



MATERIAL SAFETY DATA SHEET

Issue date: 27th August, 2007

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: ALUMANATION 301

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: 220222 18.9L pail
Recommended Use: This product is used for the rust-proofing and weatherproofing of metal roofs, side walls, tanks, bridges, structural steel etc., and is applied using a brush, roller or spray.
Other Names: Alumanation 301 55 GL DR
Manufacturer's Product Code: 301550
Proper Shipping Name: TARS, LIQUIDS

2. HAZARDS IDENTIFICATION

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

Emergency Overview

Aluminium. Liquid. 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.
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 cause moderate irritation. May cause itching, reddening, inflammation. May cause a rash. May cause sensitization.

Aggravated Medical Conditions

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

Chronic Health Effects

Prolonged or repeated skin contact with asphalt may result in skin sensitivity, such as irritation, rashes, and dermatitis. Prolonged or repeated exposure to polycyclic aromatic hydrocarbons and other volatiles which are contained in trace amounts in asphalt have been shown to cause cancer or respiratory damage in animals.

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, Eye, Lung, Liver, Kidney, Nerve

Symbols: Xn Harmful
Risk Phrases: R20/21 Harmful by inhalation and in contact with skin
R36/37/38 Irritating to eyes, respiratory system and skin
Safety Phrases: S2 Keep out of the reach of children
S14 Keep away from oxidising agents
S25 Avoid contact eyes
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name:	CAS Number:	Proportion:
Asphalt	8052-42-4	30-60%
Stoddart solvent (Mineral Spirits)	8052-41-3	30-60%
Aluminium	7429-90-5	15-40%
Aliphatic naphtha	64742-88-7	5-10%
Calcium carbonate	471-34-1	5-10%
Inert filler	51721300-5164P	1-5%
Inert filler	51721300-5013P	1-5%
Amorphous silica	7631-86-9	1-5%

4. FIRST AID MEASURES

Get immediate medical attention for any significant overexposure.

Inhalation : Leave area to breathe fresh air. Avoid further overexposure. If symptoms persist, get medical attention.

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.

First Aid Facilities : Potable water should be available to rinse eyes or skin.
Provide eye baths and safety showers.
Advice to Doctor : Treat symptomatically.
Additional Information: : None available

5. FIRE FIGHTING MEASURES

Flash point : 105 °F, 41 °C
Method : Tag Closed Cup
Lower explosion limit : 0.90 %(V) Solvent
Upper explosion limit : 7 %(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. Oxides of sulfur can form.

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

Fire and explosion conditions : Product may ignite if heated in excess of its flash point. Vapours may travel to sources of ignition and flashback. Vapour concentrations in enclosed areas may ignite explosively. Empty containers may contain ignitable vapours.

Additional Information: Hazchem code 2W]

6. ACCIDENTAL RELEASE MEASURES

Observe all local and national regulations
Refer to Section 13 for disposal considerations.
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. 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

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 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	Regulation	Limit	Form
Asphalt	8052-42-4	ACGIH TWA:	0.5 mg/m ³	Inhalable fraction as benzene solubles.
Stoddart solvent (Mineral Spirits)	8052-41-3	ACGIH TWA:	100 ppm	
		OSHA PEL	2,900 mg/m ³	
Aluminium	7429-90-5	ACGIH TWA:	10 mg/m ³	Dust.
		ACIGH TWA:	5 mg/m ³	Pyrophoric powder as Al
		OSHA PEL:	15 MG/M ³	Total dust as Al.
		OSHA PEL:	5 mg/m ³	Respirable dust as Al.
		OSHA TWA:	15 MG/M ³	Total dust.
		OSHA TWA:	5 mg/m ³	Respirable fraction.

Chemical Name	CAS Number	Regulation	Limit	Form
Calcium carbonate	471-34-1	ACGIH TWA:	10 mg/m ³	Respirable fraction. Total dust. Total dust. Respirable fraction.
		OSHA PEL:	5 mg/m ³	
		OSHA PEL:	15 mg/m ³	
		OSHA TWA:	15 mg/m ³	
		OSHA TWA:	5 mg/m ³	
Inert filler	51721300-5013P	ACGIH TWA:	10 mg/m ³	Respirable fraction. Total dust. Total dust. Respirable fraction.
		OSHA PEL:	5 mg/m ³	
		OSHA PEL:	15 mg/m ³	
		OSHA TWA:	15 mg/m ³	
		OSHA TWA:	5 mg/m ³	
Inert filler	51721300-5134P	ACGIH TWA:	10 mg/m ³	
Amorphous silica	7631-86-9	ACGIH TWA:	3 mg/m ³	Respirable particles. Inhalable particles. Total dust.
		ACGIH TWA:	10 mg/m ³	
		OSHA PEL:	15 mg/m ³	
		OSHA PEL:	5 mg/m ³	Respirable Fraction.
		OSHA TWA:	0.8 mg/m ³	

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	:	Liquid
Colour	:	Aluminium
Odour	:	Petroleum
pH	:	Not available
Vapour pressure	:	Not available
Vapour density	:	Heavier than air
Melting point/range	:	Not available
Freezing point	:	Not available
Boiling point/range	:	311 °F, 155 °C
Water solubility	:	Negligible
Specific Gravity	:	1.06
% Volatile Weight	:	38 %

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. TOXICOLOGICAL INFORMATION

Calcium carbonate, CAS-No.: 471-34-1 Acute oral toxicity (LD-50 oral)	6,450 mg/kg (Rat)
Amorphous silica, CAS-No.: 7631-86-9 Acute oral toxicity (LD-50 oral)	22,500 mg/kg (Rat)

12. ECOLOGICAL INFORMATION

No data available.

13. DISPOSAL CONSIDERATIONS

Disposal Methods: Ensure waste disposal conforms to local waste disposal regulations.

Minor Spills: Remove all ignition sources. Keep people away. Recover free material. Add absorbent (sand, earth, sawdust etc.) to spill area. Avoid breathing vapours. Wear ventilator. Ventilate enclosed spaces. Vapours are heavier than air and may accumulate in low areas.

Major Spills: Clear personnel. Alert Fire Brigade. Provide barriers to prevent liquid from entering streets, sewers or waterways.

Disposal: Residue in empty containers may explode on ignition.

This material contains environmentally hazardous substances. Relevant regulations and competent authorities should be consulted for disposal requirements.

14. TRANSPORT INFORMATION

UN Number:	1999
Proper Shipping Name:	TARS, LIQUIDS
Class:	3
Subsidiary Risk:	None allocated
Packing Group:	III
Hazchem Code:	2W
Special Precautions for User:	None

15. REGULATORY INFORMATION

Hazardous Components :

Asphalt	8052-42-4
Stoddard solvent (Mineral Spirits)	8052-41-3
Aluminum	7429-90-5
Calcium carbonate	471-34-1
Inert Filler	NJTSRN# 51721300-5134P
Inert Filler	NJTSRN# 51721300-5013P
Amorphous silica	7631-86-9

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.