



Paramount Pools & Spas

a division of PoolQuip Limited

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If you have a Chemical Emergency phone 111 and ask for Fire
In case of Poisoning contact The National Poisons Centre on 0800 POISON (0800 764 766)
The most current version of this document is available online at www.poolquip.co.nz

MATERIAL SAFETY DATA SHEET (MSDS)

1.0 Product & Company Information

Revision Date: April 2011
Product Name: **Aluminium Sulphate**
Other Names: Pool Flocc, Flocculent, Aluminium Salt
Uses: For the Flocculation (settling of debris) in Swimming Pools
Distributor Details: As per above, or any of our authorised retailers and distributors

2.0 Hazard Data

NOT Hazardous according to criteria of NOHSC/ASCC.

Risk Phrases: No data available.
Safety Phrases: S24/25 Avoid contact with skin and eyes.
ERMA New Zealand Approval Code:
HSNO Hazard Classification: 6.1D 6.3A 8.1A 8.3A 9.1B 9.3C

3.0 Composition

Chemical Name:	Aluminium Sulphate
CAS Number:	10043-01-3
Percentage Rating:	100%

4.0 First Aid Measures

Description of necessary measures according to routes of exposure.

Swallowed:	Rinse mouth with water. Give water to drink provided person is conscious. Do NOT induce vomiting. Seek medical attention.
Eyes:	Immediately flush eyes with plenty of water holding eyelids open. If irritation persists, seek medical attention.
Skin:	Remove contaminated clothing. Flush affected area with plenty of lukewarm water. If irritation persist, seek medical attention.
Inhaled:	Remove victim from exposure to fresh air. If rapid recovery does not occur, seek medical attention.
Advice to Doctor:	Treat symptomatically based on individual reactions of patient and judgement of doctor. NOTE: For advice in an emergency, contact a Poisons Information Centre (Australia 13-11-26 or New Zealand 0800-764-766).
Aggravated medical	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.

5.0 Fire Fighting Measures

Extinguishing Media	In case of fire, use appropriate extinguishing media most suitable for surrounding fire conditions.
Hazards from Combustion Products	Non-combustible solid. Avoid generating dust. Incompatible with oxidizing agents and sources of ignition. Forms aluminium oxide and

sulphur trioxide at temperatures above 650°C.

Special Protective Precautions and Equipment for Fire Fighters	Fire fighters should wear a self contained breathing apparatus and full protective clothing along with protective equipment.
Flammability Conditions	Product is a non-flammable solid.
Hazchem Code	N/A

6.0 Accidental Release Measures

Emergency Procedures	Personnel involved in the clean up should wear full protective clothing. Eliminate all sources of ignition. Increase ventilation. Avoid generating dust. Do not allow product to reach drains, sewers or waterways. If the product does enter a waterway, advise the Environmental Protection Authority or your local Waste Management. Use clean, non-sparking tools and equipment.
Methods and Materials for Containment and Clean Up	Contain and sweep/shovel up spills with dust binding material or use an industrial vacuum cleaner. Transfer to a suitable, labelled waste container and hold for safe disposal.

7.0 Handling & Storage

Precautions for Safe Handling	Ensure an eye bath and safety shower are available and ready for use. Observe good personal hygiene practices and recommended procedures. Wash thoroughly after handling. Take precautionary measures against static discharges by bonding and grounding equipment.
Conditions for Safe Storage (Including any compatibles)	Store in a cool, dry, well-ventilated area. Keep containers tightly closed when not in use. Inspect regularly for deficiencies such as damage or leaks. Protect against physical damage. Store away from incompatible materials including strong oxidizing agents and sources of ignition. Protect from direct sunlight, moisture, structural steel and moisture. This product is not classified dangerous for transport according to The Australian Code for the Transport of Dangerous Goods By Road and Rail
Container Type	Store in original packaging as approved by manufacturer.

8.0 Exposure Controls / Personal Protection

National Exposure Standards	The following exposure standard has been established by The Australian Safety and Compensation Council (ASCC); Aluminium soluble salts (as Al) TWA = 2mg/m ³
Biological Limit Values	No information available on biological limit values for this product.
Engineering Controls	A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.
Personal Protection	RESPIRATOR: Wear an effective dust mask or respirator with dust cartridge where dusts are generated (AS1715/1716). EYES: Safety glasses with side shields (AS1336/1337). HANDS: Protective gloves are recommended (AS2161). CLOTHING: Protective coveralls and safety footwear (AS3765/2210).

9.0 Physical and Chemical Properties

Appearance	White lustrous crystals, granules or powder
Formula	C ₃ H ₃ N ₃ O ₃
Odour	Odourless
Vapour Pressure	Not applicable.
Vapour Density	Not applicable.
Boiling Point	Not applicable.
Melting Point	770 C
Solubility in Water	50%
Specific Gravity	Not applicable.
Flash Point	Not applicable.
pH	3.7
Rate of Solid Materials	No data available
Decomposition Temperature	770c
Additional Information	Solubility: Soluble in water. Insoluble in alcohol.

10.0 Stability and Reactivity

Chemical Stability	Product is stable under normal conditions of use, storage and temperature.
Conditions to Avoid	Avoid excessive heat, direct sunlight, static discharges, generating dust, moisture and high temperatures.
Incompatible Materials	Incompatible with strong oxidizing agents and sources of ignition.
Hazardous Decomposition Products	Forms aluminium oxide and sulphur trioxide at temperatures above 650°C.

Hazardous Reactions Hazardous polymerization is not expected.

11.0 Toxicological Information

Toxicity Data Oral LD50 Rat: 1930mg/Kg

Health Effects – Acute

Swallowed Ingestion may cause abdominal pain, nausea and vomiting.
Concentrated solutions (>20%) can cause burns of the mouth, bleeding stomach, inco-ordination, 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.
May cause sore throat, coughing and irritation of the nose and throat.
High concentrations may cause congestion and constriction of airways.

12.0 Ecological Information

Ecotoxicity No data available

Persistence and Degradability No information available on persistence and degradability for this product

Mobility No information available on mobility for this product.

Environmental Fate (Exposure) Avoid contaminating waterways, drains and sewers..

Bioaccumulative Potential No information available on bioaccumulation for this product.

13.0 Disposal Considerations

Disposal Dispose of in accordance with all local, state and federal regulations. All

empty packaging should be disposed of at an approved facility.

Special Precautions for Land Fill or Incineration The waste code classification is to be carried out according to the European Waste Catalogue (EWC) specifically for each branch of industry and each type of process.

14.0 Transport Information

Land and Sea Transport

UN Number	Not applicable
Shipping Name	Aluminium Sulphate
Dangerous Goods Class	Not applicable
Packing Group	Not applicable
Hazchem Code	Not applicable

15.0 Regulatory Information

Classified as hazardous in accordance with Annex I European Directive 67/548/EEC and The Australian Safety and Compensation Council (ASCC) formerly known as NOHSC.

Poisons Schedule	N/A
EPG	N/A
AICS Name	SULFURIC ACID, ALUMINIUM SALT (3:2)
NZ Toxic Substance	N
HSNO Hazard Classification	6.1D 6.3A 8.1A 8.3A 9.1B 9.3C
ERMA Approval Code	No Data Available

16.0 Other Information

None