



# 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

Substance Name: PROGLAS EPOXY HARDENER 1200 2:1 FAST  
Product Code(s): 100220606, 100220607, 100220608, 100220609, 100220610, 100220613, 100220615

Recommended Use: Epoxy glue

### 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](http://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	Category 4
	Skin corrosion/irritation	Category 1
	Serious eye damage/eye irritation	Category 1
	Sensitization, skin	Category 1
	Reproductive toxicity (fertility, the unborn child)	Category 2

OSHA defined hazards: Not classified

Label elements



Signal word: Danger

Hazard statement: Harmful if swallowed. Harmful in contact with skin. Fatal if inhaled. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Suspected of damaging fertility of the unborn child

Precautionary statement

**Prevention:** 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.  
Wash thoroughly after handling.  
Wear protective gloves/protective clothing/eye protection/face protection.  
Contaminated work clothing must not be allowed out of the workplace.

**Response:** If swallowed: Rinse mouth. Do NOT induce vomiting.  
If on skin (or hair): Take off immediately all contaminated clothing and wash before reuse.  
Rinse skin with water/shower.  
If skin irritation or rash occurs: Get medical advice/attention.  
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.

**Storage:** Store locked up.

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

**Hazard(s) not otherwise classified (HNOC)** None known.

**Supplemental information:** None

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

#### Mixtures:

CHEMICAL	CAS NO.	%
N-Aminoethylpiperazine	Proprietary	40-60
Nonylphenol	Proprietary	40-60

**Composition comments** All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

The chemical identity of some or all components present is confidential business information (trade secret), and is being withheld as permitted by 29 CFR 1910.1200(i).

### 4. FIRST AID MEASURES

**Inhalation** Move to fresh air. For breathing difficulties, oxygen may be necessary. 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.

**Most important 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. May cause allergic skin reaction.

**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**

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. Wash contaminated clothing before reuse.

**5. FIRE FIGHTING MEASURES****Suitable extinguishing media**

Alcohol resistant foam. Powder. Carbon dioxide (CO<sub>2</sub>).

**Unsuitable extinguishing media**

Do not use water jet as an extinguisher, as this will spread the fire.

**Specific hazards arising from the chemical**

Sealed containers may rupture when heated. During fire, hazardous combustion products are released that may include: Ammonia. Nitrogen Oxides (NO<sub>x</sub>). Carbon monoxide. Toxic fumes. 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.

**protective equipment and precautions for firefighters**

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

**Firefighting 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.

**General fire hazards**

No unusual fire or explosion hazards noted.

**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 clean-up. 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**

This product is miscible in water.

**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 handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Pregnant or breastfeeding women must not handle this product. Provide adequate ventilation. Should be handled in closed systems, if possible. Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Do not taste or swallow. When using, do not eat, drink or smoke. 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

No exposure limits noted for ingredient(s).

### Biological limit values

No biological exposure limits noted for the ingredient(s).

### 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 / Hand protection:** Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.

**Skin Other:** Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended

**Respiratory protection:** No protection is ordinarily required with adequate ventilation. In case of inadequate ventilation or risk of inhalation of vapors, use suitable respiratory 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	Liquid
Color	Light yellow
Odor	Slight fishy
Odor threshold pH	Not available
pH	Alkaline
Melting point/freezing point	Not available.
Initial boiling point and boiling range	392 °F (200 °C)
Flash point	212°F 100°C)
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	Not available
Solubility (water)	Slightly Soluble in water
Partition coefficient (n-octanol/water)	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not 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. Please read and follow all instructions.

**Possibility of hazardous reactions:** 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:** Avoid temperatures exceeding the flash point. Contact with incompatible materials.

**Incompatible materials:** Strong oxidizing agents. Amines. Strong acids. Alkaline metals. Peroxides. Phenols.

**Hazardous decomposition products:** No hazardous decomposition products are known.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

**Inhalation** May cause irritation to the respiratory system.

**Skin contact** Causes severe skin burns. Harmful in contact with skin. 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. May cause respiratory irritation. Coughing. May cause an allergic skin reaction.

**Information on toxicological effects Information on toxicological effects**

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

Components	Acute	Species	Test Results
N-Aminoethylpiperazine (CAS Proprietary)	Dermal LD50	Rabbit	800 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**

**Respiratory sensitization:** Not a respiratory sensitizer.

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

**Germ cell mutagenicity:** No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

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

**IARC Monographs. Overall Evaluation of Carcinogenicity:** Not listed.

**NTP Report on Carcinogens:** Not listed.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):** Not regulated.

**Reproductive toxicity:** Suspected of damaging fertility. Suspected of damaging the unborn child.

**Specific target organ toxicity - single exposure:** Not classified

**Specific target organ toxicity - repeated exposure:** Not classified

**Aspiration hazard:** Not an aspiration hazard.

**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
N-Aminoethylpiperazine		

<b>Aquatic</b> Fish LC50	Flathead minnow ( <i>Pimephales promelas</i> )	1950 – 2460 mg/l, 96 hours
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\* Estimates for product may be based on additional component data not shown.

**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

**Mobility in soil:** No data available.

**Other adverse effects:** None known

**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** UN1760  
**UN proper shipping name** Corrosive liquids, n.o.s. (N-Aminoethylpiperazine; Nonyl Phenol)  
**Transport hazard class(es)**  
**Class** 8  
**Subsidiary risk** -  
**Label(s)** 8  
**Packing group** III  
**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.  
**Special provisions** IB3, T7, TP1, TP28  
**Packaging exceptions** 154  
**Packaging non bulk** 203  
**Packaging bulk** 241

**IATA**

**UN number** UN1760  
**UN proper shipping name** Corrosive liquids, n.o.s. (N-Aminoethylpiperazine; Nonyl Phenol)  
**Transport Hazard Class(es)**  
**Class** 8  
**Subsidiary risk** -

**Label(s)** 8  
**Packing group** III  
**Environmental Hazards** Yes  
**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.

**IMDG**

**UN number** UN1760  
**UN proper shipping name** Corrosive liquids, n.o.s. (N-Aminoethylpiperazine; Nonyl Phenol)  
**Transport Hazard Class(es)**  
**Class** 8  
**Subsidiary risk** -  
**Label(s)** 8  
**Packing group** III  
**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 Annex II of MARPOL 73/78 and the IBC Code:** Not available

**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)**

Not listed.

**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:** Not listed.

**SARA 311/312 Hazardous chemical:** Yes

**SARA 313 (TRI reporting):**

Chemical name	CAS number	% by wt.
Nonylphenol	Proprietary	40-60

**Other federal regulations**



**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List** Not regulated.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)** Not regulated

**Safe Drinking Water Act (SDWA)** Not regulated.

## US state regulations

### US. Massachusetts RTK - Substance List

N-Aminoethylpiperazine (CAS Proprietary)  
Nonylphenol (CAS Proprietary)

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

N-Aminoethylpiperazine (CAS Proprietary)

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

N-Aminoethylpiperazine (CAS Proprietary)  
Nonylphenol (CAS Proprietary)

**US. Rhode Island RTK** Not regulated.

### 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	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
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
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. OTHER INFORMATION

**HMIS® ratings** 01  
Health: 3\*  
Flammability: 1  
Physical hazard: 0

**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.

**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.*

