

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: Liquid

Substance Name: PROGLAS EPOXY HARDENER 4:1 MEDIUM

Product Code(s): 100220206, 100220207, 100220208, 100220209, 100220210, 100220213,

100220215

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

.3 Emergency Telephone Number

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

2. HAZARDS IDENTIFICATION

Physical hazards Not classified.

Health hazards Serious eye damage/eye irritation Category 1

Sensitization, skin Category 1

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement Causes serious eye damage. May cause an allergic skin reaction.

Precautionary statement

Prevention Avoid breathing mist or vapor. Contaminated work clothing must not be allowed out of

workplace. Wear eye protection/face protection. Wear protective gloves. Wash

thoroughly after

handling.

Response If on skin: Wash with plenty of water. If in eyes: Rinse cautiously with water for several

the

minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a

center/doctor. If skin irritation or rash occurs: Get medical advice/attention.

Storage Store away from incompatible materials.

Disposal Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information

None.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Mixtures

Chemical name	CAS number	%
Teta, reaction products with propylene oxide	Proprietary	>75
Triethylenetetramine	Proprietary	<25
Composition comments	All concentrations are in percent by weight unless ingredient is a gas. Gas	

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concentrations are in percent by volume.

4. FIRST AID MEASURES

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

symptoms develop or persist.

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

In case of eczema or other skin disorders: Seek medical attention and take along

these instructions.

Ingestion Rinse mouth. Get medical attention if symptoms occur.

Symptoms/effects, acute and

delayed

Severe eye irritation. Symptoms may include stinging, tearing, redness,

swelling, and blurred vision. Permanent eye damage including blindness could

result. May cause an allergic skin reaction. Dermatitis. Rash.

Indication of immediate medical attention and special treatment

needed

Provide general supportive measures and treat symptomatically. Keep victim

under observation. Symptoms may be delayed.

General information 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 (CO2).

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

Specific hazards arising from

the chemical

During fire, hazardous combustion products are released that may include: Carbon

oxides (COx). Nitrogen oxides (NOx). Ammonia.

Special protective equipment Self-contained breathing apparatus and full protective clothing must be worn in case and precautions for firefighters 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.

General fire hazardsNo 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. Avoid breathing 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

Use water spray to reduce vapors or divert vapor cloud drift.

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

Do not get this material in contact with eyes. Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Provide adequate ventilation. Wash hands thoroughly after handling. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Contains amines. Do not add sodium nitrite or other nitrosating agents which may form cancer causing nitrosamines. Keep away from heat, spark, open flames and other sources of ignition.

Conditions for safe storage, including any incompatibilities

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. Workplace Environmental Exposure Level (WEEL) Guides

Components	Туре	Value
Triethylenetetramine (CAS	TWA	6 mg/m3
Proprietary)		1 ppm

Biological limit valuesNo biological exposure limits noted for the ingredient(s).

Exposure guidelines

US WEEL Guides: Skin designation

Triethylenetetramine (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. Provide eyewash station.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles) and a face shield. Face shield is

recommended.

Skin protection Hand protection Wear appropriate chemical resistant gloves. Suitable gloves can be recommended

by the glove supplier

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

recommended.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards Wear appropriate thermal protective clothing, when

necessary.

General hygiene considerations 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 Amber. Odor Slight fishy. **Odor threshold** Not available. pН Not available. Melting point/freezing point Not available. Initial boiling point and boiling 392 °F (200 °C)

range

Flash point 347.0 °F (175.0 °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(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.

Possibility of hazardous CAUTION! N-Nitrosamines, many of which are known to be

diameter and the second

reactions

CAUTION! N-Nitrosamines, many of which are known to be potent carcinogens, may be formed when the product comes in contact with nitrous acid, nitrites or

atmospheres with high nitrous oxide concentrations.

Conditions to avoidContact with incompatible materials.

Incompatible materials Strong acids. Peroxides. Alcohols. Sodium hypochlorite. Mineral acid. Do not use sodium

nitrite or other nitrosating agents in product. Product slowly corrodes copper, aluminum, zinc and galvanized surfaces. Strong acids. Oxidizing agents. Phenols.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful.

Skin contact May cause an allergic skin reaction.

Eye contact Causes serious eye damage.

Ingestion Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause

an allergic skin reaction. Dermatitis. Rash.

Information on toxicological

effects

Acute toxicity May cause an allergic skin reaction.

Product Species Test Results

EX-430 4:1 Hardener (CAS Mixture)

AcuteDermal

LD50 Rabbit > 2000 mg/kg

Oral

LD50 Rat > 2000 mg/kg

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

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 mutagenicityNo 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

This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity - Not classified.

single exposure

Specific target organ toxicity - Not classified.

repeated exposure

Aspiration hazard Not an aspiration hazard.

Chronic effects Prolonged inhalation may be harmful.

12. ECOLOGICAL INFORMATION

Ecotoxicity This material has not been tested for environmental effects.

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

Bioaccumulative potential No data available.

Mobility in soil No data available.

Other adverse effects

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 instructionsCollect 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

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

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)

Not regulated.

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 - No

Fire

Hazard-No

Pressure

Hazard - No

Reactivity

Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312

Hazardous Yes

chemical

SARA 313 (TRI reporting)

Not regulated.

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

Not regulated.

(SDWA)

US state regulations

US. Massachusetts RTK - Substance List

Triethylenetetramine (CAS Proprietary)

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

Triethylenetetramine (CAS Proprietary)

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

Triethylenetetramine (CAS Proprietary)

US. Rhode Island RTK

Not regulated.

US. California Proposition 65

Prop65 WARNING: This product can expose you to chemicals including Propylene oxide which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov

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 DDEM	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)	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)	No
	Toxic Substances Control Act (TSCA) Inventory	Yes
	complies with the inventory requirements administered by the governing cour re components of the product are not listed or exempt from listing on the inve	

^{16.} OTHER INFORMATION

HMIS® ratings Health: 3

Flammability: 0 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

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