICAL INFORMATION

# Information on likely routes of exposure

Inhalation May cause damage to organs through prolonged or repeated exposure by

inhalation. May cause irritation to the respiratory system.

Skin contact Toxic in contact with skin. Causes severe skin burns. May cause an allergic

skin reaction.

Eye contact Causes serious eye damage.

Ingestion Causes digestive tract burns. Harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

#### Information on toxicological effects

**Acute toxicity** Toxic in contact with skin. Harmful if swallowed. May cause an allergic skin reaction.

Components	Species	Test Results
Aminoethylpiperazine Compound	(CAS Proprietary)	
Acute		
Dermal		
LD50	Rabbit	880 mg/kg
Phenol (CAS Proprietary)		
Acute		
Dermal		
LD50	Rabbit	850 mg/kg, Hours
Oral		
LD50	Rat	317 mg/kg
Skin corrosion/irritation	Causes severe skin burns and eye damage	

Serious eye damage/eye

irritation

Causes serious eye damage.

Respiratory or skin sensitization

Not a respiratory sensitizer.

Respiratory sensitization

**Skin sensitization** May cause an allergic skin reaction.

**Germ cell mutagenicity** Suspected of causing genetic defects.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or

OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity

Phenol (CAS Proprietary) 3 Not classifiable as to carcinogenicity to humans.

**NTP Report on Carcinogens** 

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

**Reproductive toxicity** May damage fertility or the unborn child.

Specific target organ toxicity - Not classified.

single exposure

Specific target organ toxicity - May cause damage to organs through prolonged or repeated exposure.

repeated exposure

**Aspiration hazard** Not an aspiration hazard.

Chronic effects DD = M May cause damage to organs through prolonged or repeated exposure.

# 12. ECOLOGICAL INFORMATION

**Ecotoxicity** Expected to be very toxic to aquatic organisms. May cause long-term adverse effects in

the environment.

Components		Species	Test Results
Aminoethylpiperazine	Compound		
Aquatic			
Fish	LC50	Fathead minnow (Pimephales promelas)	1950 - 2460 mg/l, 96 hours
Phenol			
Aquatic			
Crustacea	EC50	Water flea (Daphnia obtusa)	4.7 - 6.4 mg/l, 48 hours
Fish	LC50	Rainbow trout, Donaldson trout (Oncorhynchus mykiss)	7.5 - 14 mg/l, 96 hours
Polyoxypropylenediar	nine		
Aquatic			
Chronic			
Algae	NOEC	Algae	0.32 mg/l, 72 hours

Persistence and degradability No data is available on the degradability of this product.

# **Bioaccumulative potential**

Partition coefficient n-octanol / water (log Kow)

Nonylphenol 5.71 Phenol 1.46

Mobility in soil No data available.

Other adverse affects No other adverse environmental effects (e.g. ozone depletion, photochemical

ozone creation potential, endocrine disruption, global warming potential) are

expected from this component

# 13. DISPOSAL CONSIDERATIONS

**Disposal instructions**Collect and reclaim or dispose in sealed containers at licensed waste

disposal site. Dispose of contents/container in accordance with

local/regional/national/international regulations.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the

producer and the waste disposal company.

Waste from residues /

unused products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container

must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings

even after container is emptied. Empty containers should be taken to an

approved waste handling site for recycling or disposal.

# 14. TRANSPORT INFORMATION

DOT

UN number UN2922

UN proper shipping name Corrosive liquids, toxic, n.o.s. (Aminoethylpiperazine Compound)

Transport hazard class(es)

Class

Subsidiary risk 6.1(PGI, II)
Label(s) 8, 6.1
Packing group II

**Environmental hazards** 

Marine pollutant Yes

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Special provisions B3, IB2, T7, TP2

Packaging exceptions 154
Packaging non bulk 202
Packaging bulk 243

IATA

UN number UN2922

UN proper shipping name Corrosive liquids, toxic, n.o.s. (Aminoethylpiperazine Compound)

Transport hazard class(es)

Class 8

Subsidiary risk 6.1(PGI, II)

Label(s) 8, 6.1
Packing group II
Environmental hazards Yes

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

**IMDG** 

UN number UN2922

UN proper shipping name Corrosive liquids, toxic, n.o.s. (Aminoethylpiperazine Compound)

Transport hazard class(es)

Class

Subsidiary risk 6.1(PGI, II)
Label(s) 8, 6.1

Packing group II

**Environmental hazards** 

Marine pollutant Yes

EmS Not available.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Not established.

Annex II of MARPOL 73/78 and

the IBC Code

#### 15. REGULATORY INFORMATION

**US federal regulations**This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Nonylphenol (CAS Proprietary)

1.0 % One-Time Export Notification only.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

Phenol (CAS Proprietary)

SIN SISIEM

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

**Chemical name** Reportable Threshold Threshold **Threshold CAS** number quantity planning quantity planning quantity, planning quantity, lower value (pounds) (pounds) upper value (pounds) (pounds)

Phenol Proprietary 1000 500 10000

SARA 311/312 Hazardous Yes

chemical

SARA 313 (TRI reporting)

Chemical nameCAS number% by wt.NonylphenolProprietary60-100

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Phenol (CAS Proprietary)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

**Safe Drinking Water Act** 

Not regulated.

(SDWA)

#### **US** state regulations

#### US. Massachusetts RTK - Substance List

Aminoethylpiperazine Compound (CAS

Proprietary) Nonylphenol (CAS

Proprietary)

Phenol (CAS Proprietary)

# **US. New Jersey Worker and Community Right-to-Know Act**

Aminoethylpiperazine Compound (CAS

Proprietary) Phenol (CAS Proprietary)

#### US. Pennsylvania Worker and Community Right-to-Know Law

Aminoethylpiperazine Compound (CAS

Proprietary) Nonylphenol (CAS

Proprietary)

Phenol (CAS Proprietary)

# **US. Rhode Island RTK**

Phenol (CAS Proprietary)

#### **US. California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories		
Country(s) or region Australia	Inventory name  On inventory (yet Australian Inventory of Chemical Substances (AICS)	s/no)* Yes
Canada	Domestic Substances List (DSL)	Yes
Canada China	Non-Domestic Substances List (NDSL) Inventory of Existing Chemical Substances in China (IECSC)	No Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
*A "Yes" indicates this production	co Toxic Substances Control Act (TSCA) Inventory ct complies with the inventory requirements administered by the governing country(s). nore components of the product are not listed or exempt from listing on the inventory administered by	Yes
the governing country(s).		

# 16. OTHER INFORMATION

Proglas believes the law requires us to inform you that detectable amounts of any of the listed chemicals might be present in Proglas products. Based on a review of the list, Proglas products, like all synthetic and naturally occurring chemical substances, may conceivably contain trace contaminants of some of the listed substances. While not necessarily added to our products as ingredients, some of the listed chemicals may be present in the raw materials as received from suppliers over which we have no control.

"Warning: This product may contain trace amounts of some chemicals considered by the State of California to be carcinogens or reproductive Toxicants."

Preparation Date: 1-5-2019
Prepared by: Kevin Aber

Comments: This Safety Data Sheet was prepared using information provided by Proglas

Information in this SDS is from available published sources and is believed to be accurate. No warranty, express or implied, is made and Proglas assumes no liability resulting from the use of this SDS. The user must determine suitability of this information for his application.

