

SAFETY DATA SHEET

Eco Sparta Shield Part A

Section 1: Identification

Resin component of a solvent free 2 pack Polyaspartic resin system.

- 1.1 Product Identifier** Polyaspartic Resin Part A
 Aspartic Ester
 Trade name : Eco Sparta Shield Part A
- 1.2 Recommended Use** Resin component (part A) of Eco Sparta Shield solvent free two component Polyaspartic 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** Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail; NONDANGEROUS GOODS.



Hazard Number	Hazard Statement
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H317	May cause allergic skin reaction
H412	Harmful to aquatic life
Precautionary Number	Precautionary Statement - Prevention
P102	Keep out of reach of children
P103	Read label before use
P264	Wash arms, hand and face after handling
P273	Avoid release into the environment
P280	Wear protective clothing
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
Aspartic Ester	Specific identity withheld as a trade secret	Over 95%
Aliphatic Carboxylic Ester	623-91-6	<5%

Section 4: First Aid Measures

4.1 General First Aid Information

Eye Contact	In case of contact, flush eyes with plenty of water. Get medical attention if irritation develops.
Inhalation	Remove source of exposure or move person into fresh air. If experiencing respiratory symptoms seek medical advice.
Skin Contact	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	Immediately contact the poisons information centre. Wash mouth with plenty of water. Remove any false teeth. DO NOT INDUCE VOMITING UNLESS DIRECTED BY MEDICAL CONTACT. Give 1 or 2 glasses of milk or water.
Advice to Doctor	Treat symptomatically. Poisons Information centre Australia 131 126

4.2 Indication to Doctor

Treat symptomatically. Contact poisons specialist if large quantities ingested.

Section 5: Fire-Fighting Measures

5.1 Extinguishing Media

All extinguishing media are suitable.

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

No specific advice

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

6.3 Environmental Precautions

No special environmental precautions needed.

Section 7: Handling and Storage

7.1 Precautions for Safe handling and Storage

For open containers gloves should be worn as well as goggles and arm and leg covering. Close containers after use as material is hygroscopic and will absorb small amounts of water if left exposed. 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.
 Eating and drinking in areas where product used is not advised.

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, bases and oxidising agents.

Section 8: Exposure Controls / Personal Protection

8.1 Occupational Exposure Limit Values.

Material	CAS Number	Criteria	Value measured as NCO
Aspartic Ester	-	TWA	No exposure limits established

Engineering Controls: No specific controls are needed.
 Respiratory Protection: Use in well ventilated area.
 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. Cover arms and legs. Normal room ventilation is generally adequate.

Section 9: Physical and Chemical Properties

Appearance:	Colourless to light yellow
Physical state:	Viscous Liquid
Odour:	Slight sweet
Odour threshold:	Data not available
pH:	Data not available
Initial Boiling Point:	Approximately 185 deg C
Flash Point:	Approximately 145 deg C deg C
Flammability:	Not flammable
Explosive Limits:	Data not available
Vapour Pressure:	Less than 0.000014 mmHg at 20 deg C
Specific Gravity:	1.06
Solubility in Water:	Insoluble
Auto Ignition Temperature:	365 deg C
Viscosity:	Viscous liquid
Explosive Properties:	Will not explode
Decomposition temperature	Data not available
Oxidising Properties:	Data not available

Section 10: Stability and Reactivity

10.1 Reactivity and Chemical Stability

Highly stable under normal conditions of use.

10.2 Possibility of Hazardous Reaction

Exothermic reaction with Part B Eco Sparta Shield Polyaspartic Resin.

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

No information available.

Section 11: Toxicological Information

Acute Toxicity – Oral Exposure

Ingestion may irritate the gastric tract causing vomiting and nausea. LD50 rat greater than 2,000 mg/kg.

Acute Toxicity – Dermal Exposure

Irritating on skin.

Acute Toxicity – Inhalation exposure

Not considered to be a respiratory sensitizer. LD50 inhalation Rat 4,224 mg/l/4h.

Skin Corrosion and 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. Rabbit - non-irritating

Serious Eye Damage and Irritation

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

Cell Mutagenicity

Not considered mutagenic.

Carcinogenicity

Not considered to be carcinogenic. Ames test negative.

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

Harmful 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 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

Not assigned

14.2 Proper Shipping Name or Technical Name

Non-hazardous resin.

