

# SAFETY DATA SHEET

# 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

#### 1.1 Product identifier

## Product name

Synonyms

## COLD ROLLED STEEL STRIP AND SHEET

INCLUDES ANALYSIS (OR CHEMISTRY, CARBON) GRADES, FORMABLE GRADES (INCLUDING VITREOUS ENAMEL GRADES), HARDNESS GRADES (INCLUDING FULL HARD GRADE), STRENGTH (OR STRUCTURAL) GRADES (INCLUDING CM350-G®) • REDCOR® STEEL

#### 1.2 Uses and uses advised against

Uses METAL FABRICATION AND MANUFACTURING

#### 1.3 Details of the supplier of the product

#### Supplier name BLUESCOPE STEEL LIMITED (ABN 16 000 011 058)

AddressLevel 24, 181 William Street, Melbourne, VIC, 3000, AUSTRALIATelephone1800 800 789 (Australia Only)Emailsteeldirect@bluescopesteel.comWebsitehttp://www.bluescopesteel.com.au

#### 1.4 Emergency telephone numbers

Emergency (

02 4275 7522 (24h)

# 2. HAZARDS IDENTIFICATION

# 2.1 Classification of the substance or mixture

CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA

### Physical Hazards

Not classified as a Physical Hazard

#### **Health Hazards**

Serious Eye Damage / Eye Irritation: Category 2A

#### **Environmental Hazards**

Not classified as an Environmental Hazard

#### 2.2 GHS Label elements

Signal word WARM

Pictograms



Hazard statements H319

Causes serious eye irritation.

#### Prevention statements

P260	Do not breathe dust/fume.
P264	Wash thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.



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#### **Response statements**

P305 + P351 + P338

P337 + P313

do. Continue rinsing. If eye irritation persists: Get medical advice/attention. In case of fire and/or explosion: Do not breathe fumes.

P370

#### Storage statements

None allocated.

#### **Disposal statements**

None allocated.

#### 2.3 Other hazards

The GHS classification has been derived from a removable oil layer, which is a part of the protective coating layer on the steel. The steel, and the bound, remaining coated layers are not classified as hazardous.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

# 3. COMPOSITION/ INFORMATION ON INGREDIENTS

#### 3.1 Substances / Mixtures

Ingredient	CAS Number	EC Number	Content
BASE METAL	·		
STEEL, comprised of:	12597-69-2	-	100%
IRON	7439-89-6	231-096-4	97 to 99%
MANGANESE	7439-96-5	231-105-1	<2%

SURFACE TREATMENT - ALL PRODUCTS			
FULL HARD GRADES ONLY:			
RESIDUAL ROLLING OILS - MIXTURE OF SYNTHETIC ESTER BASED ROLLING OIL	Mixture	Mixture	Max 300 mg/m <sup>2</sup> total both sides
OTHER GRADES:			
RESIDUAL SODIUM NITRITE	7632-00-0	231-555-9	Max 13 mg/m <sup>2</sup> total both sides
AND	-	-	-
ONLY ON OILED PRODUCTS:	1	I	1
CORROSION INHIBITING OIL	Mixture	Mixture	Max 1500 mg/m <sup>2</sup> total both sides

Ingredient Notes Removable oil layer: Contains sodium nitrite (<1%); ethylene glycol (<1%); triazine triethanol (< 0.5%); benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts (<3%) and hydrocarbon liquid.

# 4. FIRST AID MEASURES

#### 4.1 Description of first aid measures

**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.

- 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.
- 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.
- Ingestion It is unlikely that this product can be ingested in the supplied form. Contact with removable oil: If in eyes, hold eyelids apart and flush the eyes continuously with running water. Remove contact lenses. Continue flushing for several minutes until all contaminants are washed out completely. Seek medical attention.
- First aid facilities Eye wash facilities and normal washroom facilities should be available.

#### 4.2 Most important symptoms and effects, both acute and delayed

See Section 11 for more detailed information on health effects and symptoms.

#### 4.3 Immediate medical attention and special treatment needed

Treat symptomatically.

## 5. FIRE FIGHTING MEASURES

#### 5.1 Extinguishing media

Use an extinguishing agent suitable for the surrounding fire.

#### 5.2 Special hazards arising from the substance or mixture

Base metal is non-combustible. However, under fire conditions, material may decompose and/or burn. Some parts of the packaging are combustible. When burnt or overheated the product and packaging may release combustion products including carbon monoxide and metallic oxides.

#### 5.3 Advice for firefighters

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.

#### 5.4 Hazchem code

None allocated.

# 6. ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures

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

#### 6.2 Environmental precautions

Prevent product from entering drains and waterways.

