SAFETY DATA SHEET

EPOXY BOG HARDENER

Version: 1.0
Issued Date: 5/12/2016
Revision Date: 5/12/2016
Issued by: Alchemis Limited

1. IDENTIFICATION
GHS Product Identifier
Epoxy Bog Hardener, Epoxy Fairing Cream Hardener, Epoxy Patch Hardener

Product Code(s)
AEBOGH, AEBLFCH

Company Name
Alchemis Limited

Address
28C Andromeda Crescent, East Tamaki, Auckland 2013

Telephone/Fax Number
Telephone: +64 9 274 6652 Fax number: +64 9 274 6640

Emergency phone number
0800 734 607 (Ixom ERS - 24H)

E-mail Address
compliance@alchemis.co.nz

Recommended use of the chemical and restrictions on use
Industrial application

2. HAZARD IDENTIFICATION
GHS classification of the substance/mixture
Classified as Hazardous according to the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001, New Zealand.
Classified as Dangerous Goods for transport according to the New Zealand Standard NZS 5433:2007 Transport of Dangerous Goods on Land.

HSNO CLASSIFICATION	GHS HAZARD STATEMENTS
6.1E (oral)	H303 May be harmful if swallowed.
6.1E (dermal)	H313 May be harmful in contact with skin.
6.5B	H317 May cause an allergic skin reaction.
6.6B	H341 Suspected of causing genetic defects.
6.9B (repeated exposure)	H373 May cause damage to organs through prolonged or repeated exposure (oral/dermal)
8.2B	H314 Causes severe skin burns and eye damage.
8.3A	H318 Causes serious eye damage.
9.1A	H410 Very toxic to aquatic life with long lasting effects.
9.2C	H423 Harmful to the soil environment.
Signal Word:	DANGER

PREVENTION STATEMENTS	
P102	Keep out of reach of children.
P103	Read label before use.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe mist/vapours/spray.
P264	Wash thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.

P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
RESPONSE STATEMENTS	
P101	If medical advice is needed, have product container or label at hand.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P303 + P361 + P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P363	Wash contaminated clothing before reuse.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P304 + P340	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P310	Immediately call a POISON CENTER or doctor/physician.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor/physician.
P391	Collect spillage.
STORAGE STATEMENTS	
P405	Store locked up.
DISPOSAL STATEMENTS	
P501	Do not let this product enter the environment. Do not dispose of in waterways or sewers. Dispose of this material and its container as hazardous waste, via a licensed facility. See local council for disposal/recycling information.
GHS DIAMONDS	
	

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Name	CAS	Proportion - %w/w
Amine Cpds	Not available	10 - <30
Aromatic Alcohol	Not available	10 - <30
Nonyl Phenol	84852-15-3	10 - <30
Phenol	108-95-2	1 - <5
Mannich Base	Not available	1 - <5
Epoxy Resin	Not available	1 - <5
Ingredients determined not to be hazardous or below the hazardous threshold.		To 100%

Preparation Description

Epoxy hardener

4. FIRST-AID MEASURES

Inhalation

If inhaled, remove affected person from contaminated area. Keep at rest until recovered. If symptoms develop and/or persist seek medical attention.

Ingestion

Do not induce vomiting. Wash out mouth thoroughly with water. Seek medical attention.

Skin

Wash affected area thoroughly with soap and water. If symptoms develop seek medical attention.

Eye contact
If in eyes, hold eyelids apart and flush the eyes continuously with running water. Continue flushing for several minutes until all contaminants are washed out completely. If symptoms develop and/or persist seek medical attention.

First Aid Facilities
Eyewash and normal washroom facilities.

Advice to Doctor
Treat symptomatically.

Other Information
For advice in an emergency, contact the National Poisons Centre (0800 764 766), or a doctor, at once.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media
Carbon dioxide, dry chemical, foam, water fog or water mist.

Unsuitable Extinguishing Media
Water with full jet.

Hazards from Combustion Products
Toxic products may be given off in a fire.

