

SAFETY DATA SHEET

Eco Poxy Shield Part A

Section 1: Identification

Resin component of a solvent free Epoxy resin

- 1.1 Product Identifier** Epoxy Resin Part A
 Trade name : Eco Poxy Shield Part A
- 1.2 Recommended Use** Resin component (part A) of Eco Poxy solvent free two component Epoxy resin
- 1.3 Details of supplier of the SDS** **Manufacturer**
 Ecoshield Performance Coatings Pty Ltd
 66 O'Sullivans Beach Road
 Lonsdale
 South Australia 5160
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 according to the criteria of GHS
- 2.2 Poison Schedule** SUSMP S5 caution



Hazard Number	Hazard Statement
H315	Causes skin irritation
H317	May cause allergic skin reaction
H319	Causes serious eye irritation
H401	Toxic to aquatic life
Precautionary Number	Precautionary Statement - Prevention
P103	Read label before use
P104	Read Safety Data Sheet before use
P264	Wash arms, hand and face after handling
P272	Contaminated clothing should not be allowed out of the work place
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 of 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. 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. Poisons Information centre Australia 131 126

4.2 Symptoms Caused by Exposure

Warning. Chronic dermatitis may develop from repeated exposures.

Section 5: Fire-Fighting Measures

Not flammable

Section 6: Accidental Release Measures

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Wear protective gloves and eye protection.

6.2 Clean-up and Containment Methods

Collect liquid with absorbant or sand. Place in sealed bin. Dispose of waste in accordance with local and state regulations. Generally suitable for land fill if absorbed spillage is in sealed containers.

Section 7: Handling and Storage

7.1 Precautions for Safe handling and Storage

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 ventilation is adequate.
Respiratory Protection:	Normal room ventilation is adequate
Skin Protection:	Wear protective chemical resistant gloves and eye protection.
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:	Approx. 7
Initial Boiling Point:	Over 200°C
Flash Point:	Over 155 deg C
Flammability:	Not flammable
Explosive Limits:	Data not available
Vapour Pressure:	Data not available
Specific Gravity:	1.10
Solubility in Water:	Insoluble
Auto Ignition Temperature:	Not capable of Auto ignition
Decomposition Temperature:	Will not decompose
Viscosity:	Viscous liquid
Explosive Properties:	Will not explode
Oxidising Properties:	Data not available

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 into drains or watercourses. Wastes are controlled wastes and 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 11: Other Information

16.1 Revision and Date of SDS

Issue number 1, dated 20 September 2017

16.2 SDS Prepared by:

P. Holgate MRACI, Ch Chem, FATFA
TAMSA International Consulting
Contact tamsaconsult@optusnet.com.au 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 24 hour mobile – 0414 793 237

Consulting Email for MSDS enquiries: tamsaconsult@optusnet.com.au

SAFETY DATA SHEET

Eco Poxy Shield Part B

Section 1: Identification

Hardener component of a solvent free 2 pack Epoxy resin

- 1.1 Product Identifier** Epoxy Resin Part B
 Trade name : Eco Poxy Shield Part B
- 1.2 Recommended Use** Hardener component (part B) of Eco Poxy Shield solvent free two component Epoxy resin system.
- 1.3 Details of supplier of the SDS** **Manufacturer**
 Ecoshield Performance Coatings Pty Ltd
 66 O'Sullivan's Beach Road
 Lonsdale
 South Australia 5160
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 according to the criteria of GHS



Hazard Number	Hazard Statement
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 Number Precautionary Statement - Prevention	
P234	Keep in prescribed container
P260	Do not breathe vapour or fumes
P271	Use in well ventilated area
P264	Wash arms, hand and face after handling
P272	Contaminated clothing should not be allowed out of the work place
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 of 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. 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. Poisons 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 oesophegus
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. Contact Poisons Information centre on 131 126

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.

5.1 Special Hazards from Substance

Fire fighting 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 and Emergency Procedures

Wear protective gloves and eye protection.

6.2 Clean-up and Containment Methods

Collect liquid with absorbant or sand. Place in sealed bin. Dispose of waste in accordance with local and state regulations. Use licensed disposal company is preferable.

Section 7: Handling and Storage

7.1 Precautions for Safe handling and Storage

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 ventilation is generally adequate.
Respiratory Protection:	Use in well ventilated area. Otherwise use cartridge respirator with organic vapour cartridge.
Skin Protection:	Wear protective chemical resistant gloves and eye protection. 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 generally 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:	Approx. 13
Initial Boiling Point:	Over 200 deg C
Flash Point:	Over 100 deg C
Flammability:	Not flammable
Explosive Limits:	Data not available
Vapour Pressure:	0.01 Pa at 20 deg C
Specific Gravity:	1.04
Solubility in Water:	Insoluble
Auto Ignition Temperature:	Not capable of Auto ignition
Viscosity:	Viscous liquid
Explosive Properties:	Will not explode
Oxidising Properties:	Data not available

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

Aluminum, 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 sensitizer.

Skin Corrosion and Irritation

Causes skin irritation and burns. 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 into drains or watercourses. Wastes are controlled wastes and should be disposed of in accordance with any applicable regulations or by use of a licensed waste disposal contractor.

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



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 11: Other Information

16.1 Once combined with part A per Ecoshield instructions the cured product is considered INERT.

16.2 Revision and Date of SDS

Issue number 1, dated 20 September 2017

16.3 SDS Prepared by:

P. Holgate MRACI, Ch Chem, FATFA
TAMSA International Consulting
Contact tamsaconsult@optusnet.com.au mobile 0414 793 237

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