

# Material Safety Data Sheet

AQUAPLATE® steel, POLYMER COATED STEEL - STRIP AND SHEET

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by  
BSLAUS

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

### Product Name

AQUAPLATE® steel, POLYMER COATED STEEL - STRIP AND SHEET

### Company Name

BlueScope Steel Limited (ABN 16 000 011 058)

### Address

Level 11, 120 Collins St Melbourne  
VIC 3000 Australia

### Emergency Tel.

02 4275 7522 (24h)

### Telephone/Fax Number

Telephone: 1800800789 (Australia Only)

### Email

steeldirect@bluescopesteel.com

### Recommended Use

Water storage tanks, metal fabrication.

## 2. HAZARDS IDENTIFICATION

### Hazard Classification

Not classified as Hazardous according to criteria of National Occupational Health & Safety Commission (NOHSC), Australia.  
Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

### Safety Phrase(s)

S22 Do not breathe dust.  
S24 Avoid contact with skin.  
S37 Wear suitable gloves.  
S41 In case of fire and/or explosion do not breathe fumes.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Information on Composition

Steel strip with a hot dipped zinc coating and a laminated polymer on both surfaces, or with a laminated polymer layer on one surface and a painted finish on the other surface, or with a laminated polymer layer on one surface and a clear varnish finish on the other surface

### Ingredients

Name	CAS	Proportion
Base Metal - All Products		
Steel	12597-69-2	100 %
=====		
Metallic Coating		
Zinc Coating		275-450 g/m2 Total both sides
Aluminium	7429-90-5	<1 % Al
Antimony	7440-36-0	<0.2 % Sb
Zinc	7440-66-6	Balance
=====		
Chemical Treatment		
Hexavalent Chromium Compounds	Mixture	Max 30mg/m2 each side
=====		
Top surface		
Food grade PVC Film (non Phthalate and non BPA)		<200 micron
=====		
Reverse surface		
Double Sided finish: as per top surface OR Clear seal finish: no hazardous substances		

OR

Painted Finish:

Primer:		~5 micron
Strontium chromate	7789-06-2	<15% of primer layer
Less than 5% chromium in dry film		

AND

Backing Coat:	Mixture	~20 micron
Polyester Paint		

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#### 4. FIRST AID MEASURES

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##### **Inhalation**

It is unlikely that this product can be inhaled in the supplied form.

##### **Ingestion**

It is unlikely that this product can be ingested in the supplied form.

##### **Skin**

It is unlikely that this product will cause irritation to the skin in the supplied form. Wash affected area thoroughly with soap and water.

##### **Eye**

It is unlikely that this product will enter the eye(s) in the supplied form. If steel splinters enter the eye, obtain medical attention immediately.

##### **First Aid Facilities**

Eyewash and normal washroom facilities.

##### **Advice to Doctor**

Treat symptomatically.

##### **Other Information**

For advice in an emergency, contact a Poisons Information Centre or a doctor at once.

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#### 5. FIRE FIGHTING MEASURES

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##### **Suitable Extinguishing Media**

Use appropriate fire extinguisher for surrounding environment.

##### **Hazards from Combustion Products**

Non combustible material. Some parts of the packaging are combustible.

##### **Specific Hazards**

When burnt or overheated the product and packaging may release combustion products including carbon monoxide and metallic oxides.

##### **Decomposition Temperature**

Not available

##### **Precautions in connection with Fire**

Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) operated in positive pressure mode and full protective clothing to prevent exposure to vapours or fumes.

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#### 6. ACCIDENTAL RELEASE MEASURES

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##### **Emergency Procedures**

Product should be picked up with suitable lifting equipment. Wear appropriate gloves to avoid cuts when handling.

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#### 7. HANDLING AND STORAGE

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##### **Precautions for Safe Handling**

Product is expected to be formed and post-painted. Product should not be welded or sanded. Product should be picked up with suitable lifting equipment. Wear appropriate gloves to avoid cuts when handling.

Pre-painted steel should not be sanded, ground or otherwise abraded, in any operation that will penetrate the surface coating and create airborne dust. Penetrating or removing the primer layer by sanding or grinding may release dust particles containing strontium chromate. Maintain high standards of personal hygiene ie. washing hands prior to eating, drinking, smoking or using toilet facilities.

##### **Conditions for Safe Storage**

The material as supplied is not known to be hazardous to the environment. Product must be stored and secured to prevent movement during storage and transport. Store in a dry environment to prevent corrosion in storage. For more information on storing this product, refer to the document 'Recommended Practices for Storage and Handling of BlueScope Steel's products' available from BlueScope Steel sales offices and website.

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#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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##### **National Exposure Standards**

No exposure standards have been established for this material, however, the TWA exposure standards for dust not otherwise specified is 10 mg/m<sup>3</sup>. Chromium (VI) Compounds: 0.05 mg/m<sup>3</sup> TWA

TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week.

