

SAFETY DATA SHEET

ORRCON YARD RAIL & DESIGN RAIL ALLGAL OR PREGAL CLEARTEC COATED

Infosafe No.: MTD4
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ISSUED by: ORRCON MANUFACTURING PTY
LTD

1. IDENTIFICATION

GHS Product Identifier

ORRCON YARD RAIL & DESIGN RAIL ALLGAL OR PREGAL CLEARTEC COATED

Company Name

ORRCON MANUFACTURING PTY LTD

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Recommended use of the chemical and restrictions on use

Used in a variety of construction applications.

Grade C250L0, C350L0, C450L0

Other Names

| Name | Product Code |
|--|--------------|
| Electro-galvanised or Pregalvanized clear coated steel hollow sections | |
| Electro-galvanised or Pregalvanized clear coated steel tube | |
| Electro-galvanised or Pregalvanized clear coated steel pipe | |
| Electro-galvanised or Pregalvanized clear coated steel flat oval | |
| Structural Allgal or Pregal Zinc coated, clear coated tube | |

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)

Other Information

Copper, magnesium, aluminium, antimony, iron, manganese, nickel, zinc (and their compounds) in welding, brazing, galvanising or smelting operations all give rise to thermally produced particulates of smaller dimension than may be produced if the metals are divided mechanically. Where insufficient ventilation or respiratory protection is available these particulates may produce "metal fume fever" in workers from an acute or long term exposure.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

| Name | CAS | Proportion |
|-------------------------------|-----|------------|
| Steel (low carbon, non-alloy) | | >95 % |
| Zinc Coating | | <5 % |
| Acrylic coating | | Balance |

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.

Copper, magnesium, aluminium, antimony, iron, manganese, nickel, zinc (and their compounds) in welding, brazing, galvanising or smelting operations all give rise to thermally produced particulates of smaller dimension than may be produced if the metals are divided mechanically. Where insufficient ventilation or respiratory protection is available these particulates may produce "metal fume fever" in workers from an acute or long term exposure.

- Onset occurs in 4-6 hours generally on the evening following exposure. Tolerance develops in workers but may be lost over the weekend. (Monday Morning Fever)
- Pulmonary function tests may indicate reduced lung volumes, small airway obstruction and decreased carbon monoxide diffusing capacity but these abnormalities resolve after several months.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

- There is no restriction on the type of extinguisher which may be used.
- Use extinguishing media suitable for surrounding area.

Hazards from Combustion Products

Under fire conditions this product may emit toxic and/or irritating fumes and gases.

Specific Hazards Arising From The Chemical

- Non combustible material.
 - Not considered a significant fire risk, however containers may burn.
- Under fire conditions this product may emit toxic and/or irritating fumes, smoke and gases.

Decomposition Temperature

Not applicable

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

Increase ventilation. Evacuate all unprotected personnel. Wear sufficient respiratory protection and full protective clothing to prevent exposure.

- Clean up all spills immediately.
- Secure load if safe to do so.
- Bundle/collect recoverable product.
- Collect remaining material in containers with covers for disposal.

7. HANDLING AND STORAGE

Precautions for Safe Handling

No special handling procedures required.

Conditions for safe storage, including any incompatibilities

STORAGE REQUIREMENTS:

Store flat in load designed racking.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limit values

The available exposure limits for gases/fume that may be formed during welding are listed below:

Welding fumes (not otherwise classified)

TWA: 5 mg/m³

Iron oxide (fume)

TWA: 5 mg/m³

Zinc oxide (dust)

TWA: 10 mg/m³

Zinc oxide (fume)

TWA: 5 mg/m³

Ozone

TWA: 0.1 ppm, 0.2 mg/m³ peak

Nitric oxide

TWA: 25 ppm, 31 mg/m³

Carbon dioxide

TWA: 5000 ppm, 9000 mg/m³

STEL: 30,000 ppm, 54,000 mg/m³

Carbon monoxide

TWA: 30 ppm, 34 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.

