1. IDENTIFICATION

GHS Product Identifier
PRE-PAINTED STEEL STRIP AND SHEET

Company Name
BlueScope Steel Limited (ABN16 000 011 058)

Address
Level 11, 120 Collins St Melbourne
VIC 3000 Australia

Telephone/Fax Number
Telephone: 1800800789 (Australia Only)

Emergency phone number
02 4275 7522 (24h)

E-mail Address
steeldirect@bluescopesteel.com

Recommended use of the chemical and restrictions on use
Metal fabrication, packaging and sign writing

Other Names

<table>
<thead>
<tr>
<th>Name</th>
<th>Product Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXTERIOR PEARLESCENT ROOFING PRE-PAINTED STEEL, EXTERIOR MANUFACTURED ARTICLES PRE-PAINTED STEEL, EXTERIOR HOT WATER PRE-PAINTED STEEL, SFP, EXTERIOR PEARLESCENT FENCING PREPAINTED STEEL,</td>
<td></td>
</tr>
<tr>
<td>SUPERIOR GLOSS ARTICLES PRE-PAINTED STEEL, INTERIOR FURNITURE &amp; SHELVING PRE-PAINTED STEEL, SIGN WRITING PANEL PRE-PAINTED STEEL, GENERAL MANUFACTURED ARTICLES PRE-PAINTED STEEL, INTERLINE PRE-PAINTED STEEL, LAB PANEL MATERIAL</td>
<td></td>
</tr>
</tbody>
</table>

Disclaimer
This SDS summarises to BlueScope Steel Limited’s (BSL) best knowledge at the date of issue, the health and safety hazards of the relevant materials. As BSL is not aware of and can’t control the conditions under which the material may be used, each user is responsible for making their own assessment of the appropriateness of the material for their planned use and to implement appropriate controls.

2. HAZARD IDENTIFICATION

GHS classification of the substance/mixture
Not classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) including Work, Health and Safety Regulations, Australia..
Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

Precautionary statement – Prevention
P260 Do not breathe dust/fume.
P280 Wear protective gloves/protective clothing/eye protection.
3. COMPOSITION/INFORMATION ON INGREDIENTS

Information on Composition
Steel strip with either a hot dipped zinc or aluminium/zinc/magnesium alloy coating and a painted surface.

Ingredients

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS</th>
<th>Proportion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steel</td>
<td>12597-69-2</td>
<td>100 %</td>
</tr>
<tr>
<td>Metallic Coating</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aluminium zinc magnesium alloy coating</td>
<td>7429-90-5</td>
<td>47-57 %</td>
</tr>
<tr>
<td>Magnesium</td>
<td>7439-95-4</td>
<td>1-3 %</td>
</tr>
<tr>
<td>Silicon</td>
<td>7440-21-3</td>
<td>&lt;2 %</td>
</tr>
<tr>
<td>Zinc</td>
<td>7440-66-6</td>
<td>Balance</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Zinc Coating</td>
<td></td>
<td>275-450g/m2 total both sides</td>
</tr>
<tr>
<td>Aluminium</td>
<td>7429-90-5</td>
<td>&lt;0.5 %</td>
</tr>
<tr>
<td>Antimony</td>
<td>7440-36-0</td>
<td>&lt;0.2 %</td>
</tr>
<tr>
<td>Zinc</td>
<td>7440-66-6</td>
<td>Balance</td>
</tr>
<tr>
<td>Chemical Treatment</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hexavalent Chromium Compounds</td>
<td>Mixture</td>
<td>Max 30mg/m2 per side</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fluorotitanium complex</td>
<td></td>
<td>&lt;15mg/m2 of Ti per side</td>
</tr>
<tr>
<td>Painted Finish:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Primer:</td>
<td></td>
<td>5 micron per side</td>
</tr>
<tr>
<td>Strontium chromate</td>
<td>7789-06-2</td>
<td>&lt;15% of primer layer</td>
</tr>
<tr>
<td>Less than 5% chromium in dry film</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AND</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Top/Backing Coat:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Various paint systems</td>
<td>Mixture</td>
<td>~5-25 micron per side</td>
</tr>
<tr>
<td>no hazardous substances</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Products protected with CORSTRIP® film only</td>
<td>Polyethylene film</td>
<td>45 +/- 5 micron</td>
</tr>
</tbody>
</table>

4. FIRST-AID MEASURES

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 contact
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.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media
Use appropriate fire extinguisher for surrounding environment.

