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 1300 EPOXY RESIN**
Product Code(s): **100120207. 100120208, 100120209, 100120210, 100120213, 100120215**

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

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H411.

GHS08 Health Hazard
Muta. 2: H341: Suspected of causing genetic defects

GHS09 Environment
Aquatic Chronic 2: H411: Toxic to aquatic life with long lasting effects

GHS07 Health Hazard
Skin Irritation 2: H315 Causes Skin Irritation
Eye Irritation 2: H319 Causes serious eye irritation
Skin Sensitivity 1: H317 May cause an allergic skin reaction

Classification according to Directive 67/548/EEC or Directive 1999/45/EC


Xn: Harmful
R68: Possible risk of irreversible effects


Xi: Irritant
R36/38: Irritating to eyes and skin


Xi: Sensitizing
R43: May cause sensitization by skin contact


N: Dangerous for the environment
R51/53: Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.

Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data. The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms


This pictogram only applicable for EU regulations. Not for use in the United States (OSHA GHS)


GHS07 GHS08 GHS09

Signal Word: Warning

Hazard-determining components of labelling:

Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700) 2,3-epoxypropyl o-tolyl ether

Hazard statements

The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation

H315: Causes skin irritation.

H319: Causes serious eye irritation.
H317: May cause an allergic skin reaction.
H341: Suspected of causing genetic defects.
H411: Toxic to aquatic life with long lasting effects.

Precautionary statements

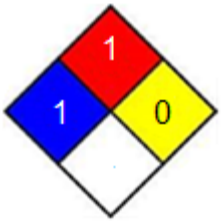
P281: Use personal protective equipment as required.
P264: Wash thoroughly after handling.
P261: Avoid breathing mist/vapors/spray.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333+P313: If skin irritation or rash occurs: Get medical advice/attention
P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

Additional information:
Contains epoxy constituents. May produce an allergic reaction.

Hazard description:
WHMIS-symbols:

D2B - Toxic material causing other toxic effects

NFPA ratings (scale 0 – 4)



Health = 1

Fire = 1

Reactivity = 0

HMIS – ratings (scale 0 – 4)

Health = *1

Fire =1

Reactivity = 0

* - Indicates a long term health hazard from repeated or prolonged exposures.

HMIS Long Term Health Hazard Substances
None of the ingredients is listed.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.
vPvB: Not applicable.

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Mixtures

Reaction Product	Identifier	Wt %
bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700) **Xi R36/38** **Xi R43** **N R51/53** **Aquatic Chronic 2, H411** **Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317**	**CAS: 25068-38-6** **NLP: 500-033-5** **Index number: 603-074-00-8**	**50-100%**
2,3-epoxypropyl o-tolyl ether **Xi R68** **Xi R38** **Xi 43** **N R51/53** **Muta. Cat.3** **Muta. 2, H341** **Aquatic Chronic 2, H411** **Skin Irrit. 2, H315; Skin Sens. 1, H317**	**CAS: 2210-79-9** **EINECS: 218-645-3** **Index number: 603-056-00-X**	**10-25%**

Additional information: For the wording of the listed risk phrases refer to section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
In case of unconsciousness place patient stably in side position for transportation.

After skin contact:

Immediately wash with water and soap and rinse thoroughly. Do not pull solidified product off the skin.
Immediately remove any clothing soiled by the product. If skin irritation continues, consult a doctor.

After eye contact:

Protect unharmed eye.
Remove contact lenses if worn, if possible.
Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.

After swallowing:

Rinse out mouth and then drink plenty of water.
Do not induce vomiting; call for medical help immediately

4.2 Most important symptoms and effects, both acute and delayed

Allergic reactions
Nausea
Dizziness
Irritant to skin and mucous membranes.
Irritant to eyes.

Hazards

Danger of impaired
breathing.
Danger of disturbed cardiac rhythm.

4.3 Indication of any immediate medical attention and special treatment needed

Treat skin and mucous membrane with antihistamine and corticoid preparations.
Medical supervision for at least 48 hours.
Monitor circulation, possible shock treatment.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing agents:

Use fire extinguishing methods suitable to surrounding conditions.

Unsuitable extinguishing agents:

Water with full jet

5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

5.3 Advice for firefighters · Protective equipment:

Wear self-contained respiratory protective device.
Wear fully protective suit.
Wear self-contained respiratory protective device.
Wear fully protective suit.

