

Safety Data Sheet



These products are not classified as hazardous according to the criteria of ASCC (formerly NOHSC).

1: IDENTIFICATION OF THE PREPARATION AND COMPANY

Product Name: Coated / Lined Steel Pipe and Fittings
Steel Pipe and Fittings with a Range of Coatings / Linings including polyethylene, epoxy, inorganic zinc, organic zinc, acrylic, bitumen and cement mortar.

These products are not classified as hazardous according to the criteria of ASCC (formerly NOHSC).
Non Dangerous Goods according to the Australian Dangerous Goods Code (ADG).

Supplier: Steel Mains Pty Ltd ABN: 73 004 843 056

Street Address: 125- 175 Patullos Lane, Somerton, VIC, 3062 Australia

Telephone: + 613 9217 3110

Facsimile: + 613 0305 3953

Website: www.steelmain.com

Emergency telephone number: For advice, contact a Poisons Information Centre (phone eg Australia 131 126; New Zealand 0800 764 766).

2: COMPOSITION/ INFORMATION ON INGREDIENTS

Ingredient(s)	CAS-number
Steel	
Coating / lining may include the following:	
Epoxy resin	25068-38-8
Epoxy resin	26036-25-3
Epoxy resin	82783-67-7
Polyethylene Coating	9002-88-4
Portland ⁽¹⁾ , blended or calcium aluminate Cement	65997-15-1
Silica (Quartz) ⁽²⁾	14808-60-7
Talc	14807-96-6
Titanium dioxide	13463-67-7
Zinc phosphate	7779-90-0
Bitumen	8052-42-4

⁽¹⁾Cement in Cement Mortar (CML) Lined pipes & fittings contains traces of Chromium VI (hexavalent), <50ppm

⁽²⁾CML may contain respirable crystalline silica, however exposure via inhalation is not anticipated unless dust is generated via cutting, machining, etc

3: HAZARDS IDENTIFICATION

Hazardous Classification: None

Risk Phrase(s): None

Safety Phrase(s): None

Product name: Coated / Lined Steel Pipe and Fittings

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4: FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

Ingestion:

Not applicable.

Inhalation:

Due to product form, an inhalation hazard is not anticipated. However if exposed/discomfort or respiratory irritation occurs to throat, remove to fresh air. Further first aid is unlikely to be required as a result of a brief exposure. Seek medical attention if any symptoms persist. Investigate adequacy of ventilation, particularly when cutting, machining, etc which may generate dust.

Eye Contact:

First aid is unlikely to be required as a result of exposure during normal use. If discomfort occurs when exposed to dust, hold eyelids open and rinse the eye continuously with a gentle stream of clean running water for at least fifteen minutes. Seek medical attention if any symptoms persist.

Skin Contact:

First aid is unlikely to be required as a result of exposure during normal use. For dust exposure, gently rinse affected areas with water. Seek medical attention if irritation develops.

Advice to Doctor:

Treat symptomatically

5: FIRE FIGHTING MEASURES

Combustible solid coating and lining. May generate hazardous fumes if heated to decomposition or burned in a fire situation. In case of fire, wear self-contained breathing apparatus.

Extinguish using whatever is suitable for the primary cause of the fire. Water, carbon dioxide, dry chemical or foam are all suitable for fire fighting

6: ACCIDENTAL RELEASE MEASURE

Spillage and disposal are not applicable – the product is coated / lined steel pipe or fittings.

7: HANDLING AND STORAGE

Storage:

General storage is adequate.

NOTE: Static electricity on Coatings. Coatings may, under exceptional circumstances, acquire a surface charge of static electricity. If this occurs, contact with the coating may lead to a minor electric shock. While not directly injurious, it may startle an unsuspecting person.

Handling:

As suitable to the work in progress. There are no special requirements for handling coated / lined pipes and fittings. For Personal Protective Equipment (PPE), see Section 8.

8: EXPOSURE CONTROLS AND PERSONNEL PROTECTION

Exposure standards: Exposure standards have not been allocated to this product, nor any of the ingredients: Exposure standards represent airborne concentrations of individual chemical substances, which, according to current knowledge, should neither impair the health nor cause undue discomfort to nearly all workers. Exposure standard may be a time-weighted average (TWA), a short-term exposure limit (STEL) or a peak level.

