SAFETY DATA SHEET

HOT ROLLED STEEL PLATE, STRIP AND SHEET

Infosafe No.: LQ9T6
ISSUED Date : 14/11/2019
ISSUED by: New Zealand Steel Ltd

1. IDENTIFICATION

GHS Product Identifier
HOT ROLLED STEEL PLATE, STRIP AND SHEET

Company Name
New Zealand Steel Ltd

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Recommended use of the chemical and restrictions on use
Metal fabrication.

2. HAZARD IDENTIFICATION

GHS classification of the substance/mixture
Not classified as Hazardous according to the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001, New Zealand.
Not classified as Dangerous Goods for transport according to the New Zealand Standard NZS 5433:2012 Transport of Dangerous Goods on Land.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Preparation Description
Base Metal: Low carbon steel (CAS 12597-69-2)
Surface treatment:
This product may be coated with various combinations and therefore has the following substance present on the surface at low levels. Ingredients of the surface treatment include-
Low boiling point hydrogen treated naphtha (CAS 64742-48-9), Refined paraffin wax (CAS 8002-74-2), Base Oil - unspecified (CAS Varies), alkylbenzene (CAS Proprietary), Calcium dinonylnapthalene sulphonate (CAS 57855-77-3) and 2-[2-(2-butoxyethoxy) ethoxy]ethanol (143-22-6).

4. FIRST-AID MEASURES

Inhalation
Not considered a potential route of exposure. However, if inhaled, remove affected person from contaminated area. Keep at rest until recovered. If symptoms develop and/or persist seek medical attention.

Ingestion
Unlikely due to form of product. However, if ingested, do not induce vomiting. Wash out mouth thoroughly with water. If symptoms develop seek medical attention.

Skin
Wash affected area thoroughly with soap and water. If symptoms develop seek medical attention.

Eye contact
Unlikely due to form of product. If dust or splinters enter 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. If symptoms develop and/or persist seek medical attention.

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 (0800 764 766).

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media
Use extinguishing media appropriate for surrounding fire.

Hazards from Combustion Products
On burning, the surface coatings and some components of the packaging will emit carbon dioxide, carbon monoxide, sulphur oxides, metal oxide/oxides and other products of combustion.

Specific Hazards Arising From The Chemical
This product is not combustible. The surface coatings and some components of the packaging are combustible.

Decomposition Temperature
Not available

Precautions in connection with Fire
Fire fighters should wear full protective clothing and self-contained breathing apparatus (SCBA) operated in positive pressure mode. Fight fire from safe location.

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures
Wear appropriate personal protective equipment and clothing to prevent exposure. Collect the material immediately and place into a suitable labelled container. Dispose of waste according to the applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water and waste management authorities in accordance with local regulations.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Avoid exposure. Use only in a well ventilated area. Keep containers tightly closed. Prevent the build up of dusts, mists or vapours in the work atmosphere. Maintain high standards of personal hygiene i.e. Washing hands prior to eating, drinking, smoking or using toilet facilities. When handling, do not eat drink or smoke. Ensure that the product is undamaged and in it's original packaging. Ensure correct lifting posture when handling heavy packages. Limit handling and movement of the product and unnecessary personal contact.

Product should not be sanded, ground, or otherwise abraded, in any operation which will penetrate the top coat and create airborne dust. Always use respiratory protective equipment during sanding, grinding or welding operations where dust or fumes are likely.

Conditions for safe storage, including any incompatibilities

Store the product in its original sealed package or container in a cool, dry, low humidity environment and in compliance with any local or national regulations. Do not store with incompatible materials and ensure that the product is protected from physical damage while in storage.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limit values

No exposure standards have been established for the mixture. However, over-exposure to some chemicals may result in enhancement of pre-existing adverse medical conditions and/or allergic reactions and should be kept to the least possible levels.

Biological Limit Values

No biological limits allocated.

Appropriate Engineering Controls

None required, when used as intended.

Respiratory Protection

None required, when used as intended. Always use respiratory protective equipment during sanding, grinding or welding operations where dust or fumes are likely. If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable dust/particulate filter should be used. Reference should be made to Australian/New Zealand 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

Not required under normal conditions of use. 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 should conform with Australian/New Zealand Standard AS/NZS 1337 (series) - 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. Chemical resistant apron is recommended where large quantities are handled.

