



MATERIAL SAFETY DATA SHEET

Issue date: 20th March, 2007

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: METAL ARMOUR® AERO

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-ACURR
Proper Shipping
Name: AEROSOL

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
R68/20/22 Harmful: possible risk of irreversible effects through inhalation and if swallowed
Safety Phrases: S2 Keep out of the reach of children
S14 Keep away from oxidisers
S16 Keep away from sources of ignition
S33 Take precautionary measures against static discharges

Emergency Overview

May cause nausea, headaches, and dizziness. May cause drowsiness, weakness, and fatigue. Vapour and/or mist may irritate nose and throat. May cause moderate irritation to the respiratory system. Move to fresh air. If required, artificial respiration or administration of oxygen can be performed by trained personnel.

Acute Potential Health Effects/ Routes of Entry

Inhalation : May cause nausea, headaches, and dizziness. May cause drowsiness, weakness, and fatigue. Vapour and/or mist may irritate nose and throat. May cause moderate irritation to the respiratory system.
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 mild irritation.

Aggravated Medical Conditions

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

Chronic Health Effects

Propellants in product, such as propane and isobutane, are asphyxiants and can be anaesthetic at high concentrations. Repeated overexposure to vapours and/or material may injure the liver, kidneys and respiratory system unless suitable engineering controls and/or personal protective equipment are used. 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. Prolonged or repeated overexposure to acetone may cause liver damage, Central Nervous System depression and narcosis. 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. Propellants in product, such as propane and isobutane, are asphyxiants and can be anaesthetic at high concentrations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name:	CAS Number:	Proportion:
Acetone	67-64-1	15.0-40.0%
Liquified petroleum gases	68476-86-8	15.0-40.0%
Isobutane	75-28-5	7.0-13.0%
Xylene	1330-20-7	5.0-10.0%
Ethylbenzene	100-41-4	1.0-5.0%

The ingredients listed above are defined as hazardous.

4. FIRST AID MEASURES

Get immediate medical attention for any significant overexposure.

Inhalation : Move to fresh air. If required, artificial respiration or administration of oxygen can be performed by trained personnel.

Eye contact : Flush with water for at least 15 minutes while holding eye lids apart. Get medical attention immediately.

Skin contact : Clean area of contact thoroughly using soap and water. If irritation, rash or other disorders develop, get medical attention immediately.

Ingestion : Do not induce vomiting unless advised by a physician. Call nearest Poison Control Centre or Physician immediately.

Advice to Doctor : Treat symptomatically.

5. FIRE FIGHTING MEASURES

Flash point : Not available.

Method : Flame Extension 45cm+

Lower explosion limit : Not available.

Upper explosion limit :	Not available.
Autoignition temperature :	Not available.
Extinguishing media :	If water fog is ineffective, use carbon dioxide, dry chemical or foam.
Hazardous combustion Products :	Carbon monoxide and carbon dioxide can form. Smoke, fumes. Oxides of cobalt. Oxides of barium. Oxides of zirconium. Oxides of titanium. Oxides of boron.
Protective equipment for Firefighters :	Use accepted fire fighting techniques. Wear full fire fighting protective clothing, including self-contained breathing apparatus (SCBA). Water may be used to cool containers to minimize pressure build-up.
Fire and explosion conditions :	Extremely flammable vapours. Closed container, may burst when exposed to extreme heat. Vapour concentrations in enclosed areas may ignite explosively. Empty containers may contain ignitable vapours. Vapours may travel to sources of ignition and flashback. Contents under pressure. Do not puncture or incinerate. Do not expose to heat or store at temperatures above 100°F/38°C.

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.

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. Do not smoke, weld, generate sparks, or use flame near container. Keep away from heat and flame. Store below 100°F/38°C. Do not store in direct sunlight. Do not puncture or incinerate aerosol containers, even when empty. Do not freeze. Store under dry warehouse conditions away from heat and all ignition sources.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protection equipment

Respiratory protection :	Wear appropriate, properly fitted, approved organic vapour or supplied air respirator when
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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.
- Skin and body protection : Typical full cover clothing.
- Protective measures : Use professional judgment in the selection, care, and use.
- Engineering measures** : se only in well ventilated areas. Provide maximum ventilation in enclosed areas. Use general ventilation and/ or local exhaust to reduce the airborne contaminant concentration below the exposure limit listed in the MSDS

Chemical Name	CAS Number	Limit
Acetone	67-64-1	TWA 500 ppm STEL 750 ppm
Isobutane	75-28-5	TWA 1,000 ppm or 1,900 mg/m3
Xylene	1330-20-7	TWA 100 ppm or 435 mg/m3 STEL 150 ppm or 650 mg/m3
Ethylbenzene	100-41-4	TWA 100 ppm or 435 mg/m3 STEL 125 ppm or 540 mg/m3

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Coloured liquids
Form:	Aerosol
Odour:	Aromatic Ketone
pH:	Not available
Vapour Pressure:	Not available
Vapour Density:	Heavier than air
Solubility in Water:	Negligible
Specific Gravity :	0.8
Evaporation Rate:	Not available
% Volatile Weight:	62%

10. STABILITY AND REACTIVITY

Substances to avoid: Oxidising agents.

11. TOXOCOLOGICAL 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)

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: Dispose according to all applicable regulations (hazardous household waste depot, or as liquid industrial waste for industrial product). Recycle or dispose of in compliance with local and federal regulations.

14. TRANSPORT INFORMATION

UN Number: 1950
Proper Shipping Name: AEROSOLS
Class: 2
Subsidiary Risk: None allocated
Packing Group: Not applicable

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