Safety Data Sheet

GEMCOAT ES-WB PART A

Version: 1.1
Issued Date: 16/08/2022
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Issued by: Coating Technologies Limited

1. IDENTIFICATION

GHS Product Identifier

Gemcoat ES-WB - Part A

Product Code(s)

G9302A

Company Name

Coating Technologies Limited

Address

10 Andromeda Crescent, East Tamaki, Auckland 2013

Telephone/Fax Number

Telephone: +64 9 837 0897

Emergency phone number

+64 9 837 0897 (Monday to Friday 07:30 to 17:00)

E-mail Address

technical@cotec.co.nz

Recommended use of the chemical and restrictions on use

Industrial application

2. HAZARD IDENTIFICATION

GHS classification of the substance/mixture

HSNO Status: Classified as hazardous according to the criteria of HSNO.

Not classified as Dangerous Goods for transport according to the New Zealand Standard NZS 5433:2007 Transport of Dangerous Goods on Land.

Signal Word: Warning

HSNO Code	HSNO classifications	Hazard statements	GHS Pictogram
6.5B	skin sensitisation Category 1	H317 - May cause an allergic skin reaction.	

Precautionary Statements

General	
P103	Read label before use.
Prevention	
P261	Avoid breathing dust/fume/gas/mist/vapours/spray conditions
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
Response	
P302+P352	IF ON SKIN: Wash with plenty of soap and water.

P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.
Disposal	
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.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Name	CAS	Proportion - %w/w
Oxirane, 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis-, homopolymer	25085-99-8	50-70
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight=700	25068-38-6	1-3
Ingredients determined not to be hazardous or below the hazardous threshold.		To 100%

Preparation Description

Epoxy resin

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

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

White

Odour

Mild

Decomposition Temperature

Not available

Melting Point

Not available

Boiling Point

Not available

Solubility in Water

Soluble

Specific Gravity

1.00-1.20

pH when packed

Neutral

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

Not expected to be a problem.

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

Original data sourced from raw material SDSs and/or CCID.

Acute Oral Toxicity	Not classified
Acute Dermal Toxicity	Not classified
Acute Inhalation Toxicity	Not classified
Acute Aspiration Toxicity	Not classified
Skin Irritancy/Corrosion	Not classified
Eye Irritancy/Corrosion	Not classified
Respiratory Sensitisation	Not classified
Skin Sensitisation	May cause an allergic skin reaction.
Mutagenic	Not classified
Carcinogenic	Not classified
Reproductive/Development Toxicity	Not classified
STOT-SE	Not classified
STOT-RE	Not classified

Estimated Acute Toxicity - product
LD50 Oral: >2,000 mg/kg
LD50 Dermal: >2,000 mg/kg
LC50 Inhalation: >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 irritating to skin. The symptoms may include redness, itching and swelling.

Eye

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

Chronic Effects

Prolonged or repeated exposure to skin may cause dermatitis.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Not ecotoxic according to the criteria of HSNO.

Toxicity

Product Calculated Aquatic Ecotoxicity – L(E)C50: >100 mg/L

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 Wastewater 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

Not classified as Dangerous Goods for transport according to the New Zealand Standard NZS 5433:2007 Transport of Dangerous Goods on Land.

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

15. REGULATORY INFORMATION

Regulatory information

Classified as Hazardous according to the criteria of HSNO.

Group Standard:	HSR002670 Surface Coatings and Colourants (Subsidiary Hazard) Group Standard 2020
HSNO CONTROLS	
SDS required when any quantity Is present in a workplace.	
Emergency Response Plan And Secondary Containment required when >1,000L is present in a workplace.	
Certified Handler	Not Required
Tracking	Not Required
All ingredients are on the New Zealand Inventory of Chemicals (NZIOC), or exempt.	
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 a WorkSafe approved Compliance 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 Coating Technologies Ltd on +64 9 837 0897, however, in emergencies contact 0800 734 607 (24H)

Glossary

HSNO = Hazardous Substances and New Organisms Act 1996

EPA = Environmental Protection Authority (NZ)

CCID = Chemical Classification & Identification Database (EPA)

WES = NZ Work Exposure Standard

TWA = Time Weighted Average

STEL = Short Term Exposure Limit