TREMCO MATERIAL SAFETY DATA SHEET

Issue date: 9th March, 2009

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: ALUMICOOL

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 Business Hours only 7am to 5pm Monday to Friday Inclusive
Product Codes: 130399 1L tin
130400 4L tin
225102 20L pail
Recommended Use: For protection of all types of roof surfaces including bituminous, concrete, metal and fibre cement. Brush, roller and spray applied
Other Names: Bitunamel Sprayable Silver
Proper Shipping Name: TARS, LIQUIDS

2. HAZARDS IDENTIFICATION

CLASSIFIED AS HAZARDOUS ACCORDING TO THE CRITERIA OF WORKSAFE AUSTRALIA AND DANGEROUS GOODS ACCORDING TO THE ADG CODE
Symbols: Xn Harmful
Risk Phrases: R20 Harmful by inhalation
R36/37/38 Irritating to eyes, respiratory system and skin
R67 Vapours may cause drowsiness and dizziness
Safety Phrases: S2 Keep out of the reach of children
S14 Keep away from oxidisers
S16 Keep away from sources of ignition – No smoking
S23 Do not breathe vapour

Emergency Overview
Silver liquid with hydrocarbon solvent. May cause nausea, headaches, and dizziness. May cause drowsiness, weakness, and fatigue. May cause slight irritation to the respiratory system. 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 nausea, headaches, and dizziness. May cause drowsiness, weakness, and fatigue. May cause slight irritation to the respiratory system. Threshold limit value for Liquid Hydrocarbons is approx. >100 ppm.
Eyes	:	Direct contact may cause moderate irritation. Direct contact may cause temporary redness and discomfort.
Ingestion	:	May cause gastrointestinal irritation, nausea, and vomiting.
Skin	:	May result in skin reactions and drying of skin.

Aggravated Medical Conditions

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

Chronic Health Effects

Over exposure to high vapour may cause irregular breathing, collapse and come.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name:	CAS Number:	Proportion:
Aluminium dust*	7429-90-5	11-<60%
Bitumen	8052-42-4	11-<60%
Hydrocarbon Resin	68131-77-1	01-<10%
Magnesium Silicate	14807-96-6	11-<60%
Liquid Hydrocarbons	8008-20-6	11-<60%

* Nuisance dust hazard when removing dry coat

4. FIRST AID MEASURES

Get immediate medical attention for any significant overexposure.

Inhalation : Leave area to breathe fresh air. Apply artificial respiration if not breathing. Seek medical attention.

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

Skin contact : Remove contaminated clothing. Wash skin thoroughly with soap and water.

Ingestion : Do not induce vomiting. Give a glass of water and seek medical aid.

Advice to Doctor : Treat Symptomatically.

5. FIRE FIGHTING MEASURES

Closed containers may explode when exposed to extreme heat (fire).

FLAMMABILITY : The product is flammable and may be ignited by flame, sparks or non-flameproof electrical equipment at temperatures above it's flash point. Do not use close to ignition sources or unventilated areas.

Flammability limits in Air (% Volume) : Lower = 1 Upper -= 7

Flash point : 32°C

Method : Closed Cup

Autoignition temperature : Not applicable

Extinguishing Media: Use dry chemical, foam or carbon dioxide fire extinguishers. Use water spray to cool fire exposed surfaces and to protect personnel. Minimise breathing gases, vapour, fumes or decomposition products. Carbon monoxide evolved if combustion incomplete – high hazard. Use self-contained air breathing apparatus (SCBA) for enclosed areas.

Decomposition Products: In a fire hazardous products such as smoke, carbon monoxide, carbon dioxide may be produced. Vapours are heavier than air and may accumulate in lower areas and explode. Residue in empty containers may explode if ignited.

Protective equipment for Firefighters : Use accepted fire fighting techniques. Wear full firefighting protective clothing, including self-contained breathing apparatus (SCBA).

Additional Information: Hazchem code 3Y

6. ACCIDENTAL RELEASE MEASURES

Observe all local and national regulations

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. Absorb spill in sand, earth or suitable material. Clean up crews should wear protective clothing PVC gloves, safety shoes and eye protection. **FOR LARGE SPILLS,** contain the spill by using booms etc. Inform regulatory authorities immediately (e.g. Fire Brigade, EPA)
Transfer to appropriate container for disposal using non-sparking tools.

7. HANDLING & STORAGE

DANGEROUS GOODS CLASS - 3 **SUB RISK**: None Allocated

Storage should be as for a manufactured product containing flammable liquid. Store in areas/building designed to comply with the appropriate dangerous goods regulations. Protect from physical damage. Keep container closed when not in use. Do not use pressure to empty drums. Keep container closed when not in use. Precautions also apply to emptied containers. Do not smoke, weld, generate sparks, or use flame near container. Do not use in confined or poorly ventilated areas. Personal protective equipment must be worn during maintenance or repair of contaminated mixer, reactor, or other equipment. Store under dry warehouse conditions away from heat and all ignition sources.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Standards : TLV – Liquid Hydrocarbons – 100 ppm

Personal protection equipment

Respiratory protection : Wear appropriate, properly fitted NIOSH/MSHA approved 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.
Skin and body protection :	Prevent contact with shoes and clothing.
Protective measures :	Use professional judgment in the selection, care, and use. Inspect and replace equipment at regular intervals.

Engineering Controls :

a) Process modification to eliminate substance – Not Applicable
b) Segregation of processes from personnel and/or distance – Not Applicable
c) Vessel Containment Controls – Not Applicable
d) Enclosure of sources of substances to the maximum extent possible - Not Applicable
e) Mechanical handling to reduce human contact with substance – The use of forklifts to load/unload drums and/or pallets should be used whenever possible.
f) Is a Local Exhaust Ventilation System required? Not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form :	Silver coloured paint
Colour :	Characteristic
Odour :	Solvent
pH :	Not applicable
Vapour pressure :	Not applicable
Vapour density (Air = 1) :	4
Melting point :	Not applicable
Freezing point :	Not available.
Boiling point :	150-230 °C
Water solubility :	Immiscible
Specific Gravity @ 25^{o}C:	0.96
Oxidising properties :	Avoid oxidising agents
Evaporation Rate (Butylacetate = 1) :	>1
Volatile organic compounds :	48.4% = 465g/l

10. STABILITY AND REACTIVITY

Substances to avoid :	Oxidizing agents.
Stability :	Material is stable under normal storage, handling, and use.
Hazardous polymerization :	Will not occur under normal conditions.

11. TOXOCOLOGICAL INFORMATION

No data available.

12. ECOLOGICAL INFORMATION

No data available.

13. DISPOSAL CONSIDERATIONS

Wherever possible, reprocess or recycle any reclaimed material to reduce waste.
Contained spills need to be soaked up and disposed into a metal container (avoid using plastic containers).
The absorbed material may be disposed of as solid waste in conformity with the requirements of the Regulatory Authorities.

14. TRANSPORT INFORMATION

UN Number:	1999
Proper Shipping Name:	TARS, LIQUIDS
Class:	3
Packing Group:	III
Hazchem Code:	3Y

15. REGULATORY INFORMATION

Risk & Safety Phrases listed in Section 2.

16. OTHER INFORMATION

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.