#### 6.3 Methods of cleaning up

If spilt, collect and reuse where possible.

#### 6.4 Reference to other sections

See Sections 8 and 13 for exposure controls and disposal.

# 7. HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

Product is expected to undergo significant post processing including forming, welding, grinding, cutting and painting. Product should be picked up with suitable lifting equipment. Wear appropriate gloves to avoid cuts when handling. Maintain high standards of personal hygiene i.e. washing hands prior to eating, drinking, smoking or using toilet facilities.

#### 7.2 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 of BlueScope products' available from BlueScope Steel sales offices and website.

#### 7.3 Specific end uses

No information provided.

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### 8.1 Control parameters

**Exposure standards** 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.

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>.

Ingredient	Reference	TWA		STEL	
ingredient	Kelefence		mg/m³	ppm	mg/m³
Iron oxide fume (Fe2O3) (as Fe)	SWA [AUS]		5		
Manganese, fume (as Mn)	SWA [AUS]		1		3



### **Biological limits**

No biological limit values have been entered for this product.

8.2 Exposure co Engineering con	
PPE	
Eye / Fac	e 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.
Hands	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	Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist is recommended.
Respirato	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.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information on basic physical and chemical properties

Appearance THIN STEEL COIL OR SHEET WITH SILVER GREY APPEARANCE

,	
Odour	NOT APPLICABLE
Flammability	NON FLAMMABLE
Flash point	NOT APPLICABLE
Boiling point	NOT AVAILABLE
Melting point	Base metal: 1500°C (Approximately)
Evaporation rate	NOT APPLICABLE
рН	NOT APPLICABLE
Vapour density	NOT APPLICABLE
Relative density	7.85
Solubility (water)	INSOLUBLE
Vapour pressure	NOT APPLICABLE
Upper explosion limit	NOT APPLICABLE
Lower explosion limit	NOT APPLICABLE
Partition coefficient	NOT APPLICABLE
Autoignition temperature	NOT APPLICABLE
Decomposition temperature	NOT AVAILABLE
Viscosity	NOT APPLICABLE
Explosive properties	NOT AVAILABLE
Oxidising properties	NOT AVAILABLE
Odour threshold	NOT APPLICABLE

# **10. STABILITY AND REACTIVITY**

#### 10.1 Reactivity

Refer to 'Hazardous Reactions' below.

#### 10.2 Chemical stability

Stable under recommended conditions of storage and handling.

#### 10.3 Possibility of hazardous reactions

Hazardous polymerisation will not occur. Contact of metallic substances with acids and alkalis liberates hydrogen gas.

#### 10.4 Conditions to avoid

None expected, when used as intended.

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#### 10.5 Incompatible materials

Incompatible with acids (e.g. nitric acid) and alkalis (e.g. sodium hydroxide).

## 10.6 Hazardous decomposition products

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

# 11. TOXICOLOGICAL INFORMATION

## 11.1 Information on toxicological effects

Acute toxicity

This product is expected to be of low toxicity. Based on available data, the classification criteria are not met. It is unlikely that this product can be ingested in the supplied form. 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.

#### Information available for the ingredients:

Ingredient		Oral LD50	Dermal LD50	Inhalation LC50
IRON		30000 mg/kg (rat)		
MANGANESE	Ξ	9000 mg/kg (rat)		> 5.14 mg/L/4hrs (rat)
RESIDUAL S	ODIUM NITRITE	85 mg/kg (rat)		5.5 mg/m³/4 hours (rat)
Skin	It is unlikely that this produced the corrosion protection may irr			n. The surface oil used for
Eye	It is unlikely that this prod serious eye irritation. On ey		n the supplied form. For re ause tearing, stinging, blurre	

Sensitisation	Not expected to be a skir	or respiratory	sensitiser
Cononication		rorroopilatory	

- Mutagenicity Not considered to be a mutagenic hazard.
- **Carcinogenicity** Not considered to be a carcinogenic hazard.
- **Reproductive** Not considered to be toxic to reproduction.
- **STOT single** Not expected to cause toxicity to a specific target organ. **exposure**
- **STOT repeated** Not expected to cause toxicity to a specific target organ.
- Aspiration Not expected to be an aspiration hazard.

# **12. ECOLOGICAL INFORMATION**

#### 12.1 Toxicity

exposure

No ecological data available for this material.

#### 12.2 Persistence and degradability

Not available.

#### 12.3 Bioaccumulative potential

Not available.

# 12.4 Mobility in soil

Not available.

### 12.5 Other adverse effects

Not available.

