



MATERIAL SAFETY DATA SHEET

Issue date: 21st March, 2007

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: METAL ARMOUR[®] COLD GALVANISING

Company: Tremco Pty Limited ABN 25 000 024 064
Address: Unit 1, 2 Park Road, Rydalmere, New South Wales, 2116
Contact Nos.: Telephone: (02) 9638 2755 Fax: (02) 9638 2955
Emergency Telephone: 1800 224 512 7am to 5pm Monday to Friday inclusive
Product Code: 150460
Recommended Use: Zinc rich coating for protection of iron and steel against corrosion
Other Names: Zinc Rich Paint
Manufacturer's Product Code: BA 1214
Proper Shipping Name: AEROSOLS

2. HAZARDS IDENTIFICATION

CLASSIFIED AS HAZARDOUS ACCORDING TO THE CRITERIA OF THE ASCC. LISTED AS A SCHEDULE 5 POISON ACCORDING TO THE SUSDP. LISTED ON THE AICS. CLASSIFIED AS UN 1950 AEROSOL CLASS 2.1 ACCORDING TO THE ADG CODE. NOT A COMBUSTIBLE LIQUID ACCORDING TO THE CRITERIA OF AS 1940.

Symbols: Xn Harmful

Risk Phrases: R20 Harmful by inhalation
R36/37/38 Irritating to the eyes, respiratory system and the Skin
R48 Danger of serious damage to health by prolonged Exposure
R66 Repeated exposure may cause skin dryness or cracking
R67 Vapours may cause drowsiness and dizziness

Safety Phrases: S2 Keep out of the reach of children
S14 Keep away from oxidisers
S23 Do not breathe vapours
S24/25 Avoid contact with skin and eyes
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S28 After contact with skin, wash immediately with plenty of soap suds
S33 Take precautionary measures against static discharges
S35 This material and its container must be disposed of in a safe way
S61 Avoid release to the environment

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name:	CAS Number:	Proportion:
Dimethyl Ether	115-10-6	30-60%
Zinc Dust	7440-66-6	30-60%
Xylene	1330-20-7	10-30%
Fumed Silica	112945-52-5	<10%
Epoxy ester resin	n.d.	<10%

Ingredients determined to be non-hazardous or below cut-off concentrations.

4. FIRST AID MEASURES

4.1 Symptoms of Exposure by Route

Swallowed:

May cause irritation of mouth and throat. May cause headaches, abdominal pain, weakness, dizziness, nausea and diarrhoea. May irritate digestive tract. Ingestion of large amounts may lead to unconsciousness and death. (All considered unlikely with aerosol.)

Eye:

Will cause moderate to severe eye irritation and may cause corneal damage.

Skin:

May irritate skin in sensitive individuals. Has a defatting action on the skin which may lead to drying and cracking.

Inhaled:

May cause nausea, diarrhoea and headaches. May irritate respiratory tract.

Prolonged or repeated inhalation of highly concentrated vapour/aerosols may lead to a seriously adverse effect on the central nervous system (CNS).

First Aid Instructions

Swallowed:

Do not induce vomiting. Give water to rinse mouth. Give two 300 ml glasses of water to drink. If patient starts to vomit involuntarily encourage to sit up and lean forward from the hips. Seek urgent medical assistance if more than 100 ml was swallowed or if symptoms persist.

Eye:

Immediately: Hold eyelids open and flush eyes with clean water for at least 15 minutes. While flushing gently lift upper and lower eyelids away from eyes and ensure both are thoroughly flushed. If symptoms persist seek prompt medical assistance.

Skin

Immediately remove all contaminated clothing, including footwear after wetting with water if available. Wash affected areas thoroughly with water, and soap if available. Rinse well and pat dry. Seek medical assistance promptly if symptoms persist.

Inhaled

Remove to fresh air, lay down, rest. If not breathing, apply resuscitation. Keep patient warm. Seek urgent medical advice unless recovery is almost immediate.

FIRST AID FACILITIES

Provide normal industrial first aid facilities including eye-wash stations and safety showers as appropriate.

Notes to Physician (for symptoms of over-exposure to this product see above)

Possible symptoms of Chronic Health Effects

Prolonged or repeated inhalation of high vapour concentrations may have an adverse effect on the central nervous system. Prolonged or repeated skin exposure may lead to dermatitis through drying and cracking of the skin. Deliberate concentration of vapour ("chroming") may have fatal effect from heart failure or other effects on the Central Nervous System (CNS).

Possible aggravated pre-existing conditions

None reported, however, persons with a pulmonary disorder should take particular care to avoid breathing aerosols or droplets

Suggested treatment for acute symptoms, known antidotes

Provide supportive care and treatment based on the patient's reaction to the exposure. For further information contact the :

POISONS INFORMATION CENTRE 13 11 26 in all States

5. FIRE FIGHTING MEASURES

Flammability and Explosion Hazards

Liquid and vapour flammable. Vapour may travel considerable distances to a source of ignition and flash back to the point of origin. Fire may produce irritating or poisonous gases. Heat may cause violent rupture of containers which may propel cans several metres while burning, potentially spreading the fire.