9. PHYSICAL AND CHEMICAL PROPERTIES

Properties	Description	Properties	Description
Form	Article	**Appearance**	Steel coil or sheet
Odour	Not available	**Decomposition Temperature**	Not available
Melting Point	1500°C for base steel (approximate)	**Boiling Point**	Not available
Solubility in Water	Insoluble	**Specific Gravity**	7.85
pH	Not available	**Vapour Pressure**	Not applicable
Vapour Density (Air=1)	Not applicable	**Evaporation Rate**	Not available
Odour Threshold	Not available	**Viscosity**	Not applicable
Partition Coefficient: n-octanol/water	Not available	**Density**	7850 kg/m³ (bulk)
Flash Point	Not applicable	**Flammability**	Not combustible
Auto-Ignition Temperature	Not applicable	**Explosion Limit - Upper**	Not applicable
Explosion Limit - Lower	Not applicable		

10. STABILITY AND REACTIVITY

Chemical Stability
Stable under normal conditions of storage and handling.

Reactivity and Stability
Not available

Conditions to Avoid
Not available

Incompatible materials
Strong acids, may react with acids, producing hydrogen gas.

Hazardous Decomposition Products
On burning, the surface coatings and some components of the packaging will emit carbon dioxide, carbon monoxide, sulphur oxides, metal oxide/oxides and other products of combustion.

Possibility of hazardous reactions
Not available

Hazardous Polymerization
Will not occur.

11. TOXICOLOGICAL INFORMATION

Toxicology Information
No toxicity data is available for this specific product.

Ingestion
Ingestion is unlikely due to the form of the product.

Inhalation
Inhalation hazard is not anticipated with normal use. Dust and fume from sanding, grinding and welding operations may irritate nose, throat and lungs, especially in people with sensitivity to chest complaints such as asthma.

Skin
Skin contact may cause irritation resulting in redness and itching. The surface oil used for corrosion protection may irritate the skin in sensitive individuals.

Eye
Unlikely due to form of product. Eye contact with dust may cause irritation and result in mild abrasion.

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

Ecotoxicity
No toxicity data available for this material.

Persistence and degradability
Not available

Mobility
Not available

Bioaccumulative Potential
Not available

Other Adverse Effects
Not available

Environmental Protection
Prevent this material entering waterways, drains and sewers.

13. DISPOSAL CONSIDERATIONS

Disposal considerations
Product Disposal:
The product can be recycled. This product can be disposed through a licensed commercial waste collection service. This product is non-hazardous and therefore the New Zealand HSNO regulations regarding disposal do not apply, however other regulations may apply.

As the product is a non-hazardous solid substance, it can be disposed in a licensed landfill facility after authorization.

Container Disposal:
The product is non-hazardous, therefore, the packaging may be re-used or recycled if it has been treated to remove any residual contents of the substance. Any wash-off water from the container cleaning process should be sent to a suitable waste water treatment plant before discharge into the environment.

In New Zealand, the packaging (that may or may not contain any residual substance) that is lawfully disposed of by householders or

other consumers through a public or commercial waste collection service is a means of compliance with regulations.

14. TRANSPORT INFORMATION

Transport Information
Road and Rail Transport (New Zealand):
Not classified as Dangerous Goods for transport according to the New Zealand Standard NZS 5433: 2012 Transport of Dangerous Goods on Land.

Marine Transport (IMO/IMDG):
Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

Air Transport (ICAO/IATA):
Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

U.N. Number
None Allocated

UN proper shipping name
None Allocated

Transport hazard class(es)
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 Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001, New Zealand.

16. OTHER INFORMATION

Date of preparation or last revision of SDS
SDS created: November 2019

References
Workplace Exposure Standards and Biological Exposure Indices.
Transport of Dangerous goods on land NZS 5433.
Preparation of Safety Data Sheets - Approved Code of Practice Under the HSNO Act 1996 (HSNO CoP 8-1 09-06).
Assigning a hazardous substance to a group standard.
Adopted biological exposure determinants, American Conference of Industrial Hygienists (ACGIH).

END OF SDS