

SAFETY DATA SHEET

Hazardous Substance, NON-Dangerous Goods

Section 1: Identification

Product Identifier	Epoxy Resin Part A Trade name: Eco Epoxy Shield Part A
Recommended Use	Resin component (Part A) of Eco Epoxy solvent free two component Epoxy Resin
Details of supplier of the SDS	<p>Manufacturer Ecoshield Performance Coatings Pty Ltd 66 O'Sullivan Beach Road Lonsdale 5160 South Australia</p> <p>Contact Person Joe Haif, Managing Director</p> <p>24/7 Emergency 0414 793 237 (TAMSA International Consulting)</p> <p>Email info@ecoshield.com.au</p>

Section 2: Hazard Identification

2.1 Classification of the substance or mixture Classified as hazardous to the criteria of GHS

2.2 Poison Schedule SUSMP S5 Caution

2.3 Hazard Statements

- H315 Causes skin irritation
- H317 May cause allergic skin reaction
- H319 Causes serious eye irritation
- H401 Toxic to aquatic life



Precautionary Statement - Prevention

- P103 Read label before use
- P104 Read Safety Data Sheet before use
- P264 Wash arms, hands and face after handling
- P272 Contaminated clothing should not be allowed out of the workplace
- P273 Avoid release into the environment
- P280 Wear gloves and eye protection

Precautionary Statement - Response

- P302+P352 If on skin: Wash with plenty of water
- P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, continue rinsing
- P310 If ingested: Call a Poisons Centre for advice
- P332+P313 If skin irritation occurs: Get medical attention
- P362 Take off contaminated clothing and wash before use
- P501 Dispose of contents in accordance with local and state regulations

Section 3: Composition of Substance or Mixture

Chemical Name	CAS Number	Percentage
Bisphenol A - Epichlorohydrin	25068-38-6	Over 60%
C12-C14 Glycidal Ether	68609-97-2	Less than 20%
Ingredients not considered harmful	-	Balance

Section 4: First Aid Measures

4.1 General First Aid Information

Eye Contact

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. May cause irritation, redness, pain and tearing. If symptoms persist, a sensible precaution is to seek medical attention.

Inhalation

Not considered a hazard.

Skin Contact

If on skin: wash with plenty of soap and water. May cause redness, irritation and pain. If irritation and pain continue, seek medical advice.

Ingestion

Dilute with milk or water. DO NOT induce vomiting. Call a doctor if necessary.

Advice to Doctor

Treat symptomatically. **Positions Information Centre Australia 131 126.**

4.2 Symptoms Caused by Exposure

Warning, contact Dermatitis may develop from repeated skin exposures.

Section 5: Fire-Fighting Measures

Not flammable.

Section 6: Accidental Release Measures**6.1 Personal Precautions, Protective Equipment (PPE) and Emergency Procedures**

Wear protective gloves and eye protection.

6.2 Clean-up and Containment Methods

Collect liquid with absorbent or sand. Place in sealed bin. Dispose of waste in accordance with local and state regulations. Small spillage is generally suitable for landfill if in sealed containers.

Section 7: Handling and Storage**7.1 Precautions for Safe Handling**

Maintain high standards of hygiene. As with all chemicals wash hands after use. Avoid contact with eyes, skin and mouth. Avoid contact with clothing. Contaminated clothing should be disposed of.

Section 8: Exposure Controls / Personal Protection**8.1 Occupational Exposure Limit Values.**

No exposure standards have been established for this material by Safework Australia. However, with all chemicals, exposure should be kept to the lowest possible levels.

Engineering Controls:	No specific controls are needed. Normal room or worksite ventilation is adequate.
Respiratory Protection:	Normal room ventilation is adequate.
Skin Protection:	Wear protective chemical resistant gloves.
Eye Protection:	Wear safety glasses or goggles.

8.2 Personal Protective Equipment

Wear protective gloves and safety glasses or goggles eye protection. Normal room ventilation is adequate.

Section 9: Physical and Chemical Properties

Appearance	Off white colourless liquid
Physical State	Liquid
Odour	Slight
Odour Threshold	Data not available
pH	Approximately 7
Initial Boiling Point	Commences 200°C
Flash Point	Over 155°C
Flammability	Not flammable
Explosive Limits	Data not available
Vapour Pressure	Data not available
Specific Gravity	1.10
Solubility in Water	Insoluble
Explosive Properties	Will not explode
Oxidising Properties	Data not available
Auto Ignition Temperature	Not capable of auto ignition
Decomposition Temperature	Will not decompose

Section 10: Stability and Reactivity**10.1 Reactivity and Chemical Stability**

Stable under normal conditions of use.

