



MATERIAL SAFETY DATA SHEET

Issue date: 20th March, 2007

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: METAL ARMOUR[®] PAINT

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: GRP – all colours except clear
Recommended
Use: Paint for Metal
Other Names: Tremclad
Manufacturer's Product
Code: 270-BCURR
Proper Shipping
Name: PAINT

2. HAZARDS IDENTIFICATION

CLASSIFIED AS HAZARDOUS ACCORDING TO THE CRITERIA OF WORKSAFE AUSTRALIA AND DANGEROUS ACCORDING TO THE ADG CODE

Symbols: Xn Harmful
Risk Phrases: R10 Flammable
R65 Harmful: May cause lung damage if swallowed
Safety Phrases: S2 Keep out of the reach of children
S16 Keep away from sources of ignition
S33 Take precautionary measures against static discharges
S62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label

Emergency Overview

May cause moderate irritation to the respiratory system. May cause nausea, headaches, and dizziness. May cause drowsiness, weakness, and fatigue. Move to fresh air. If required, artificial respiration or administration of oxygen can be performed by trained personnel. Leave area to breathe fresh air. Avoid further overexposure. If symptoms persist, get medical attention.

Acute Potential Health Effects/ Routes of Entry

Inhalation : May cause moderate irritation to the respiratory system. May cause nausea, headaches, and dizziness. May cause drowsiness, weakness, and fatigue.
Eyes : Vapour and/or mist may cause eye irritation. Direct contact may cause temporary redness and discomfort.
Ingestion : May cause irritation to the mouth, throat and stomach. May cause gastrointestinal irritation, nausea, and vomiting.
Skin : May cause moderate irritation.

Aggravated Medical Conditions

Pre-existing eye, skin, liver, kidney, and respiratory disorders may be aggravated by exposure.

Chronic Health Effects

Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal. Prolonged or repeated exposure to xylene may cause defatting, drying, and irritation of the skin, dermatitis, central nervous system (CNS) effects, heart muscle sensitization and arrhythmia, hearing loss, and brain, liver, kidney damage. Xylene overexposure may affect foetal development. It has been determined that there is inadequate evidence for the carcinogenicity of cobalt 2-ethylhexanoate. However, cobalt and cobalt compounds are possible human carcinogens. The International Agency for Research on Cancer (IARC) has evaluated ethylbenzene and classified it as a possible human carcinogen (Group 2B) based on sufficient evidence for carcinogenicity in experimental animals, but inadequate evidence for cancer in exposed humans. Prolonged or repeated exposure may cause defatting, drying, and irritation of the skin, dermatitis, central nervous system (CNS) effects, heart muscle sensitization and arrhythmia, hearing loss, and brain, liver, kidney, and testes damage. Toluene overexposure may cause burns of the skin, respiratory tract damage. May be harmful to the human foetus based on animal tests and limited epidemiology data. Fillers are encapsulated and not expected to be released from product under normal conditions of use. Prolonged or repeated exposure to mineral spirits (petroleum naphtha or stoddard solvent) may cause defatting, drying, and irritation of the skin, dermatitis, central nervous system (CNS) effects, and adverse liver, kidney, and lung effects.

Target Organs: Skin.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name:	CAS Number:	Proportion:
Stoddart Solvent (Mineral Spirits)	8052-41-3	30-60%
Xylene	1330-20-7	0.5-1.5%
Aluminium oxide	1344-28-1	0.5-1.5%
Toluene	108-88-3	0.5-1.5%
1,2,4-Trimethylbenzene	95-63-6	0.1-1.0%
Ethylbenzene	100-41-4	0.1-1.0%
Cobalt (II) 2-ethylhexanoate	136-52-7	0.1-1.0%

The ingredients listed above are defined as hazardous.

4. FIRST AID MEASURES

Ingestion:	If swallowed, do NOT induce vomiting unless advised by a physician. Call Poison Control Centre or seek medical attention immediately.
Eye:	If in eyes, hold eyes open, flood with water for at least 15 minutes. Transport to nearest medical facility for immediate treatment.
Skin:	If skin contact occurs, remove contaminated clothing and clean skin thoroughly with handcleaner and follow by washing with soap and water. If irritation, rash or other disorders develop, get medical attention immediately.
Inhaled:	Remove person from exposure. Avoid further overexposure and provide artificial respiration if necessary.
Advice to Doctor:	Treat symptomatically.