Decomposition Temperature
Not available

Precautions in connection with Fire
Fire fighters should wear full protective clothing and self-contained breathing apparatus (SCBA) operated in positive pressure mode. Fight fire from safe location.

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures
Increase ventilation. If possible, contain the spill. Wear appropriate personal protective equipment and clothing to prevent exposure. Spillage can be slippery. Place inert absorbent material onto spillage. Collect the material and place into a suitable labelled container. If contamination of sewers or waterways occurs inform the local water and waste management authorities in accordance with local regulations. Dispose of waste according to the applicable local and national regulations.

7. HANDLING AND STORAGE

Precautions for Safe Handling
Use only in a well ventilated area. Keep containers tightly closed. Prevent the buildup of dusts, mists or vapours in the work atmosphere. Maintain high standards of personal hygiene i.e. washing hands prior to eating, drinking, smoking or using toilet facilities.

Conditions for safe storage, including any incompatibilities
Protect from freezing. Store in a cool, dry, well-ventilated area, out of direct sunlight. Store in suitable, labelled containers. Ensure that storage conditions comply with applicable local and national regulations.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limit values
Not available

Biological Limit Values
No biological limits allocated.

Appropriate Engineering Controls
Use with good general ventilation. If mists or vapours are produced, local exhaust ventilation should be used.

Respiratory Protection
If engineering controls are not effective in controlling airborne exposure, then an approved respirator with a replaceable vapor/mist filter should be used. If engineering controls are not effective in controlling airborne exposure, then an approved respirator with a replaceable vapor/mist filter should be used. Reference should be made to Australia/New Zealand Standards

AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

Eye Protection
Safety glasses with side shields, chemical goggles or full-face shield as appropriate should be used. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform to relevant regulations. Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.

Hand Protection
Wear gloves of impervious material. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Occupational protective gloves should conform to relevant regulations. Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.

Body Protection
Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form
Liquid

Colour
Yellow/Brown

Odour
Mild odour

Decomposition Temperature
Not available

Melting Point
Not available

Boiling Point
Not available

Solubility in Water
Not soluble

Specific Gravity
~0.65

pH when packed
8.5 – 9.0

Vapour Pressure
Not available

Vapour Density (Air=1)
Not available

Evaporation Rate
Not available

Odour Threshold
Not available

Partition Coefficient: n-octanol/water
Not available

Flash Point
Not applicable

Flammability
Noncombustible material

Auto-Ignition Temperature
Not applicable

Flammable Limits – Lower
Not applicable

Flammable Limits – Upper
Not applicable

Kinematic Viscosity
Not available

Dynamic Viscosity
Not available

Freeze thaw stability
Stable

10. STABILITY AND REACTIVITY

Reactivity
Reacts with epoxies.

Chemical Stability
Stable under normal conditions of storage and handling

Conditions to Avoid
Extremes of temperature and direct sunlight. Protect from freezing.

Incompatible materials
Strong oxidising agents. Strong acids and bases.

Hazardous Decomposition Products
Thermal decomposition may result in the release of toxic and/or irritating fumes.

Possibility of hazardous reactions
Not available

Hazardous Polymerization
Will not occur.

11. TOXICOLOGICAL INFORMATION

Calculated Acute Toxicity
LD50 Oral: 2488 mg/kg
LD50 Dermal: 3445 mg/kg
LC50 Inhalation (dust/mist): >5 mg/L/4H

Ingestion
Ingestion of this product may irritate the gastric tract causing nausea and vomiting.

Inhalation
Inhalation of product vapours may cause irritation of the nose, throat and respiratory system.

Skin
May be corrosive to skin. The symptoms may include redness, itching and swelling.

Eye
May be corrosive to eyes. The symptoms may include redness, itching and tearing.

Chronic Effects

H317 May cause an allergic skin reaction.
H341 Suspected of causing genetic defects.
H373 May cause damage to organs through prolonged or repeated exposure (oral/dermal).