10.2 Possibility of Hazardous Reaction

Exothermic reaction with Part B Epoxy Hardener.

10.3 Conditions to Avoid

Combined part A and B in bulk after mixing. Should be spread on floor surface within 5 minutes to avoid exothermic heat issue. Avoid Nitrates bleaches and other oxidising materials.

10.4 Hazardous decomposition Products

Will not occur.

Section 11: Toxicological Information**Acute Toxicity – Oral Exposure**

Ingestion may irritate the gastric tract causing vomiting and nausea. LD50 rate greater than 2000 mg/kg

Acute Toxicity – Dermal Exposure

Irritating on skin. Prolonged or repeated contact may result in contact dermatitis and sensitisation in some individuals.

Acute Toxicity – Inhalation Exposure

Not applicable. Not expected to be a respiratory sensitizer.

Acute Toxicity – Other Information

LD50, Oral, Rat: (Phosphoric Acid) 15330 mg/kg, behavioral, kidney, bladder, hair effects noted, LD50 dermal, Rat: 2740 mg/kg (Phosphoric Acid), behavioral effects noted.

Skin Corrosion and Irritation

Causes skin irritation, Wash arms, hands and face after handling. Wear protective gloves and eye protection. IF ON SKIN wash with plenty of soap and water. If skin irritation occurs take off contaminated clothing and seek medical attention.

Serious Eye Damage and Irritation

Can cause serious eye damage. Wear eye protection. IF IN EYES rinse with water for several minutes. Remove contact lenses. Continue rinsing. Seek medical help.

Cell Mutagenicity

Not considered mutagenic.

Carcinogenicity

Not considered to be carcinogenic.

Reproductive Toxicity

Not applicable

Target Organ Toxicity from Single Exposure

Not applicable

Target Organ Toxicity from Repeated Exposure

Not applicable

Aspiration hazard

Not applicable

Additional Toxicity Information

Data not available

Section 12: Ecological Information**12.1 Ecotoxicity**

Toxic to aquatic life with long lasting effects. Avoid release to the environment. Dispose of contents in accordance with local, state and federal regulations.

12.2 Persistence and Degradability

Data not available.

12.3 Bioaccumulative Potential

Data not available.

12.4 Mobility in Soil

Data not available

12.5 Other adverse Ecological Effects

Data not available

Section 13: Disposal Considerations**13.1 Waste Treatment Methods**

Do not allow this or any chemical into drains or watercourses. If soaked up by absorbent, may be disposed of as solid waste. Wastes should be disposed of in accordance with any applicable regulations.

Section 14: Transportation Information**14.1 UN Number**

3082

14.2 Proper Shipping Name or Technical Name

Environmentally Hazardous Substance, Liquid, N.O.S. (Contains Bisphenol A)

14.3 Transport Hazard DG Class

9

14.4 Packing Group

III

14.5 Special Provisions

No data available

14.6 Label

Miscellaneous

14.7 Hazchem code

3Z



14.8 EPG Number
9C1

Section 15: Regulatory Information

15.1 General Information
No data available

15.2 Poisons Schedule
S5

15.3 National / Regional Inventories
AICS listed

Section 16: Other Information

16.1 Revision and Date of SDS
New SDS format - Issue number 1, dated 20 September 2017

16.2 SDS Prepared by:
P. Holgate MRACI, Ch Chem, FATFA
TAMSA International Consulting
Contact tamsaconsult@hotmail.com
24/7 mobile 0414 793 237

Important note:

All information contained in this SDS is considered by TAMSA International Consulting to be correct at the time of publication. All materials present hazards known and unknown. Caution in use of any product is recommended. This SDS is prepared for Ecoshield Performance Coatings Pty Ltd and is provided for customer and public use in good faith believing it to be accurate and representative. Final determination of suitability for use is the responsibility of the product user

**EMERGENCY SDS CONTACT POINT:
TAMSA International Consulting**

24 Hour mobile: 0414 793 239
Email for SDS Enquiries: tamsaconsult@hotmail.com

SAFETY DATA SHEET

Hazardous Substance, NON-Dangerous Goods

Section 1: Identification

Product Identifier	Epoxy Resin Part B Trade name: Eco Epoxy Shield Part B
Recommended Use	Hardener component (Part B) of Eco Epoxy Shield solvent free two component Epoxy Resin system.
Details of supplier of the SDS	Manufacturer Ecoshield Performance Coatings Pty Ltd 66 O'Sullivan Beach Road Lonsdale 5160 South Australia Contact Person Joe Haif, Managing Director 24/7 Emergency 0414 793 237 (TAMSA International Consulting) Email info@ecoshield.com.au

