



PRICE CHEMICALS PTY LIMITED

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MATERIAL SAFETY DATA SHEET

NOT Hazardous according to criteria of Worksafe Australia

Date of Issue : 1st January 2005

1. IDENTIFICATION

General

Product Name : ALUMINIUM SULPHATE

Other Names : ALUM ; CAKE ALUM

UN No. : N/A

Dangerous Goods Class : None Allocated

Subsidiary Risk : None Allocated

Hazchem Code : N/A

Pack Group : 0

EPG : N/A

Poisons Schedule : N/A

Uses :

Sizing paper, lakes, alums, dyeing mordant, foaming agent in fire foams, cloth fireproofing, white leather tannage, catalyst in manufacturing ethane, pH control in paper industry, waterproofing agent for concrete, clarifier for fats and oils, lubricating compositions, deodoriser and decolouriser in petroleum refining, sewage precipitating agent and for water purification, food additive.

1.1 Physical Description / Properties

Appearance : White lustrous crystals, granules or powder.

Formula : $Al_2(SO_4)_3$

Boiling Point : N/A deg C

Melting Point : 86 deg C

Vapour Pressure : N/A

Specific Gravity : 1.7 (water = 1)

Flash Point : N/A

pH : 3.1 (1% in H₂O)

Solubility in water : 280 g/l (25 deg C)

Flammability Limits (as percentage volume in air)

Lower Explosion Limit : N/A

Upper Explosion Limit : N/A

1.2 Other Properties

No data available

1.3 Ingredients

Chemical Entity	CAS No.	Proportions (%)
ALUMINIUM SULPHATE	[10043-01-3]	> 99
ALUMINIUM OXIDE	[1344-28-1]	< 0.5

2. HEALTH HAZARD INFORMATION

2.1 Health Effects - Acute

Swallowed

May cause abdominal pain, nausea, and vomiting. Concentrated solutions (over 20%) can cause burns of the mouth, bleeding stomach, incoordination, muscle spasms and kidney injury.

Eye

Dust can cause irritation and inflammation of the eyes. Concentrated solutions may cause severe eye damage.

Skin

Dust and concentrated solutions can cause irritation, especially of open cuts.

Inhaled

Dust forms sulphuric acid in contact with moisture in air or in tissues; can cause sore throat, coughing and irritation of nose and throat. High concentrations may cause congestion and constriction of airways.

2.2 Health Effects - Chronic

Prolonged exposure can cause irritation and numbing of the fingers. Repeated ingestion may cause phosphate deficiency, which can weaken bones. Ingested material is not easily absorbed. It reacts with phosphate, forming an insoluble compound which is readily passed out of the body. Inhaled dust may accumulate in the lungs until slowly cleared.

2.3 First Aid

Swallowed

Never give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing. Have victim rinse mouth thoroughly with water. DO NOT induce vomiting. If breathing has stopped, trained personnel should begin artificial respiration. If the heart has stopped begin CPR immediately.

Eye

Immediately flush the contaminated eyes with lukewarm, gently flowing water for 20 minutes, holding the eyelids open. Take care not to rinse contaminated water into the non-affected eye. If irritation persists, obtain medical attention immediately.

Skin

Flush contaminated area with lukewarm, gently running water for at least 20 minutes. Under running water, remove contaminated clothing, shoes and leather goods. If irritation persists, obtain medical attention immediately.

Inhaled

If symptoms are experienced, remove source of contamination or move victim to fresh air. Obtain medical advice immediately.

First Aid Facilities

Ensure an eye bath and safety shower are available and ready for use.

2.5 Advice to Doctor

Treat symptomatically based on judgement of doctor and individual reactions of patient.

2.6 Toxicity Data

Oral LD50 = 1930 mg/kg (Rat) Dermal LD50 = not available Inhalation LC50 = not available

3. PRECAUTIONS FOR USE

3.1 Exposure Standards

Threshold Limit Value (TLV) : 2 mg/m³ as Aluminium

3.2 Engineering Controls

Use general or local exhaust ventilation to meet TLV requirements.

3.3 Personal Protection

Use safety glasses with side shields. Use a dust mask or respirator with dust cartridge. Wash hands and face thoroughly after handling and before work breaks, eating, drinking, smoking and using toilet facilities.

3.4 Flammability

Not flammable

SAFE HANDLING INFORMATION

4.1 Storage / Transport

Store in a cool dry place away from structural steel. Keep containers tightly closed. Avoid dust formation.

4.2 Packaging / Labelling

UN No. N/A

Class None Allocated

Sub Risk None Allocated

Hazchem Code N/A

Pack Group 0

EPG No. N/A

Shipping Name ALUMINIUM SULPHATE

Hazard

Risk Phrases

Safety Phrases

S24/25 Avoid contact with skin and eyes.

4.3 Spills and Disposal

Spills

Wear suitable protective clothing. Avoid dust formation.

Carefully vacuum or sweep up spill and place in suitable containers for reuse or disposal.

Disposal

Dispose of in accordance with all Local, State and Federal regulations at an approved waste disposal facility.

4.4 FIRE AND EXPLOSION HAZARD

Fire / Explosion

Forms aluminium oxide and sulphur trioxide at temperatures above 650 deg C. Hazardous polymerisation is not expected.

Extinguishing Media

Fire-fighters should wear full protective clothing including self-contained breathing apparatus. Use equipment/media appropriate to surrounding fire conditions.

5 OTHER INFORMATION

Other Information

No data available

5.1 Contact Points

Organisation	Location	Telephone	Ask For
Price Chemicals Pty Ltd	Somersby NSW	02 – 4340 0088	Technical Officer
Poisons Information Centre	Westmead	131129	
		1800-251525	

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