Additional information

Cool endangered receptacles with water spray.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use respiratory protective device against the effects of fumes/dust/aerosol.
Remove persons from danger area.
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation

6.2 Environmental precautions:

Do not allow to enter sewers/ surface or ground water.
Inform respective authorities in case of seepage into water course or sewage system.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.

Send for recovery or disposal in suitable receptacles.
Ensure adequate ventilation.

6.4 Reference to other sections

See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
Store in cool, dry place in tightly closed receptacles.

Information about fire - and explosion protection:

No special measures required.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles:

No special requirements

Information about storage in one common storage facility:

Store away from foodstuffs.
Store away from oxidizing agents.
Do not store together with acids.

Further information about storage conditions:

Store in cool, dry conditions in well-sealed receptacles.

7.3 Specific end use(s)

No further relevant information available.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Additional information about design of technical facilities:

No further data; see item 7.

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· **DNELs:**

No further relevant information available

PNECs:

No further relevant information available.

Additional information:

The lists valid during the making were used as basis.

8.2 Exposure controls

Personal protective equipment:

General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.
Keep away from foodstuffs, beverages and feed
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work. \
Do not inhale gases / fumes / aerosols.
Avoid contact with the eyes and skin.

Respiratory protection:

Not required under normal conditions of use.
Use suitable respiratory protective device when aerosol or mist is formed.
For spills, respiratory protection may be advisable.
NIOSH approved organic vapor respirator equipped with a dust/mist pre-filter should be used.

Protection of hands:

Protective gloves
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Material of gloves
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application

Penetration time of glove material
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:
Contact lenses should not be worn

Safety glasses

Goggles recommended during refilling

Goggles

Body protection: Protective work clothing

Limitation and supervision of exposure into the environment:

No further relevant information available

Risk management measures:

See Section 7 for additional information. No further relevant information available.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance

Form:	Liquid
Color:	Yellow tint

Odor:	Characteristic
Odor threshold:	Not determined
pH value at 20˚C	7
Change in condition:	
Melting point / Melting range:	Undetermined
Boiling point / Boiling range:	Undetermined
Flash point:	248˚F / 120˚C
Flammability (solid, gaseous)	Not applicable
Ignition temperature	Not determined
Decomposition temperature	Not determined
Self-igniting	Product is not self-igniting
Danger of explosion	Product does not present an explosion hazard
Explosion limits:	
Lower:	Not determined
Upper:	Not determined
Vapor pressure:	Not determined
Density at 20˚C:	1.13 g/cm3
Relative density:	Not determined
Vapor density:	Not determined
Evaporation rate:	Not determined
Solubility in / Miscibility with water:	Not miscible or difficult to mix
Partition coefficient (n-octanol/water):	Not determined
Viscosity:	
Dynamic at 20˚C	1000 mPas
Kinematic:	Not determined

9.2 Other information:

No further relevant information available

10. STABILITY AND REACTIVITY

10.1 Reactivity

Chemical stability

Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

Possibility of hazardous reactions:

Reacts with oxidizing agents.
Reacts with amines.
Exothermic polymerization.

Conditions to avoid:

No further relevant information available.

Incompatible materials:

No further relevant information available.

Hazardous decomposition products:

Carbon monoxide and carbon dioxide
Hydrogen chloride (HCl)

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity:

Primary irritant effect:

On the skin:
Irritant to skin and mucous membranes.

On the eye:
Irritating effect.

Sensitization:
Sensitization possible through skin contact.
Sensitizing effect through inhalation is possible by prolonged exposure.

Additional toxicological information:
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
Irritant Danger through skin adsorption.
Toxic and/or corrosive effects may be delayed up to 24 hours.

Sensitization:
Sensitization possible by skin contact.

Repeated dose toxicity:
May cause damage to organs through prolonged or repeated exposure.
Repeated exposures may result in skin and/or respiratory sensitivity

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):
Muta. 2

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Aquatic toxicity:
Toxic for aquatic organisms

12.2 Persistence and degradability:
The product is not easily, but potentially biodegradable.

12.3 Bioaccumulative potential:
No further relevant information available.

12.4 Mobility in soil:
No further relevant information available.

Ecotoxical effects:

Remark:
Toxic for fish

Additional ecological information:

General notes:
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.
Also poisonous for fish and plankton in water bodies.
Toxic for aquatic organisms
Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment cannot be excluded.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.
vPvB: Not applicable