Section 2: Hazard Identification

2.1 Classification of the substance or mixture Classified as hazardous to the criteria of GHS

2.3 Hazard Statements

H290	May be corrosive to metals
H302	Harmful if swallowed
H314	Causes severe skin burns
H317	May cause allergic skin reaction
H318	Causes serious eye damage
H332	Harmful if inhaled
H412	Harmful to aquatic life



Precautionary Statement – Prevention

P234	Keep in prescribed container
P260	Do not breathe vapour or fumes
P271	Use in well ventilated area
P264	Wash arms, hands and face after handling
P272	Contaminated clothing should not be allowed out of the workplace
P273	Avoid release into the environment
P280	Wear gloves and eye protection

Precautionary Statement – Response

P301+P330+P331	If swallowed: Rinse mouth, do not induce vomiting. Seek medical advice.
P303+P361+P353	If skin contact occurs wash with plenty of water. If irritation or rashes occur seek medical attention.
P310	If ingested: Call a Poisons Centre for advice
P362	Take off contaminated clothing and wash before use
P501	Dispose of contents in accordance with local and state regulations

Section 3: Composition of Substance or Mixture

Chemical Name	CAS Number	Percentage
Diammine	2855-13-2	Over 90%
Ingredients not considered harmful	-	Balance

Section 4: First Aid Measures

4.1 General First Aid Information

Eye Contact

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. May cause irritation, redness, pain and tearing. If symptoms persist, a sensible precaution is to seek medical attention.

Inhalation

If breathing becomes uncomfortable remove to fresh air. If problems persist seek medical advice. Corrosive fumes may cause lung damage.

Skin Contact

Material is corrosive and can cause skin burns. Gloves, arm and leg coverings are advised. Should skin contact occur wash with plenty of soap and water. Material is sticky so may take some time to wash off. In the event of rash or irritation seek medical advice.

Ingestion

Wash mouth with plenty of water. Remove any false teeth. DO NOT INDUCE VOMITING UNLESS DIRECTED BY MEDICAL CONTACT. Seek medical advice or the Poisons Information centre

Advice to Doctor

Treat symptomatically. **Positions Information Centre Australia 131 126.**

4.2 Symptoms Caused by Exposure**Short Term (Acute)**

Eye Contact No known significant effects or critical hazards
 Inhalation No known significant effects or critical hazards
 Skin Contact May cause allergic reaction and burns
 Ingestion May cause burning of throat and oesophagus

Over Exposure/Delayed

Eye Contact Burns and eye damage
 Inhalation Potential for lung oedema as corrosive
 Skin Contact Irritation and eye damage can occur
 Ingestion Poisonous and strongly alkaline. Can cause throat and digestive system damage.

4.3 Indication to Doctor

Treat symptomatically. Contact poisons specialist if large quantities ingested. Quote UN number 2735.

Section 5: Fire-Fighting Measures**5.1 Extinguishing Media**

Foam, dry chemical, water mist. Do not use water jet.

5.2 Special Hazards from Substance

Firefighting water should not be drained into waterway or sewer. Decomposition products can include Carbon Dioxide, Nitrogen Oxides and Carbon Monoxide.

5.3 Advice to Firefighters

Wear SCBA and protective equipment.

Section 6: Accidental Release Measures**6.1 Personal Precautions, Protective Equipment (PPE) and Emergency Procedures**

Wear protective gloves and eye protection.

6.2 Clean-up and Containment Methods

Collect liquid with absorbent or sand. Place in sealed bin. Dispose of waste in accordance with local and state regulations. Small spillage is generally suitable for landfill if in sealed containers.

Section 7: Handling and Storage**7.1 Precautions for Safe Handling**

The epoxy hardener is corrosive. For open containers gloves should be worn as well as goggles and arm and leg covering. Maintain high standards of hygiene. As with all chemicals wash hands after use. Avoid contact with eyes, skin and mouth. Avoid contact with clothing. Contaminated clothing should be disposed of.

7.2 Conditions for Safe Storage

Store between 2 and 40 deg C. Keep away from direct sunlight. Keep away from food and drink. Carefully reseal any part container. Avoid storage near strong acids, bleaches and oxidising agents. Avoid contact with Aluminum and Copper and their alloys.

Storage Class: 8

Section 8: Exposure Controls / Personal Protection**8.1 Occupational Exposure Limit Values.**

No exposure standards have been established for this material by Safework Australia. However, with all chemicals, exposure should be kept to the lowest possible levels.