Source: Safe Work Australia

Any operation, which has the potential of generating particulates including dust or fume, requires a risk assessment to be undertaken. This may require the involvement of an experienced Occupational Hygienist.

##### **Biological Limit Values**

No biological limits allocated.

**Engineering Controls**

Use with good general ventilation. No special ventilation is required for the product as supplied.  
For processing operations that generate dust or fumes, the use of engineering controls may be necessary to maintain air concentrations below the relevant National Exposure Standards.  
Pre-painted steel should not be sanded, ground or otherwise abraded, in any operation that will penetrate the surface coating and create airborne dust. Penetrating or removing the primer layer by sanding or grinding may release dust particles containing strontium chromate. Strontium chromate is classified as a carcinogen category 2 (probably human carcinogen) according to Safework Australia and may be harmful if inhaled

**Respiratory Protection**

Not generally required. If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable filter should be used.  
Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

**Eye Protection**

Safety glasses with side shields, chemical goggles or full-face shield as appropriate should be used. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform to relevant regulations.  
Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.

**Hand Protection**

Appropriate gloves should be worn when handling strip or sheet steel, to avoid cuts from splinters, burrs, sharp edges, and contact with any surface treatments including oils if they are present. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken.  
Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.

**Body Protection**

Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist is recommended.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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**Appearance**

Thin steel coil or sheet with one or more surfaces covered with a polymer layer. One surface may be in various colours.

**Odour**

Not applicable

**Decomposition Temperature**

Not available

**Melting Point**

Base metal: 1500°C (approximate)

**Boiling Point**

Not applicable

**Solubility in Water**

Insoluble

**Specific Gravity**

7.85

**pH Value**

Not applicable

**Vapour Pressure**

Not applicable

**Vapour Density (Air=1)**

Not applicable

**Evaporation Rate**

Not applicable

**Odour Threshold**

Not applicable

**Viscosity**

Not applicable

**Octanol/Water Partition Coefficient**

Not applicable

**Flash Point**

Not applicable

**Flammability**

Non combustible material.

**Auto-Ignition Temperature**

Not applicable

**Kinematic Viscosity**

Not applicable

**Dynamic Viscosity**

Not applicable

**Explosion Limit - Upper**

Not applicable

**Explosion Limit - Lower**  
Not applicable

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## 10. STABILITY AND REACTIVITY

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**Stability and Reactivity**  
Refer to hazardous reactions below

**Chemical Stability**  
Stable under normal conditions of storage and handling.

**Conditions to Avoid**  
None expected, when used as intended.

**Incompatible Materials**  
Strong acids, strong alkalis

**Hazardous Decomposition Products**  
When burnt or overheated the product and packaging may emit carbon monoxide, metallic oxides and other products of combustion.

**Hazardous Reactions**  
Contact of metallic substances with acids and alkalis liberates hydrogen gas.

**Hazardous Polymerization**  
Will not occur.

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## 11. TOXICOLOGICAL INFORMATION

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**Toxicology Information**  
This product has been tested to AS/NZS 4020:2002 'Products for use in contact with drinking water' and meets the requirements of the Australian Drinking Water Guidelines.

**Inhalation**  
It is unlikely that this product can be inhaled in the supplied form. Inhalation of product vapours may cause irritation of the nose, throat and respiratory system.

**Ingestion**  
It is unlikely that this product can be ingested in the supplied form.

**Skin**  
It is unlikely that this product will cause irritation to the skin in the supplied form.

**Eye**  
It is unlikely that this product will enter the eye(s) in the supplied form.

**Chronic Effects**  
None expected, when used as intended.

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## 12. ECOLOGICAL INFORMATION

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**Ecotoxicity**  
No ecological data available for this material.

**Persistence / Degradability**  
Not available

**Mobility**  
Not available

**Bioaccumulative Potential**  
Not available

**Environmental Protection**  
The material as supplied is not known to be hazardous to the environment.

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## 13. DISPOSAL CONSIDERATIONS

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**Disposal Considerations**  
This product and packaging can be recycled. If not recycled, any disposal of waste product should be in accordance with local regulations.

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## 14. TRANSPORT INFORMATION

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**Transport Information**  
Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)  
Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.  
Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

**IMDG Marine Pollutant**  
No

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## 15. REGULATORY INFORMATION

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### Regulatory Information

Not classified as Hazardous according to criteria of Safe Work Australia.  
REGULATION (EC) No 1907/2006 (REACH) Article 7.1 - Not Applicable  
REGULATION (EC) No 1907/2006 (REACH) Article 7.2 - Not Applicable  
REGULATION (EC) No 1907/2006 (REACH) Article 33 - Not Applicable

### Poisons Schedule

Not classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).  
Manufactured in accordance with Appendix 1, Uniform Paint standard of the SUSMP

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## 16. OTHER INFORMATION

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### Date of preparation or last revision of MSDS

SDS Created: December 2012

### Other Information

AQUAPLATE® is a registered trademark of BlueScope Steel Limited

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End of MSDS

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