SAFETY DATA SHEET

NEXT GENERATION TRUECORE® STEEL WITH ACTIVATE™ TECHNOLOGY (SILKOTE BLUE)

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1. IDENTIFICATION

GHS Product Identifier
NEXT GENERATION TRUECORE® STEEL WITH ACTIVATE™ TECHNOLOGY (SILKOTE BLUE)

Company Name
BlueScope Steel Limited (ABN 16 000 011 058)

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 building framing

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.

Precautionary statement – Response
P370 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 aluminium zinc magnesium alloy coating and tinted coating

Ingredients

Name	CAS	Proportion
Base Metal		-
Steel	12597-69-2	100 %
==========	==========	==========
Metallic Coating		-
Aluminium Zinc Magnesium Coating		150-165 g/m2 total both sides
Aluminium	7429-90-5	47-57 %
Magnesium	7439-95-4	1-3 %
Silicon	7440-21-3	<2 %
Zinc	7440-66-6	Balance
==========	==========	==========
Surface Treatment		-
Chromium III Compound		70-90 mg/m2 per side
Hexavalent Chromium Compounds	Mixture	Max 30mg/m² per side
Tinted Resin Coating		<5 micron per side

4. FIRST-AID MEASURES

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

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

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 slit, roll formed and otherwise fabricated (may include cutting and welding). Product should be picked up with suitable lifting equipment. Wear appropriate gloves to avoid cuts when handling. If welding this product 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

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.
Aluminium (Metal dust): 5 mg/m³ TWA
Iron oxide (fume): 5 mg/m³ TWA
Magnesium oxide (fume): 10 mg/m³ TWA
Zinc oxide (fume): 5 mg/m³ TWA; 10 mg/m³ STEL
Chromium (VI) compounds: 0.05 mg/m³ TWA
Chromium III Compounds: 0.5 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.
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.
The resin may contain both water soluble and water insoluble chromium (VI) compounds at levels below 0.1%. During slitting or roll forming operations on resin coated product, abrasion and/or excessive drag pad pressure on the steel surface can generate resin dust.
Chromium (VI) is classified as a carcinogen category 2 (probably human carcinogen) according to Safework Australia and may be harmful if inhaled.
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

Properties	Description	Properties	Description
Appearance	Thin steel sheet or coil with a translucent blue tinted coating on a metallic finish	**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. If welding this product 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 treatment used for corrosion protection contains small quantities of chromium (VI) compounds. Prolonged skin contact may lead to chromium sensitisation 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.
The surface treatment used for corrosion protection contains small quantities of chromium (VI) compounds. Prolonged skin contact may lead to chromium sensitisation in sensitive individuals.

Germ cell mutagenicity
Not considered to be a mutagenic hazard.

Carcinogenicity
Not considered to be a carcinogenic hazard.
Chromium (VI) compounds is listed as a Group 1: Carcinogenic to humans according to International Agency for Research on Cancer (IARC).
Chromium (VI) is classified as a carcinogen category 2 (probably human carcinogen) according to Safework Australia and may be harmful if inhaled.

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

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

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

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 – 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

Date of preparation or last revision of SDS
SDS Created: October 2015

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
TRUECORE® steel is a registered trademark of BlueScope Steel Limited.
Activate™ technology is a trademark of BlueScope Steel Limited.

END OF SDS