12. ECOLOGICAL INFORMATION

Ecotoxicity
Ecotoxic according to criteria of HSNO.
H410 Very toxic to aquatic life with long lasting effects.

Nonyl Phenol Ecotoxic Data
Toxicity to fish flow-through test LC50 - Lepomis macrochirus - 0.209 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates semi-static test EC50 - Daphnia magna (Water flea) - 0.0844 mg/l - 48 h
Toxicity to algae static test EC50 - Selenastrum capricornutum (green algae) - 0.33 mg/l - 72 h

Persistence and degradability: Not available

Mobility: Not available

Bioaccumulative Potential: Not available

Other Adverse Effects: Not available

Environmental Protection
Prevent this material entering waterways, drains and sewers.

13. DISPOSAL CONSIDERATIONS

Disposal considerations
The disposal of the spilled or waste material must be done in accordance with applicable local and national regulations.
Product Disposal:
This product can be disposed through a licensed commercial waste collection service. Product wastes are controlled wastes and should be disposed of in accordance with all applicable local and national regulations. This is a water-based/water-soluble product and therefore can be sent through a Waste Water Treatment Plant and after treatment can be discharged into environment through the sewerage or drainage systems as authorized. Personal protective clothing and equipment as specified in Section 8 of this SDS must be worn during handling and disposal of this product. The ventilation requirements as specified in the same section must also be followed, and the precautions given in Section 7 of this SDS regarding handling must also be followed. Do not dispose into the sewerage system. Dispose of waste according to applicable local and national regulations. In New Zealand, the disposal agency or contractor must comply with the New Zealand Hazardous Substances (Disposal) Regulations 2001. Further details regarding disposal can be obtained on the ERMA New Zealand website under specific group standards.
Container Disposal: The container or packaging must be cleaned and rendered incapable of holding any substance. It can then be disposed of in a manner consistent with that of the substance it contained. In this instance the packaging can be disposed through a commercial waste collection service. Alternatively, the container or packaging can be recycled if the hazardous residues have been thoroughly cleaned or rendered non-hazardous. In New Zealand, the packaging (that may or may not hold any residual substance) that is lawfully disposed of by householders or other consumers through a public or commercial waste collection service is a means of compliance with regulations.

14. TRANSPORT INFORMATION

Transport Information
Classified as Dangerous Goods for transport according to the New Zealand Standard NZS 5433:2007 Transport of Dangerous Goods on Land.
Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.
Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

Regulated for transport	
UN Number:	3267
Proper Shipping Name:	CORROSIVE LIQUID, BASIC, ORGANIC, NOS (contains Amines, Nonyl Phenol, Phenol)
Class:	8
Packing Group:	II

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Hazchem:	2X
Marine Pollutant:	Yes

15. REGULATORY INFORMATION

Regulatory information

Classified as Hazardous according to the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001, New Zealand.

HSNO Classification:	6.1E(o/d), 6.5B, 6.6B, 6.9B, 8.2B, 8.3A, 9.1A, 9.2C
Group Standard:	HSR002658 Surface Coatings and Colorants - Corrosive
HSNO CONTROLS	
Level 2: MSDS required when any quantity is present in a workplace.	
Level 3: Emergency Response Plan and Secondary Containment required when >100L is present in a workplace	
Corrosive Signage required when >250L is stored.	
Ecotoxic signage required when >100L is stored.	
Approved Handler: Not required.	
Tracking: Not required.	
Any existing national regulations on the handling of dangerous substances should be observed. Controls for hazardous substances are based upon current knowledge. Where multiple chemicals are stored, controls will need to take into account aggregate quantities. Contact an EPA/WorkSafe approved test certifier for further information and guidance.	

16. OTHER INFORMATION

Contact Person/Point

IMPORTANT ADVICE: This SDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace including its use in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact the supplier listed in section 1 of the SDS. Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.

Technical Contact Numbers

For further information, contact Alchemis Ltd on +64 9 274 6652, however, in emergencies contact 0800 734 607 (24H)

END OF SDS