MATERIAL SAFETY DATA SHEET

Zinc Coated Steel Strip, Sheet and Pipe

SECTION 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product name: **Zinc Coated Steel Strip, Sheet and Pipe**

SECTION 2: HAZARDS IDENTIFICATION

STATEMENT OF HAZARDOUS NATURE: The products as supplied are classified as **Non Hazardous** according to the criteria of the Australian Safety and Compensation Council ASCC (formerly National Occupational Health and Safety Commission -NOHSC) Approved Criteria For Classifying Hazardous Substances [NOHSC:1008] 3rd Edition. **Non-Dangerous Goods.**

Cutting, grinding burning or welding **Zinc Coated Steel Strip, Sheet and Pipe** may result in fumes from the coating on the product together with other materials e.g. welding rod, present in the burning area. Fumes from hot work are classified as **Hazardous.**

The following Risk and Safety phrases apply ONLY to hot work fumes given off from cutting, welding, grinding, and burning of these products:

Risk Phases (applicable to fumes from hot work)	Safety Phases
R20: Harmful by inhalation.	**S36/37/39**: Wear suitable protective clothing, gloves and eye/face protection.
R36/37: Irritating to eyes and respiratory system.	

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name:	Proportion:	CAS Number:
Zinc (as Zinc coating)	1-20%	7440-66-6
Iron (steel)	>80% (balance)	7439-89-6

The zinc coating on this product may contain traces of Aluminium, Antimony, Iron, Lead.
As a result of various anti-corrosion treatments, the surface of this product may have traces of Hexavalent chromium (CrVI), Zinc phosphate, and Mineral Oil.

SECTION 4: FIRST AID MEASURES

In the form supplied, the product will not produce any health effects and First Aid measures are not likely to be required.
Fumes from cutting, grinding burning or welding **Zinc Coated Steel Strip, Sheet and Pipe** may result in health effects (see Section 11) and the following First Aid measures apply:

Swallowed: Not applicable.
Eye: If irritation occurs seek medical attention.
Skin: If irritation occurs seek medical attention. Wash contaminated skin with soap and water.
Inhaled: If exposed to metal fume from welding or similar operations, move to fresh air immediately. Seek medical attention if breathing problems occur.
Advice to Doctor: Be aware of risk of respiratory distress, asthma and pneumonitis and metal fume fever following exposure to fumes from cutting, welding, grinding or burning.

SECTION 5: FIRE FIGHTING MEASURES

Flammability: Not flammable
Suitable extinguishing media: Not specific
Hazards from combustion products: See notes (Section 11) regarding cutting, welding grinding or burning Zinc Coated Steel Strip, Sheet and Pipe. This product can react with mineral acids and alkalis liberating explosive hydrogen gas. Stibine may be generated on reaction with acids in some circumstances.
Special protective precautions and equipment for fire fighters: None, precautions dependent on surrounding fire and fire conditions.
Hazchem Code: None allocated

SECTION 6: ACCIDENTAL RELEASE MEASURES

Spills: No special requirements.

SECTION 7: HANDLING AND STORAGE

Storage: No special requirements.
Incompatibilities: This product can react with mineral acids and alkalis liberating explosive hydrogen gas. If zinc coatings are dissolved in acid, stibine gas (CAS No:7803-52-3) may be generated.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Standards: No Exposure Standard established for this product.

During cutting, welding, grinding or similar hot work, the following ASCC/NOHSC National Exposure Standards apply:

Zinc oxide fume: 5 mg/m^3 TWA, 10 mg/m^3 STEL.
Iron III oxide fume: 5 mg/m^3 TWA

The ASCC NOHSC exposure standard for stibine is 0.51 mg/m^3 TWA.
Chromium VI (hexavalent): 0.05 mg/m^3 - sensitiser.

Engineering Controls: No special requirements.
Ventilation: Welding or similar operations may require local ventilation.

Personal Protection
Skin Protection: Leather gloves should be worn to avoid physical injury.
Eye Protection: Wear goggles or other appropriate eye protection when working with this product.
Respiratory Protection: No special requirements needed.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Thin sheet or coil with metallic silver appearance
Odour:	None
pH, at stated concentration:	Not applicable
Vapour pressure:	Not applicable
Vapour Density:	Not applicable
Boiling Point/range:	Not applicable
Freezing/Melting Point:	Zinc surface mp 419°C. Iron mp 1535°C
Solubility in water:	Insoluble
Specific gravity: (H2O = 1)	7.86
Evaporation Rate:	Not applicable
Flammability Limits:	Not Flammable
Flash Point:	Not applicable
Explosive Properties:	This product can react with mineral acids and alkalis liberating explosive hydrogen gas.

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability: Stable
Incompatible Materials: This product can react with mineral acids and alkalis liberating explosive hydrogen gas. Stibine (toxic) may be generated on reaction with acids in some cases.
Conditions to avoid: None
Hazardous Decomposition products: None
Hazardous Polymerisation: None

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity: As supplied, the product is stable and virtually non-toxic. However, cutting, grinding burning or welding Zinc Coated Steel Strip, Sheet and Pipe may result in fumes being generated, from the coating on the product together with other materials e.g. welding rod, present in the burning area. Fumes from hot work are classified as **Hazardous.** If zinc coatings are dissolved in acid, stibine gas (CAS No:7803-52-3) may be generated.

Health Effects caused by fumes coming from cutting welding grinding or burning of Zinc Coated Steel Strip, Sheet and Pipe

Acute (short term):

Swallowed: Unlikely
Skin: Skin is normally covered during hot operations and no effects of fumes on skin are reported.
Eye: Fumes may cause irritation with redness and watering.
Inhaled: Fumes from hot work may give rise to metal fume fever (zinc fume fever) and irritation of the lungs and may cause pneumonitis.

Chronic (long term): No chronic health effects expected.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: No data available
Persistence and degradability: No data available
Mobility in soil: No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

Recover waste material, recycle, or dispose of in accordance with local authority guidelines.

SECTION 14: TRANSPORTATION INFORMATION

UN number: None allocated
Class: None allocated
Subsidiary Risk 1: None allocated
Packaging Group: None allocated
Hazchem code: None allocated
DG Class: None allocated
EPG: None
Incompatibilities: This product can react with mineral acids and alkalis liberating explosive hydrogen gas. Stibine (toxic) may be generated on reaction with acids in some cases.
Proper Shipping Name: None allocated
Marine Pollutant: No

SECTION 15: REGULATORY INFORMATION

Classification: **Non Hazardous Non-Dangerous Goods.**
Hazard Symbol: None allocated
Poisons Schedule: None scheduled

SECTION 16: OTHER INFORMATION

Poisons Information Centre 13 11 26

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