5. FIRE FIGHTING MEASURES

Flash point	:	40 °C, 104 °F
Method	:	Setaflash Closed Cup
Lower explosion limit	:	1.00 %(V) Solvent
Upper explosion limit	:	7.1 %(V) Solvent
Autoignition temperature	:	Not available.
Extinguishing media	:	If water fog is ineffective, use carbon dioxide, dry chemical or foam.
Hazardous combustion Products	:	Smoke, fumes. Carbon monoxide and carbon dioxide can form. Nitrogen oxides can form.
Protective equipment for Firefighters	:	Use accepted fire fighting techniques. Wear full firefighting protective clothing, including self-contained breathing apparatus (SCBA). Water may be used to cool containers to minimize pressure build-up.
Fire and explosion conditions	:	Vapour concentrations in enclosed areas may ignite explosively. Product may ignite if heated in excess of its flash point. Vapours may travel to sources of ignition and flashback. Closed container, may burst when exposed to extreme heat. Empty containers may contain ignitable vapours.
Additional Information:	:	Hazchem code 3[Y]

6. ACCIDENTAL RELEASE MEASURES

Use appropriate protective equipment. Avoid contact with material. Remove sources of ignition immediately. Stop flow of material if safe to do so. Contain spill and keep out of water courses. Ventilate area. Observe all local and national regulations. Isolate hazard area and try to stay upwind.

7. HANDLING & STORAGE

Prevent inhalation of vapour, ingestion, and contact with skin eyes and clothing. Keep container closed when not in use. Precautions also apply to emptied containers. To prevent generation of static discharges, use bonding/grounding connection when pouring liquid. Extinguish all ignition sources including pilot lights, nonexplosion proof motors and electrical equipment until vapours dissipate. Personal protective equipment must be worn during maintenance or repair of contaminated mixer, reactor, or other equipment. Keep container closed when not in use. Vapour may migrate to sources of ignition. Do not smoke, weld, generate sparks, or use flame near container. Store in sealed containers in a cool, dry, ventilated warehouse location.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protection equipment

- | | | |
|------------------------|---|--|
| Respiratory protection | : | Wear appropriate, properly fitted organic vapour Or supplied air respirator when airborne contaminant level(s) are expected to exceed exposure limits indicated on the MSDS. Follow manufacturer's directions for respirator use. |
| Hand protection | : | Use suitable impervious nitrile or neoprene gloves and protective apparel to reduce exposure. |
| Eye protection | : | Wear appropriate eye protection. Wear chemical safety goggles and/or face shield to prevent eye contact. Do not wear contact lenses. Do not touch eyes with contaminated body parts or materials. Have eye washing facilities readily available. |
| Protective measures | : | Use professional judgment in the selection, care, and use. Inspect and replace equipment at regular intervals. |
| Engineering measures | : | Use only in well ventilated areas. Provide maximum ventilation in enclosed areas. Use local exhaust when the general ventilation is inadequate. |

Exposure Limits

Chemical Name	CAS Number	Limit
Stoddart solvent (Mineral Spirits)	8052-41-3	TWA 525 mg/m ³ 100 ppm
Xylene	1330-20-7	TWA 435 mg/m ³ 100 ppm STEL 650 mg/m ³ 150 ppm
Aluminium oxide	1344-28-1	TWA 10 mg/m ³
Toluene	108-88-3	TWA 50 ppm
1,2,4-Trimethylbenzene	95-63-6	TWA 123 mg/m ³ 25 ppm
Ethylbenzene	100-41-4	TWA 435 mg/m ³ 100 ppm STEL 540 mg/m ³ 125 ppm
Cobalt (II) 2-ethylhexanoate	136-52-7	TWA 0.02 mg/m ³

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Coloured liquids
Odour:	Petroleum
Vapour Pressure:	Not available
Vapour Density:	Is heavier than air
Solubility in Water:	Negligible
Specific Gravity:	1.3+/-0.14
Flashpoint: (°C):	40°C
Evaporation Rate:	Not available
Percent Volatile Weight:	40%
pH:	Not available
Boiling Point/Range:	400°C

10. STABILITY AND REACTIVITY

Chemical Stability: Stable under normal conditions of use.
Conditions to avoid: Avoid heat, sparks, open flames and other ignition sources.
Incompatible Materials: Strong oxidising agents, strong acids and strong bases.
Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Xylene, CAS-No.: 1330-20-7
Acute oral toxicity (LD-50 oral) 3,523 - 8,600 mg/kg (Rat)
Acute inhalation toxicity (LC-50) 6,350 mg/l (Rat)

Toluene, CAS-No.: 108-88-3	
Acute oral toxicity (LD-50 oral)	2,600 - 7,500 mg/kg (Rat)
Acute inhalation toxicity (LC-50)	26,700 mg/l (Rat)
Acute dermal toxicity (LD-50 dermal)	12,124 mg/kg (Rabbit)
Ethylbenzene, CAS-No.: 100-41-4	
Acute oral toxicity (LD-50 oral)	3,500 mg/kg (Rat)
Acute dermal toxicity (LD-50 dermal)	17,800 mg/kg (Rabbit)

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONS

Disposal Methods: Ensure waste disposal conforms to local waste disposal regulations. DO NOT EMPTY INTO DRAINS.

14. TRANSPORT INFORMATION

UN Number:	1263
Proper Shipping Name:	PAINT
Class:	3
Subsidiary Risk:	None allocated
Packing Group:	III
Hazchem Code:	3[Y]

15. REGULATORY INFORMATION

Poisons Schedule: S5
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.

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 document should be taken as a safety guide for the product and its recommended uses but is in no way an absolute authority.