Hazardous Combustion Products

When thermally decomposing emits CO², NO² and trace amounts of other toxic gases.

Suitable Extinguishing Media

Foam, dry agents or water delivered as fog or fine spray if foam not available.

Hazchem Code : 3WE

Precautions For Fire Fighters & Special Protective Equipment

Wear full turn out clothing and self-contained breathing apparatus (SCBA). Avoid bodily contact with substance or run-off. Be aware of potential "mini-bleves" if aerosol cans are affected by fire.

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures – Spills and Leaks (See section 13 for disposal considerations)

Switch off or remove all potential sources of ignition. Prevent cans entering drains or waterways. Wear full protective clothing and respirator during clean-up. If pool of contents forms cover with sand, soil or other inert absorbents. Shovel saturated absorbent into plastic pails or drums. Seal lids, label and place in a safe area, away

from Class 5 goods and ignition sources, to await disposal. Collect serviceable can and return to store. Place damaged cans in a recovery drum for disposal or return to supplier. Thoroughly ventilate work area before re-entry.

7. HANDLING & STORAGE

Handling: Wear suitable protective clothing and equipment. Keep away from oxidisers and sources of ignition.

Storage: Store in accordance with AS 3833-98 and local regulations. Keep away from Class 5 goods. In the home store in a cool room out of direct sunlight. Keep away from pool chlorine or other goods displaying the yellow dangerous goods diamonds. Keep away from sources of ignition.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Standards: The ASCC has established exposure standards for three of the components but not for the finished product: (NB Zinc Oxide and fumed silica are "locked in" to the product and are not available except in very minor proportion as dust during sanding or similar operations.)

Substance	TWA	STEL
Fumed silica (respirable dust)	2 mg/m ³	n.all
Zinc Oxide (dusts)	10 mg/m ³	n.all
Dimethyl Ether	760 mg/m ³	950 mg/m ³

Engineering Control Methods: Provide adequate, intrinsically safe, ventilation/mechanical ventilation to ensure workplace air quality meets the exposure standards recommended. For use in the home: open all windows in the room where product is used. Care should be exercised if electric fans are used because of the flammable nature of the product. No smoking while product is in use.

Personal Protective Equipment:

Respiratory Protection: Not usually required. If working in an enclosed space where exposure standards may be exceeded use organic vapour filter respirator to AS1715 and 1716. Use self contained breathing apparatus (SBCA) in confined spaces. Use painters dust mask if sanding a large area of coating.

Hand Protection: When applying wear neoprene, nitrile or butyl rubber gloves to AS2161.

Eye Protection: Use safety glasses with side shields or goggles to AS1337.

Protective Clothing: Wear Tyvec or cotton coveralls fastened at the neck and wrists. Supplement with PVA apron if required.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Grey liquid
Odour:	Typical hydrocarbon solvent
Vapour Pressure:	4450 mm Hg (Dimethylether)
Density:	1.8-1.9

Solubility in Water:	Insoluble
Flashpoint: (°C):	-4°C (Dimethylether)
Percent Volatiles:	>60%
Freezing/Melting Point:	-141.5°C (Dimethylether)
Boiling Point:	- 24.8°C (Dimethylether)
Auto Ignition Point:	350°C (Dimethylether)
Flammability Limits:	3.4 to 26.7% vol/air (Dimethylether)
Other Properties:	Incompatible with oxidising substances

10. STABILITY AND REACTIVITY

Under normal circumstances of use this product is stable.

Conditions to avoid: Avoid heat, sparks, open flames and other ignition sources.

Incompatible Materials: Strong oxidising agents.

11. TOXICOLOGICAL INFORMATION

No product relevant data.

12. ECOLOGICAL INFORMATION

Potential to bioaccumulate or biomagnify is low. Solvents in this product are biodegradable with half lives of 2 to 7 days in aerobic systems. Is slower in anaerobic systems. Not persistent.

13. DISPOSAL CONSIDERATIONS

Disposal must be in accordance with local regulations for hazardous industrial wastes (Aerosol or paint related waste),

14. TRANSPORT INFORMATION

UN Number: 1950
Proper Shipping Name: AEROSOL
Class: 2.1

In accordance with the ADG Code & Regulations and the IMDG Code as appropriate to mode of transport.

15. REGULATORY INFORMATION

Poisons Schedule: S5

Label in accordance with the National Code of Practice for the Labelling of Workplace Substances [NOHSC 2012(1994)]

Risks & Safety Phrases listed in section 2

16. OTHER INFORMATION

For Industrial Use only. Keep out of reach of children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use and storage of the product under every foreseeable condition.

Abbreviations used: n.d = not determined, n.a. = not applicable, n.all = not allocated, n.est = not established

Website: www.tremco.com.au

The information sourced for the preparation of this document was correct and complete at the time of writing or to the best of the writer's knowledge. The document represents the commitment to the company's responsibilities surrounding the supply of this product undertaken in good faith. This documents should be taken as a safety guide for the product and its recommended uses but is in no way an absolute authority.