



# SAFETY DATA SHEET

## HOT ROLLED STEEL PLATE, STRIP AND SHEET

Infosafe No.: HXH6W  
Version No.: 3.1  
ISSUED Date : 14/08/2015  
ISSUED by: BlueScope Steel Limited

### 1. IDENTIFICATION

**GHS Product Identifier**

HOT ROLLED STEEL PLATE, 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 and manufacturing

**Other Names**

Name	Product Code
Includes Analysis (or Chemistry, Carbon), Formability, Hardness and Structural (or Strength) Grades and Primed Plate. BRIGHTFORM® steel, XLERPLATE® steel, EMBAR™ steel, TRU-SPEC® Coil Plate steel, TUBEFORM® steel and XTRAFORM® steel	

### 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.

P280 Wear protective gloves/protective clothing/eye protection.

**Precautionary statement – Response**

P370 In case of fire and/or explosion do not breathe fumes.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

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#### Information on Composition

Steel plate, strip and sheet products. Steel plate is available with primer on both sides.

#### Ingredients

Name	CAS	Proportion
Base Metal - All Products		-
Steel	12597-69-2	100 %
=====		
Primed plate only:		-
Zinc - Si Rich Primer		20 micron per side
=====		
Surface Treatment (if any)		-
Unpickled products only Surface Scale - Iron Oxides	Mixture of iron oxide	100 %
Pickled and Oiled product only Corrosion inhibiting oil	Mixture	1500mg/m2 Total both sides

### 4. FIRST-AID MEASURES

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#### Inhalation

It is unlikely that this product can be inhaled in the supplied form. If exposed to fumes from welding operations, remove to fresh air.

#### 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

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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 Arising From The Chemical

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.

## **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.

## **7. HANDLING AND STORAGE**

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### **Precautions for Safe Handling**

Product is expected to undergo significant post processing including forming, welding, grinding, blasting, galvanising, painting etc. Product should be picked up with suitable lifting equipment. Wear appropriate gloves to avoid cuts when handling.

If welding primed plate there is a possibility of zinc fume generation.

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 'Guidelines for storage and handling BlueScope products' available from BlueScope sales offices and website.

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

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### **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/m<sup>3</sup>.

Iron oxide (fume): 5 mg/m<sup>3</sup> TWA

Zinc oxide (fume): 5 mg/m<sup>3</sup> TWA; 10 mg/m<sup>3</sup> STEL

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.

STEL (Short Term Exposure Limit): The average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday.

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.

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**

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#### **Appearance**

Steel plate coil or sheet with grey or red appearance

#### **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

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### 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

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### 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.

If welding primed plate there is a possibility of zinc fume generation.

### Skin

It is unlikely that this product will cause irritation to the skin in the supplied form. The surface oil used for corrosion protection may irritate the skin in sensitive individuals.

### 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.

## 12. ECOLOGICAL INFORMATION

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### 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.

## 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.

## 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.

### U.N. Number

None Allocated

### UN proper shipping name

None Allocated

### Transport hazard class(es)

None Allocated

### Packing Group

None Allocated

### IATA/ICAO Packing Group

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

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### 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 – 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 Part 2, Section 7, Appendix I, Paints or Tinters, of the SUSMP

## 16. OTHER INFORMATION

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### Date of preparation or last revision of SDS

SDS amendment: January 2018

#### 1. Identification

SDS Reviewed: August 2015 Supersedes: December 2012

### 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, Safe work Australia.

American Conference of Industrial Hygienists (ACGIH)

Globally Harmonised System of classification and labelling of chemicals.

### Other Information

BRIGHTFORM® steel, XLERPLATE® steel, TRU-SPEC® Coil Plate steel, TUBIFORM® steel and XTRAFORM® steel are registered trademark of BlueScope Steel Limited.

## END OF SDS

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