For Dust exposure when cutting, machining, etc of CML, refer below

Ingredient	Reference	TWA		STEL	
		ppm	mg/m ³	ppm	mg/m ³
Portland cement	SWA (AUS)	-	10	-	-
Quartz (respirable dust)	SWA (AUS)	-	0.05	-	-

Engineering Controls:

No engineering requirements for normal handling of pipes. Avoid generating dust when cutting, machining, etc. Use suitable suppression measures such as mechanical ventilation, water suppression. Extraction ventilation may be required for dust / fume control when cutting, grinding, burning, melting and machining of coated pipe or fittings. Maintain dust levels below the recommended exposure standard and where water suppression or extraction is not possible, wear appropriate respiratory PPE

Personal Protection:

Safety goggles, gloves and a suitable P2 respirator with particulate filter should be worn when cutting, machining coated and/or lined pipe and fittings, dependent on a site specific risk assessment.

9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Coated and or lined steel pipe and fittings

Specific gravity (H₂O = 1): Not pertinent

Melting Point: >80°C

Solubility in Water: Nil

Vapour Pressure: Negligible

Vapour density (Air = 1): Not pertinent.

Flash Point: None **Method)** None

Explosive limits (% By Volume in Air): None

% Volatile: None

10: SUITABILITY AND REACTIVITY

Stable under recommended storage and handling conditions (refer to Section 7).

May undergo decomposition if heated strongly. May evolve carbon monoxide, carbon dioxide and oxides of nitrogen.

11: TOXICOLOGICAL INFORMATION

Routes of Entry into the Body

Inhalation of fine particles or fumes generated during machining of the product or similar processes is the route of entry into the body.

Symptoms of Exposure:

Swallowed: Not applicable.

Eye: Any dust or chips generated during pipe cutting may cause temporary irritation or discomfort.

Skin: Any dust or chips generated during pipe cutting may chafe or cause discomfort to sensitive skin.

Sensitisation: Not classified as causing respiratory sensitisation. However, some individuals may exhibit an allergic response upon exposure to cement lining dust, possibly due to trace amounts of chromium.

Carcinogenicity: Fine particles or fumes generated during cutting, grinding, burning melting and machining of coated / lined pipes or fittings may cause headache, dizziness and irritation to the respiratory tract. This product contains crystalline silica which is classified as carcinogenic to humans (IARC Group 1). However, there is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis. Therefore, preventing the onset of silicosis will also reduce the cancer risk. Hexavalent chromium compounds are classified as carcinogenic to humans (IARC Group 1), however due to the trace amounts present, the criteria for classification is not met.

Reproductive: Insufficient data available to classify as a reproductive toxin.

STOT – single exposure: Over exposure to dust (if generated) may result in irritation of the nose and throat, with coughing. High level exposure may result in breathing difficulties

STOT – repeated exposure: Due to the product form, over exposure via inhalation is not anticipated with normal use. However if dust is generated via cutting, grinding, machining, repeated exposure to respirable silica may result in pulmonary fibrosis (silicosis). Silicosis is a fibronodular lung disease caused deposition in the lungs of fine respirable particles of crystalline silica. Principal symptoms of silicosis are coughing and breathlessness.

Aspiration: Not expected to present an aspiration hazard.

12: ECOLOGICAL INFORMATION

Toxicity:

Steel & Coating components may be persistent in the environment. CML may be harmful to the aquatic environment due to the alkaline nature of the product.

Persistence and degradability:

Product is persistent and would have a low degradability.

Bioaccumulative potential:

This product is not expected to bioaccumulate.

Mobility in soil:

A low mobility would be expected in a landfill situation.

Other adverse effects:

Avoid contamination of drains and waterways.

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13: DISPOSAL CONSIDERATION

Waste Disposal: Reuse or recycle where possible. Ensure measures are taken to prevent dust generation. Dispose of to an approved landfill site. Contact the manufacturer/supplier for additional information (if required).

Legislation: Dispose of in accordance with relevant local legislation.

14: TRANSPORT INFORMATION

Proper Shipping Name: Not Applicable

UN Number: None

Transport Hazard Class: None

Packing Group: None

Environmental Hazard:

Hazchem Code: None

15: REGULATORY INFORMATION

Product is not a scheduled poison according to the requirements of the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP)

All ingredients are listed on the Australian Inventory of Chemical Substances (AICS)

16: OTHER INFORMATION

Personal Protective Equipment Guidelines:

The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as form of product, method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

Health Effects From Exposure:

It should be noted that the effects from exposure to this product will depend on several factors including: form of product; frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

User should verify applicability of this data sheet if more than 5 years old.

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