14.3 Transport Hazard DG Class

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail; NONDANGEROUS GOODS

14.4 Packing Group

Not regulated

14.5 Special Provisions

No data available

14.6 Label

No requirements

14.7 Hazchem code

Not applicable

14.8 EPG Number

Not applicable

14.9 Poisons Schedule

S5 caution

Section 15: Regulatory Information

15.1 General Information

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail; NONDANGEROUS GOODS

15.2 Poisons Schedule

S5 caution

15.3 National / Regional Inventories

AICS listed

Section 11: Other Information

16.1 Once combined with part B per Eco Sparta Shield instructions the cured product is considered INERT.

16.2 Revision and Date of SDS

Issue number 1, dated 25 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

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 793 237**
Email for MSDS enquiries: tamsaconsult@optusnet.com.au

SAFETY DATA SHEET

Eco Sparta Shield Part B

Section 1: Identification

Hardener component of a solvent free 2 pack Polyaspartic resin system.

- 1.1 **Product Identifier** Polyaspartic Resin Part B
 Trade name : Eco Sparta Shield Part B

- 1.2 **Recommended Use** Hardener component (part B) of Eco Sparta Shield solvent free two component Polyaspartic 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
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H317	May cause allergic skin reaction
H318	Causes serious eye damage
H412	Harmful to aquatic life
Precautionary Number	Precautionary Statement - Prevention
P101	If medical advice is needed have product container on hand
P102	Keep out of reach of children
P103	Read label before use
P264	Wash arms, hand and face after handling
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
Aspartic acid	2812-81-2	Over 90%
Proprietary items	Trade secret	<10%

Section 4: First Aid Measures

4.1 General First Aid Information

Eye Contact	Remove source of exposure or move person to fresh air. Rinse eyes with gently flowing water for several minutes while holding eyelids open. Remove contact lenses if present and easy to do. Continue rinsing for 15 to 20 minutes. If eye irritation persists seek medical advice.
Inhalation	Remove source of exposure or move person into fresh air. If experiencing respiratory symptoms call POISONS Centre or doctor.
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	Immediately contact the poisons information centre. Wash mouth with plenty of water. Remove any false teeth. DO NOT INDUCE VOMITING UNLESS DIRECTED BY MEDICAL CONTACT. Give 1 or 2 glasses of milk or water.
Advice to Doctor	Treat symptomatically. Poisons Information centre Australia 131 126

4.2 Indication to Doctor

Treat symptomatically. Contact poisons specialist if large quantities ingested.

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, traces of Hydrogen Cyanide and Carbon Monoxide.

5.3 Advice to firefighters

Wear SCBA and protective equipment if material involved in large fire.

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.

6.3 Environmental Precautions

No special environmental precautions needed.

Section 7: Handling and Storage

7.1 Precautions for Safe handling and Storage

The Part B 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. Eating and drinking in areas where product used is not advised.

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, bases and oxidising agents.

Storage Class 8 Corrosive

Section 8: Exposure Controls / Personal Protection

8.1 Occupational Exposure Limit Values.

Material	CAS Number	Criteria	Value measured as NCO
Polyaspartic acid	28182-81-2	TWA	0.02 mg/m ³

Engineering Controls: No specific controls are needed.
 Respiratory Protection: Use in well ventilated area.
 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. Cover arms and legs. Normal room ventilation is generally adequate.

Section 9: Physical and Chemical Properties

Appearance:	Colourless to light yellow
Physical state:	Viscous Liquid
Odour:	Slight sweet
Odour threshold:	Data not available
pH:	Data not available
Initial Boiling Point:	Over 280 deg C
Flash Point:	193 deg C
Flammability:	Not flammable
Explosive Limits:	Data not available
Vapour Pressure:	Less than 0.00001hPa at 20 deg C
Specific Gravity:	1.15
Solubility in Water:	Insoluble
Auto Ignition Temperature:	440 deg C
Viscosity:	Viscous liquid
Explosive Properties:	Will not explode
Decomposition temperature	150 deg C
Oxidising Properties:	Data not available

Section 10: Stability and Reactivity

10.1 Reactivity and Chemical Stability

Highly stable under normal conditions of use.

10.2 Possibility of Hazardous Reaction

Exothermic reaction with Part A Sparta Shield Polyaspartic Resin. 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

Strong acids, bases and oxidising agents

Section 11: Toxicological Information

Acute Toxicity – Oral Exposure

Ingestion may irritate the gastric tract causing vomiting and nausea. LD50 rat greater than 745 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. LD50 inhalation Rat 0.31 mg/l/4h.

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

Not assigned

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 11: Other Information

16.1 Once combined with part A per Eco Sparta Shield instructions the cured product is considered INERT.

16.2 Revision and Date of SDS

Issue number 1, dated 25 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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