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

Specific Hazards Arising From The Chemical
Base metal is non-combustible. However, under fire conditions, material may decompose and/or burn. Some parts of the packaging are combustible.

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.

6. ACCIDENTAL RELEASE MEASURES

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

7. HANDLING AND STORAGE

Precautions for Safe Handling
Product is expected to be formed, fastened and cut. Product should not be welded or sanded. Product should be picked up with suitable lifting equipment. Wear appropriate gloves to avoid cuts when handling. Sanding or grinding to expose or remove the primer layer may release particles containing strontium chromate, therefore such actions should be avoided to prevent the creation of airborne dust.

Maintain high standards of personal hygiene i.e. washing hands prior to eating, drinking, smoking or using toilet facilities.

Conditions for safe storage, including any incompatibilities
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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limit values
No exposure standards have been established for this material, however, the TWA exposure standards for dust not otherwise specified is 10 mg/m³.

Chromium (VI) Compounds: 0.05 mg/m³ 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.

**Appropriate Engineering Controls**

Use with good general ventilation. No special ventilation is required for the product as supplied.

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 1 (Known or presumed human carcinogens) according to Safework Australia.

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.

**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.

9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance**

Thin steel coil or sheet 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**

Not applicable
Vapour Pressure
Not applicable

Vapour Density (Air=1)
Not applicable

Evaporation Rate
Not applicable

Odour Threshold
Not applicable

Viscosity
Not applicable

Partition Coefficient: n-octanol/water
Not applicable

Flash Point
Not applicable

Flammability
Non combustible material.

Auto-Ignition Temperature
Not applicable

Explosion Limit - Upper
Not applicable

Explosion Limit - Lower
Not applicable

Kinematic Viscosity
Not applicable

Dynamic Viscosity
Not applicable

10. STABILITY AND REACTIVITY

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.

Possibility of hazardous reactions
Contact of metallic substances with acids and alkalis liberates hydrogen gas.

Hazardous Polymerization
Will not occur.

11. TOXICOLOGICAL INFORMATION

Toxicology Information
No toxicity data available for this material.

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

**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.

**Respiratory sensitisation**
Not expected to be a respiratory sensitiser.

**Skin Sensitisation**
Not expected to be a skin sensitiser.

**Germ cell mutagenicity**
Not considered to be a mutagenic hazard.

**Carcinogenicity**
Not considered to be a carcinogenic hazard.

**Reproductive Toxicity**
Not considered to be toxic to reproduction.

**STOT-single exposure**
Not expected to cause toxicity to a specific target organ.

**STOT-repeated exposure**
Not expected to cause toxicity to a specific target organ.

**Aspiration Hazard**
Not expected to be an aspiration hazard.

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**12. ECOLOGICAL INFORMATION**

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

**Persistence and degradability**
Not available

**Mobility**
Not available

**Bioaccumulative Potential**
Not available

**Other Adverse Effects**
Not available

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

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**13. DISPOSAL CONSIDERATIONS**

**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**

**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.

U.N. Number
None Allocated

UN proper shipping name
None Allocated

Transport hazard class(es)
None Allocated

Packing Group
None Allocated

UN Number (Air Transport, ICAO)
None Allocated

IATA/ICAO Proper Shipping Name
Not dangerous for conveyance under IATA code

IATA/ICAO Hazard Class
None Allocated

IATA/ICAO Packing Group
None Allocated

IMDG UN No
None Allocated

IMDG Proper Shipping Name
Not dangerous for conveyance under IMO/IMDG code

IMDG Hazard Class
None Allocated

IMDG Pack. Group
None Allocated

IMDG Marine pollutant
No

Transport in Bulk
Not available

Special Precautions for User
Not available

15. REGULATORY INFORMATION

Regulatory information
Not classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) including Work, Health and Safety Regulations, 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 – This product contains strontium chromate

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 Section 7/Appendix I, Paint or Tinters of the SUSMP

16. OTHER INFORMATION

Date of preparation or last revision of SDS
SDS amendment: February 2018

5. Fire-fighting measures
8. Exposure controls/personal protection
15. Regulatory information
References
Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice.
Standard for the Uniform Scheduling of Medicines and Poisons.
Australian Code for the Transport of Dangerous Goods by Road & Rail.
Model Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.
Workplace exposure standards for airborne contaminants.
Adopted biological exposure determinants, American Conference of Industrial Hygienists (ACGIH).
Globally Harmonised System of Classification and Labelling of Chemicals.