

Safety Data Sheet

Infosafe No: LQ9T3
DRAFT Date: 27/10/2022
DRAFT by New Zealand Steel Ltd



GALVSTEEL®

Section 1 - Identification

Product Identifier

GALVSTEEL®

Company Name

New Zealand Steel Ltd

Address

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Private Bag 92121 Auckland
1142 NEW ZEALAND

Telephone/Fax Number

Customer Care Team: +64 9 375 8999

Email

nzsaki.customercareteam@bluescopesteel.com

Recommended uses and any restrictions on use or supply

Metal fabrication, building framing, roofing and wall cladding.

Emergency contact number

0800 697 833 between 8:30 am and 5 pm

Section 2 – Hazard(s) Identification

GHS classification of the substance/mixture

Not classified as Hazardous according to the Hazardous substances (Hazard Classification) Notice 2020, New Zealand.

Not classified as Dangerous Goods for transport according to the New Zealand Standard NZS 5433:2020 Transport of Dangerous Goods on Land.

Section 3 – Composition and Information on Ingredients

Chemical Characterization

Article

Preparation Description

Base Metal: Low carbon steel (CAS 12597-69-2)

Metallic Coating (zinc Coating)

Zinc (CAS 7440-66-6), Antimony (CAS 7440-36-0)

Treatment coating: may contain:

1. a mixture of chromium (III) compounds (CAS 13548-38-4 and CAS 7789-04-0)
2. mixture of corrosion inhibiting oils

Section 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

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

Eye wash 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).

Section 5 – Firefighting Measures

Suitable Extinguishing Media

Use extinguishing media appropriate for surrounding fire.

Hazards from Combustion Products

Non-combustible material.

Specific hazards arising from the chemical

This product is not combustible. In the solid state, it is not considered to be a fire or an explosion hazard.

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.

Section 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 regulation. If contamination of sewers or waterways occurs inform the local water and waste management authorities in accordance with the local regulations.

Section 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 its 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 topcoat and create airborne dust.

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.

Section 8 – Exposure Controls and Personal Protection

Occupational Exposure Limits (OEL)

No exposure value has been assigned for this material. However, the available exposure limits for ingredients are listed below:

Chromium (III) compounds

TWA: 0.5 mg/m³

Antimony and compounds, as Sb

TWA: 0.5 mg/m³

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: Workplace Exposure Standards and Biological Exposure Indices.

Biological Limit Values

Name: Chromium

Determinant: Total Chromium in urine

Specimen: Urine

Value: 0.7 µg/L

Sampling time: End of shift at end of work week

Source: American Conference of Industrial Hygienists (ACGIH)

Appropriate Engineering Controls

None required, when used as intended.

Respiratory Protection

None required, when used as intended.

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 unnecessary 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 metal, 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 the 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.

Thermal Hazards

No further relevant information available.

Body Protection

Suitable protective workwear. E.g. cotton overalls buttoned at the neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled.

Section 9 – Physical and Chemical Properties

Properties	Description	Properties	Description
Form	Article	Appearance	Steel sheet
Colour	Not available	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/m ³ (bulk)	Flashpoint	Not applicable
Flammability	Not combustible	Auto-Ignition Temperature	Not applicable
Explosion Limit – Upper	Not applicable	Explosion Limit - Lower	Not applicable
Particle Characteristics	Not applicable		

Section 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

Not available

Hazardous Decomposition Products

May evolve metal oxides when heated to decomposition.

Possibility of Hazardous Reactions

Not available.

Hazardous Polymerization

Will not occur.

Section 11 – Toxicology 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. Where insufficient ventilation or respiratory protection is available dust or fume from welding operations or dust from sanding or grinding may produce “metal fume fever” in workers from an acute long-term exposure.

Skin

Skin contact may cause irritation resulting in redness and itching.

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.

Chromium (III) compounds is listed as Group 3: Not classifiable as to carcinogenicity to humans according to International Agency for Research on Cancer (IARC).

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.

Section 12 – Ecological Information

Ecotoxicity

No toxicity data available for this material

Persistence and degradability

Not available

Mobility

Not available

Bio accumulative Potential

Not available

Other Adverse Effects

Not available

Environmental Protection

Prevent this material entering waterways, drains and sewers.

Hazardous to the Ozone Layer

This product is not expected to deplete the ozone layer.

Section 13 – Disposal Considerations

Disposal considerations

Product Disposal:

This product can be disposed through a licensed commercial waste collections 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 facility after authorisation.

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 wastewater 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 commercial waste collection service is a means of compliance with regulations.

Section 14 – Transport Information

Transport Information

Not classified as Dangerous Goods for transport according to the NZS 5433:2020 Transport of Dangerous Goods on Land.

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

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

UN Number

None allocated

Proper Shipping Name

None Allocated

Hazard Class

None Allocated

Special Precautions for User

Not available

IMDG Marine Pollutant

No

Transport in Bulk

Not Available

Section 15 – Regulatory Information

Regulatory Information

Not classified as hazardous according to the Hazardous Substances (Hazard Classification) Notice 2020, New Zealand.

Tolerable Exposure Limit (TEL)

Not Available

Environmental Exposure Limit (EEL)

Not Available

Certified Handler

Not Available

Tracking

Not Available

Controlled Substance Licence Requirements

Not Available

Montreal Protocol

Not Listed

Stockholm Convention

Not Listed

Rotterdam Convention

Not Listed

Agricultural Compounds, including Veterinary Medicines (ACVM)

Not Available

Section 16 – Any Other Relevant Information

Date of preparations of last revision of SDS

SDS Reviewed: October 2022 Supersedes: November 2019

Literature References

Hazardous Substances and New Organisms Act (1996).

Health and Safety at Work (Hazardous Substances) Regulations (2017).

Workplace Exposure Standards and Biological Exposure Indices.

Agricultural Compounds and Veterinary Medicines Act (1997).

Montreal Protocol on Substances that Deplete the Ozone Layer.

Stockholm Convention on Persistent Organic Pollutants (POPs).

Rotterdam Convention on the Prior Informed Consent Procedure for Certain Hazardous Chemicals and Pesticides in International Trade.

Transport of Dangerous goods on Land NZS 5433.

Recommendations on the transport of Dangerous Goods – Model Regulations.

Dangerous Goods Emergency Action Code List.

Hazardous Substances (Safety Data Sheets) Notice (2017). (EPA Consolidation)

Assigning a hazardous substance to a group standard.

Adopted biological exposure determinants, American Conference of Industrial Hygienists (ACGIH).

END OF SDS

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