

## SAFETY DATA SHEET

# Eco Densi Shield

**NON-Hazardous Substance, NON-Dangerous Goods**

### Section 1: Identification

A low toxicity, zero VOC waterborne Lithium Silicate dispersion.

Hazard alert code: NIL

- 1.1 **Product Identifier**                      High performance concrete densifier. Lithium.  
Trade name : Eco Densi Shield
  
- 1.2 **Recommended Use**                      Densifying the surface of concrete to provide for increased permeability resistance to penetration of stains and water.
  
- 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 Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".
  
- 2.2 **Poison Schedule**                      Not classified

Hazard Number	Hazard Statement
H315	Causes skin irritation
H317	May cause allergic skin reaction
H319	Causes eye irritation
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
P273	Avoid release into the environment
P280	Wear gloves and eye protection
Precautionary Number	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
Lithium Silicate particles	12627 – 14 - 4	20 - 60%
Proprietary ingredients not considered harmful	-	Less than 20%
Water		Balance to 100%

### Section 4: First Aid Measures

#### 4.1 General First Aid Information

<b>Eye Contact</b>	If in eyes: Rinse cautiously with water for several minutes. Continue rinsing. May cause irritation and redness. Seek medical attention.
<b>Inhalation</b>	Not considered a hazard. If spraying material is considered non-toxic and pose no safety or health threat but may cause irritation to nose and throat.
<b>Skin Contact</b>	If on skin: wash with plenty of soap and running water. If irritation persists seek medical advice.
<b>Ingestion</b>	Discomfort in stomach and intestinal tract may occur. Immediately give milk or water. Do not induce vomiting. First aid is generally not required. Call a doctor if necessary.
<b>Advice to Doctor</b>	Treat symptomatically. <b>Poisons Information centre Australia 131 126</b>

#### 4.2 Symptoms Caused by Exposure

None known

### Section 5: Fire-Fighting Measures

Not flammable.

If involved in a fire there is no restriction on types of fire extinguishers used in the immediate area.

There is no explosion risk.

**Hazchem - None**

### Section 6: Accidental Release Measures

#### 6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Avoid contact with skin and eyes. Protective gloves and eye protection are advised for all chemicals even when classified as non hazardous.

#### 6.2 Clean-up and Containment Methods

Minor hazard. 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

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

#### 7.2 Precautions for Storage

Store in original containers.  
Do not allow to freeze.  
Store away from foodstuffs

### 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 work site ventilation is adequate.  
 Respiratory Protection: Normal room ventilation is adequate.  
 Skin Protection: Wear protective 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.  
 If spraying use a gauze dust mask to capture any airborne mist particles.

**Section 9: Physical and Chemical Properties**

Appearance:	Transparent liquid
Odour:	Odourless
Odour threshold:	No applicable
pH:	Approx. 7
Initial Boiling Point:	Commences 100°C
Freezing Point:	0 deg C
Flash Point:	No applicable
Flammability:	Not flammable
Explosive Limits:	Not applicable
Vapour Pressure:	Per water
Specific Gravity:	1.10
Solubility in Water:	100% soluble
Auto Ignition Temperature:	Not capable of Auto ignition
Decomposition Temperature:	Will not decompose
Viscosity:	Free flowing 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**

Hazardous polymerization will not occur..

**10.3 Conditions to Avoid**

Stable under normal conditions.

**10.4 Hazardous decomposition Products**

Will not occur.

**Section 11: Toxicological Information**

**Acute Toxicity – Oral Exposure**

Has not been classified as harmful by ingestion. Ingestion may irritate the gastric tract causing vomiting and nausea.

**Acute Toxicity – Dermal Exposure**

This material is not thought to produce adverse health effects or skin irritation from contact. Nevertheless, good hygiene practice requires skin to be protected from any chemical contact.

**Acute Toxicity – Inhalation exposure**

Not thought to produce adverse health effects from inhalation. Nevertheless, good hygiene practice requires avoiding breathing any chemical product. Avoid spray mist if spraying – use dust / vapour mask.

**Chronic Exposure**

Long term exposure to the product is not thought to produce any chronic health effects. Nevertheless exposure by all routes should be minimized as a matter of course.

**Skin Contact and Irritation**

Not thought to produce adverse health effects from skin contact

**Serious Eye Damage and Irritation**

Not thought to produce adverse health effects from eye contact. Refer to first aid procedures in section 4 above.

**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**

Not classified as toxic to aquatic life with long lasting effects. However, 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 not controlled wastes but should be disposed of in accordance with any applicable regulations. Absorbed spillages are suitable for land fill disposal.

## Section 14: Transportation Information

Not regulated for transport of dangerous goods.

**14.1 UN Number**

None

**14.2 Proper Shipping Name or Technical Name**

Water based liquid.

**14.3 Transport Hazard DG Class**

None (ADG7)

**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**

No data available

**15.2 Poisons Schedule**

None

**15.3 National / Regional Inventories**

AICS listed

## Section 11: Other Information

**16.1 Revision and Date of SDS**

Issue number 1, dated 26 September 2017

**16.2 SDS Prepared by:**

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**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:**

<b>TAMSA International Consulting</b>	<b>24 hour mobile – 0414 793 237</b> <b>Email for MSDS enquiries: <a href="mailto:tamsaconsult@optusnet.com.au">tamsaconsult@optusnet.com.au</a></b>
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