# 13. DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

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

Legislation Dispose of in accordance with relevant local legislation.

## 14. TRANSPORT INFORMATION

### NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE, IMDG OR IATA

	LAND TRANSPORT (ADG)	SEA TRANSPORT (IMDG / IMO)	AIR TRANSPORT (IATA / ICAO)
14.1 UN Number	None allocated.	None allocated.	None allocated.
14.2 Proper Shipping Name	None allocated.	None allocated.	None allocated.
14.3 Transport hazard class	None allocated.	None allocated.	None allocated.
14.4 Packing Group	None allocated.	None allocated.	None allocated.

14.5 Environmental hazards

Not a Marine Pollutant.

14.6 Special precautions for user

Hazchem code None allocated.

## **15. REGULATORY INFORMATION**

15.1 Safety, health ar	d environmental regulations/legislation specific for the substance or mixture
Poison schedule	Classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - S5. Manufactured in accordance with Part 2, Section 7, Appendix I, Paints or Tinters, of the SUSMP.
	The Poison schedule classification has been derived from a removable oil layer, which is a part of the protective coating layer on the steel.
Classifications	Safe Work Australia criteria is based on the Globally Harmonised System (GHS) of Classification and Labelling of Chemicals (GHS Revision 7).
Inventory listings	AUSTRALIA: AIIC (Australian Inventory of Industrial Chemicals) All components are listed on AIIC, or are exempt.
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



# **16. OTHER INFORMATION**

Additional information	SDS reviewed	d: October 2024. Supercedes: August 2024.			
	BRIGHTFORM®, XLERPLATE®, TRU-SPEC®, TUBEFORM®, REDCOR®, XTRAFORM® BlueScope and the BlueScope brand mark are registered trademarks of BlueScope Steel Limited. DISCLAIMER:				
	health and sa conditions ur assessment	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.			
	employed to selection an uncomfortable	RS: In general the use of respirators should be limited and engineering controls avoid exposure. If respiratory equipment must be worn ensure correct respirator d training is undertaken. Remember that some respirators may be extremely e when used for long periods. The use of air powered or air supplied respirators should d where prolonged or repeated use is necessary.			
	EXPOSURE work period o shifts exists t exposure star	STANDARDS - TIME WEIGHTED AVERAGE (TWA) or WES (WORKPLACE STANDARD) (NZ): Exposure standards are established on the premise of an 8 hour of normal intensity, under normal climatic conditions and where a 16 hour break betweer o enable the body to eliminate absorbed contaminants. In the following circumstances, indards must be reduced: Strenuous work conditions; hot, humid climates; high altitude extended shifts (which increase the exposure period and shorten the period or			
	PERSONAL PROTECTIVE EQUIPMENT GUIDELINES: The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as form of product, method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.				
	It should be including: for measures; pi prepare a re	ECTS FROM EXPOSURE: noted that the effects from exposure to this product will depend on several factors m of product; frequency and duration of use; quantity used; effectiveness of contro rotective equipment used and method of application. Given that it is impractical to port which would encompass all possible scenarios, it is anticipated that users will sks and apply control methods where appropriate.			
Abbreviations	ACGIH CAS # CNS	American Conference of Governmental Industrial Hygienists Chemical Abstract Service number - used to uniquely identify chemical compounds Central Nervous System			
	EC No.	EC No - European Community Number			
	EMS	Emergency Schedules (Emergency Procedures for Ships Carrying Dangerous Goods)			
	GHS	Globally Harmonized System			
	GTEPG IARC	Group Text Emergency Procedure Guide International Agency for Research on Cancer			
	LC50	Lethal Concentration, 50% / Median Lethal Concentration			
	LD50	Lethal Dose, 50% / Median Lethal Dose			
	mg/m³ OEL	Milligrams per Cubic Metre Occupational Exposure Limit			
	рН	relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline).			
	ppm STEL	Parts Per Million Short-Term Exposure Limit			
	STOT-RE	Specific target organ toxicity (repeated exposure)			
	STOT-SE	Specific target organ toxicity (single exposure)			
	<u></u>				
	SUSMP	Standard for the Uniform Scheduling of Medicines and Poisons Safe Work Australia			
	SUSMP SWA TLV	Standard for the Uniform Scheduling of Medicines and Poisons Safe Work Australia Threshold Limit Value			

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**Report status** 

This document has been compiled by RMT on behalf of the manufacturer, importer or supplier of the product and serves as their Safety Data Sheet ('SDS').

It is based on information concerning the product which has been provided to RMT by the manufacturer, importer or supplier or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer, importer or supplier.

While RMT has taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, RMT accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS.

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