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

Biological Limit Values

No biological limits allocated.

Appropriate Engineering Controls

Provide sufficient ventilation to keep airborne levels below the exposure limits. Where fumes/dusts are generated, particularly in enclosed areas, and natural ventilation is inadequate, a local exhaust ventilation system/forced dilution ventilation is required.

Install non-flammable screens and partitions. Use signs to warn that welding is occurring.

Respiratory Protection

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable dust/particulate/fume filter should be used.

Reference should be made to Australian Standards AS/NZS 1715 (2009), Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716 (2012), 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 2 & 6 (2012) - Eye Protectors for Industrial Applications.

Hand Protection

Wear gloves of impervious material. Final choice of appropriate gloves will vary according to individual circumstances. i.e. methods of handling or according to risk assessments undertaken. Occupational protective gloves should conform to relevant regulations.

Reference should be made to AS/NZS 2161.1 (2016): Occupational protective gloves - Selection, use and maintenance.

Footwear

Safety footwear.

9. PHYSICAL AND CHEMICAL PROPERTIES

| Properties | Description | Properties | Description |
|--|-------------------------|-------------------------|--|
| Form | Solid | Appearance | Metallic grey coloured steel tube with a clear coating. |
| Colour | Metallic grey coloured | Odour | Not available |
| Decomposition Temperature | Not applicable | Melting Point | Not available |
| Boiling Point | Not available | Solubility in Water | Immiscible |
| Specific Gravity | Not available (water=1) | pH | Not applicable (1% solution) Not applicable (as supplied) |
| Vapour Pressure | Not applicable | Vapour Density (Air=1) | Not available |
| Evaporation Rate | Not applicable | Odour Threshold | Not available |
| Viscosity | Not applicable | Volatile Component | Not applicable |
| Partition Coefficient: n-octanol/water | Not available | Flash Point | Not applicable |
| Auto-Ignition Temperature | Not applicable | Explosion Limit - Upper | Not applicable |
| Explosion Limit - Lower | Not applicable | | |

10. STABILITY AND REACTIVITY

Reactivity

Not available

Chemical Stability

Stable under normal conditions of storage and handling.

Conditions to Avoid

Extremes of temperature and direct sunlight.

Incompatible materials

Not available

Hazardous Decomposition Products

Thermal decomposition may result in the release of toxic and/or irritating fumes.

Possibility of hazardous reactions

Not available

Hazardous Polymerization

Will not occur

11. TOXICOLOGICAL INFORMATION

Toxicology Information

No toxicity data available for this material.

Ingestion

Generally not applicable.

Inhalation

Not normally a hazard due to physical form of product.
Generated dust may be discomforting.

Skin

May be irritating to skin. The symptoms may include redness, itching and swelling.

Eye

Not normally a hazard due to physical form of product.
Generated dust may be discomforting.

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.

Ferric oxide is listed as a Group 3: Not classifiable as to carcinogenicity to humans according to International Agency for Research on Cancer (IARC).

Iron and steel founding (occupational exposure during) is listed as a Group 1: Carcinogenic 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.

Other Information

Hazard relates to dust released by sawing, cutting, sanding, trimming or other finishing operations.

Welding fume with high levels of ferrous materials may lead to particle deposition in the lungs (siderosis) after long exposure.

This clears up when exposure stops.

12. ECOLOGICAL INFORMATION

Ecotoxicity

No ecological data are 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

The disposal of the spilled or waste material must be done in accordance with applicable local and national regulations.

14. TRANSPORT INFORMATION

Transport Information

Road and Rail Transport (ADG Code):

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

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 Globally Harmonised System of classification and labelling of chemicals (GHS) including Work, Health and Safety regulations, Australia.

Not classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

Poisons Schedule

Not Scheduled

16. OTHER INFORMATION

Date of preparation or last revision of SDS

SDS Reviewed: September 2018, Supersedes: April 2018

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.

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

Globally Harmonised System of classification and labelling of chemicals.

END OF SDS

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