


SAFETY DATA SHEET

Hazardous Substance, NON-Dangerous Goods

Section 1: Identification

Product Identifier	Polyaspartic Resin Part A Trade name: Eco Sparta Shield Part A
Recommended Use	Resin component (Part A) of Eco Sparta Shield solvent free two component Polyaspartic resin system.
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 according to the criteria of GHS. Non-Dangerous Goods per ADG code.	
2.2 Poison Schedule	Not classified	
2.3 Hazard Statements		
H302		Harmful if swallowed
H315		Causes skin irritation
H317		May cause allergic skin reaction
H319		Causes serious eye irritation
Precautionary Statement - Prevention		
P102	Keep out of reach of children	
P103	Read label before use	
P264	Wash arms, hands and face after handling	
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
Aspartic Ester	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. **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

- 5.1 Extinguishing Media**
All extinguishing media are suitable.
- 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**
No specific advice.

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, 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**
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 Precautions for Storage**
Store between 2 and 40°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.**
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	Colourless to light yellow
Odour	Slight, sweet
Odour Threshold	Data not available
pH	Data not available
Initial Boiling Point	Approximately 185°C
Flash Point	Approximately 145°C
Flammability	Not flammable
Explosive Limits	Data not available
Vapour Pressure	Less than 0.000014 mmHg at 20°C
Specific Gravity	1.06
Solubility in Water	Insoluble
Viscosity	Viscous liquid
Explosive Properties	Will not explode
Oxidising Properties	Data not available
Auto Ignition Temperature	365°C
Decomposition Temperature	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 Contact 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**
None
- 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

- 14.4 Packing Group**
Not regulated
- 14.5 Special Provisions**
No data available
- 14.6 Label**
No specific requirement
- 14.7 Hazchem code**
None
- 14.8 EPG Number**
None

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
- 15.2 Poisons Schedule**
S5 Caution
- 15.3 National / Regional Inventories**
AICS listed

Section 16: 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**
New SDS format - Issue number 1, dated 25 September 2017
- 16.3 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	Polyaspartic Resin Part B Trade name: Eco Sparta Shield Part B
Recommended Use	Hardener component (Part B) of Eco Sparta Shield solvent free two component Polyaspartic 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 according to the criteria of GHS.										
2.2 Poison Schedule	Not classified										
2.3 Hazard Statements	<table><tr><td>H302</td><td>Harmful if swallowed</td></tr><tr><td>H314</td><td>Causes severe skin burns and eye damage</td></tr><tr><td>H317</td><td>May cause allergic skin reaction</td></tr><tr><td>H318</td><td>Causes serious eye damage</td></tr><tr><td>H412</td><td>Harmful to aquatic life</td></tr></table>	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
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 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, hands 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 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
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. **Positions 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.

5.2 Special Hazards from Substance

Firefighting 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 (PPE) and Emergency Procedures**

Wear protective gloves and eye protection.

6.2 Clean-up and Containment Methods

Collect liquid with absorbent, 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**

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 Precautions for Storage

Store between 2 and 40°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	0.02mg/m ³

Engineering Controls: No specific controls are needed.

Respiratory Protection: Use in well ventilated area.

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. Cover arms and legs. Normal room ventilation is generally adequate.

Section 9: Physical and Chemical Properties

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

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 Contact 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 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**
None
- 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 Posions 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** Once combined with part A per Eco Sparta Shield instructions the cured product is considered INERT.
- 16.2 Revision and Date of SDS**
New SDS format - Issue number 1, dated 25 September 2017
- 16.3 SDS Prepared by:**
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