12.6 Other adverse effects:
No further relevant information available.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods ·

Recommendation

Must not be disposed together with household garbage.
Do not allow product to reach sewage system.
Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.
Can be disposed of with household garbage after solidification following consultation with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

14. TRANSPORT INFORMATION

14.1 UN-Number

DOT	N/A
ADR, IMDG, IATA	UN3082

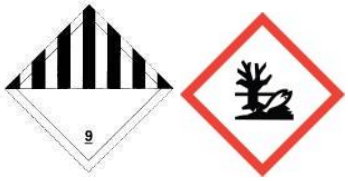
14.2 UN proper shipping name

DOT	N/A
ADR	3082 Environmentally Hazardous Substance, Liquid, N.O.S. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight □ 700), 2,3-epoxypropyl o-tolyl ether)
IMDG	Environmentally Hazardous Substance, Liquid, N.O.S. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight □ 700), 2,3- epoxypropyl o-tolyl ether), Marine Pollutant
IATA	Environmentally Hazardous Substance, Liquid, N.O.S. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight □ 700), 2,3- epoxypropyl o-tolyl ether)

14.3 Transport hazard class(es)

DOT
Class **N/A**

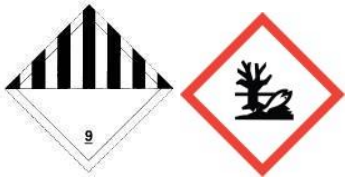
ADR



Class 9 (M6) Miscellaneous dangerous substances and articles.

Label 9

IMDG, IATA



Class 9 (M6) Miscellaneous dangerous substances and articles.
Label 9

14.4 Packing group

DOT N/A
ADR, IMDG, IATA III

14.5 Environmental hazards:

Marine pollutant: Yes Symbol: (fish & tree)
ADR Special marking: Symbol: (fish & tree)
IATA Special marking: Symbol: (fish & tree)

14.6 Special precautions for user: Warning: Miscellaneous dangerous substances and articles

Danger code (Kemler): 90
EMS Number: F-A,S-F

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

Transport/Additional information:

ADR
Limited quantities (LQ) 5L
Transport category **3**
Tunnel restriction code **E**

UN "Model Regulation": UN3082, Environmentally Hazardous Substance, Liquid, N.O.S. (reaction product: bisphenol-A- (epichlorhydrin) epoxy resin (number average molecular weight □ 700), 2,3-epoxypropyl o-tolyl ether), 9, III

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture · United States (USA)

SARA

Section 355 (extremely hazardous substances):
None of the ingredients is listed

Section 313 (Specific toxic chemical listings):
None of the ingredients is listed.

TSCA (Toxic Substances Control Act):

All ingredients are listed.

Proposition 65 (California):

Chemicals known to cause cancer:
None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for females:
None of the ingredients is listed

Chemicals known to cause reproductive toxicity for males:
None of the ingredients is listed.

Chemicals known to cause developmental toxicity:
None of the ingredients is listed.

Carcinogenic Categories

EPA (Environmental Protection Agency)
None of the ingredients is listed.

IARC (International Agency for Research on Cancer)
None of the ingredients is listed.

TLV (Threshold Limit Value established by ACGIH)
None of the ingredients is listed.

NIOSH-Ca (National Institute for Occupational Safety and Health)
None of the ingredients is listed.

OSHA-Ca (Occupational Safety & Health Administration)
None of the ingredients is listed.

Canada

Canadian Domestic Substances List (DSL)
All ingredients are listed.

Canadian Ingredient Disclosure list (limit 0.1%)
None of the ingredients is listed.

Canadian Ingredient Disclosure list (limit 1%)
None of the ingredients is listed

15.2 Chemical safety assessment:
A Chemical Safety Assessment has not been carried out.

16. OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H319: Causes serious eye irritation.
H341: Suspected of causing genetic defects.
H411: Toxic to aquatic life with long lasting effects.

R36/38: Irritating to eyes and skin.
R38: Irritating to skin.
R43: May cause sensitization by skin contact.
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R68: Possible risk of irreversible effects.

Abbreviations and Acronyms:
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
ACGIH: American Conference of Governmental Industrial Hygienists
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
WHMIS: Workplace Hazardous Materials Information System (Canada)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)

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: 1-3-2019
Prepared by: Kevin Aber
Comments: This Safety Data Sheet was prepared using information provided by Proglas

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