Engineering Controls: No specific controls are needed. Normal room or worksite ventilation is adequate.
 Respiratory Protection: Normal room ventilation is adequate.
 Skin Protection: Wear protective chemical resistant gloves. Cover arms and legs.
 Eye Protection: Wear safety glasses or goggles.

8.2 Personal Protective Equipment

Wear protective gloves and safety glasses or goggles eye protection. Normal room ventilation is adequate.

Section 9: Physical and Chemical Properties

Appearance	Clear to pale yellow liquid
Physical State	Viscous liquid
Odour	Mild amine
Odour Threshold	Data not available
pH	Approximately 13
Initial Boiling Point	Commences 200°C
Flash Point	Over 100°C
Flammability	Not flammable

Explosive Limits	Data not available
Vapour Pressure	0.01 Pa at 20°C
Specific Gravity	1.04
Solubility in Water	Insoluble
Viscosity	Viscous liquid
Explosive Properties	Will not explode
Oxidising Properties	Data not available
Auto Ignition Temperature	Not capable of auto ignition

Section 10: Stability and Reactivity

- 10.1 Reactivity and Chemical Stability**
Stable under normal conditions of use.
- 10.2 Possibility of Hazardous Reaction**
Exothermic reaction with Part A Epoxy Resin. Can react with chlorine and bleach. Exothermic reaction with water.
- 10.3 Conditions to Avoid**
Combined part A and B in bulk after mixing. Should be spread on floor surface within 5 minutes to avoid exothermic heat issue.
- 10.4 Hazardous decomposition Products**
Will not occur in normal conditions of storage and use.
- 10.5 Incompatible Materials**
Aluminium, copper and alloys.

Section 11: Toxicological Information

Acute Toxicity – Oral Exposure

Ingestion may irritate the gastric tract causing vomiting and nausea. LD50 rate greater than 2000 mg/kg

Acute Toxicity – Dermal Exposure

Irritating on skin. Prolonged or repeated contact may result in contact dermatitis and sensitisation in some individuals.

Acute Toxicity – Inhalation Exposure

Considered to be a respiratory sensitiser.

Skin Corrosion and Irritation

Causes skin irritation. Wash arms, hands and face after handling. Wear protective gloves and eye protection. IF ON SKIN wash with plenty of soap and water. If skin irritation occurs take off contaminated clothing and seek medical attention.

Serious Eye Damage and Irritation

Can cause serious eye damage. Wear eye protection. IF IN EYES rinse with water for several minutes. Remove contact lenses. Continue rinsing. Seek medical help.

Cell Mutagenicity

Not considered mutagenic.

Carcinogenicity

Not considered to be carcinogenic.

Reproductive Toxicity

Not applicable

Target Organ Toxicity from Single Exposure

Not applicable

Target Organ Toxicity from Repeated Exposure

Not applicable

Aspiration hazard

Not applicable

Additional Toxicity Information

Data not available

Section 12: Ecological Information

- 12.1 Ecotoxicity**
Toxic to aquatic life. Avoid release to the environment. Dispose of contents in accordance with local, state and federal regulations.
- 12.2 Persistence and Degradability**
Data not available.
- 12.3 Bioaccumulative Potential**
Data not available.
- 12.4 Mobility in Soil**
Data not available
- 12.5 Other adverse Ecological Effects**
Data not available

Section 13: Disposal Considerations

13.1 Waste Treatment Methods

Do not allow this or any chemical into drains or watercourses. If soaked up by absorbent, may be disposed of as solid waste. Wastes should be disposed of in accordance with any applicable regulations.

Section 14: Transportation Information

14.1 UN Number

2735

14.2 Proper Shipping Name or Technical Name

Amines, Liquid, Corrosive, NOS

14.3 Transport Hazard DG Class

8

14.4 Packing Group

III

14.5 Special Provisions

No data available

14.6 Label

Corrosive



14.7 Hazchem code

2X

14.8 EPG Number

9C1

14.9 Poisons Schedule

S5

Section 15: Regulatory Information

15.1 General Information

Classified as hazardous according to the Globally harmonized System of Classification and Labeling (GHS). Classified as a poison according to the Standard for the Uniform Scheduling of medicines and Poisons (SUSMP).

15.2 Poisons Schedule

S5

15.3 National / Regional Inventories

AICS listed

Section 16: Other Information

16.1 Revision and Date of SDS

New SDS format - Issue number 1, dated 20 September 2017

16.2 SDS Prepared by:

P. Holgate MRACI, Ch Chem, FATFA
TAMSA International Consulting
Contact tamsaconsult@hotmail.com
24/7 mobile 0414 793 237

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