

MATERIAL SAFETY DATA SHEET

PRODUCT:ALUM (ALUMINIUM SULPHATE)

Date of Issue: 21 AUG 2021 Valid until: 20 AUG 2026

GHS Format

1. IDENTIFICATION OF MATERIAL & SUPPLIER

Product (material) Name: MANUTEC ALUM (Aluminium Sulphate)

Other names: None

Manufacturer's code: MBP0263 (2.5KG)

Recommended use: Used to acidify the soil, particularly in hydrangeas to acidify the pH and impart blue colour.

Manufacturer/Supplier Information:

Name: MANUTEC PTY LTD

Address: 30 Jonal drive, Cavan, South Australia 5094

Telephone No:+61-8-8260 2277 **Fax:**+61-8-8260 2399

Email: manutec@manutec.com.au

Emergency contact only: Poisons Information Centre (Australia) 131126

2. HAZARDS IDENTIFICATION

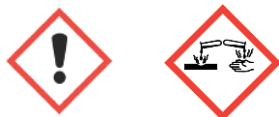
Poisons Schedule: None

Hazard Classification:

HAZARDOUS CHEMICAL. NON-DANGEROUS GOODS. According to the Model WHS Regulations and the ADG Code.

Hazard Categories: Skin Corrosion/Irritation Category 2, Serious Eye Damage Category 1, STOT - SE (Resp. Irr.) Category 3

Pictograms:



Signal Word: **Danger**

Hazard Statements:

H315 Causes skin irritation

H318 Causes serious eye damage

H335 May cause respiratory irritation

Precautionary Statements:

Prevention: P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response: P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/doctor/physician/first aider

Storage: P405 Store locked up.
P403+P233 Store in a well-ventilated place.
Keep container/package tightly closed.

National Transport Commission (Australia)

Dangerous Goods Classification

Non Dangerous goods according to ADG code

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Entity	CAS Number	Proportion
Aluminium Sulphate	10043-01-3	>99%

4. FIRST AID MEASURES

Eye Contact

If this product comes in contact with the eyes:
Immediately hold eyelids apart and flush the eye continuously with running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Transport to hospital or doctor without delay. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

Skin Contact

If skin contact occurs:
Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.

Inhalation

If dust is inhaled, remove from contaminated area. Encourage patient to blow nose to ensure clear passage of breathing. If irritation or discomfort persists seek medical attention.

Ingestion

If swallowed do NOT induce vomiting.

If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.

Observe the patient carefully.

Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.

Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.

Seek medical advice.

5. FIRE FIGHTING MEASURES

Extinguishing media

There is no restriction on the type of extinguisher which may be used.

Use extinguishing media suitable for surrounding area.

Special hazards arising from the substrate or mixture

Fire Incompatibility May emit poisonous fumes. May emit corrosive fumes.

Advice for firefighters

Alert Fire Brigade and tell them location and nature of hazard.

Wear breathing apparatus plus protective gloves in the event of a fire.

Fire/Explosion Hazard

Non combustible.

Not considered a significant fire risk, however containers may burn.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Minor Spills

Clean up all spills immediately.

Avoid contact with skin and eyes.

Major Spills

Moderate hazard.

CAUTION: Advise personnel in area.

Personal Protective Equipment advice is contained in Section 8 of the MSDS.

7. HANDLING AND STORAGE

Precautions for safe handling

Safe handling

Avoid all personal contact, including inhalation.

Wear protective clothing when risk of exposure occurs.

Other information

Store in original containers.

Keep containers securely sealed.

Conditions for safe storage, including any incompatibilities

DO NOT use aluminium, galvanised or tin-plated containers

Store in original package with label.

Check that containers are clearly labelled and free from leaks

Storage incompatibility

In presence of moisture, the material is corrosive to aluminium, zinc and tin producing highly flammable hydrogen gas.

Segregate from alcohol, water.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Appropriate engineering

If exposure to workplace dust is not controlled, respiratory protection is required; wear SAA approved dust respirator.

Personal protection

<u>Eye and face protection</u>	Chemical goggles/ mono-goggles.
<u>Skin and hand protection</u>	Wear protective gloves, e.g. PVC.
<u>Body protection</u>	Overalls.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	Crystalline powder
Colour:	White
Odour:	None
Melting Point:	770oC
Boiling Point:	Not applicable
Vapour Press kPa 025C:	Nil
Specific Gravity:	Not determined
Flashpoint (C):	Non flammable
Flammability Limits:	Non flammable

10. STABILITY AND REACTIVITY

Solubility in water:	Completely soluble in water
Reactivity	See section 7
Chemical stability	Product is considered stable under normal conditions. However it may unstable in the presence of incompatible materials.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition Products	See section 5

11. TOXICOLOGICAL INFORMATION

Inhaled

Persons with impaired respiratory function, airway diseases and conditions such as emphysema or chronic bronchitis, may incur further disability if excessive concentrations of particulate are inhaled. |The dust may cause sore throat, coughing.

Ingestion

Accidental ingestion of the material may be damaging to the health of the individual. Acute toxic responses to aluminium are confined to the more soluble forms.

Skin Contact

Irritating to skin.

The material may accentuate any pre-existing dermatitis condition

Open cuts, abraded or irritated skin should not be exposed to this material

Entry into the blood-stream through, for example, cuts, abrasions, puncture wounds or lesions, may produce systemic injury with harmful effects.

Eye

When applied to the eye(s) of animals, the material produces severe ocular lesions which are present twenty-four hours or more after instillation.

Chronic

Long term exposure to high dust concentrations may cause changes in lung function (i.e. pneumoconiosis) caused by particles less than 0.5 micron penetrating and remaining in the lung. A prime symptom is breathlessness.

Repeated minor skin contact may result in numbing of fingers. Repeated minor ingestion may cause phosphate deficiency; weakening bones.

TOXICITY IRRITATION

Intraperitoneal (Mouse) LD50: 274 mg/kg

Eye (rabbit): 10 mg/24h SEVERE

Oral (mouse) LD50: 6207 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity	No data available
Mobility	Completely soluble in water.
Environmental Fate	Do NOT allow excessive product to reach waterways, drains and sewers.
Bioaccumulation Potential	No information available on bioaccumulation for this product.
Environmental Impact	No Data Available

13. DISPOSABLE CONSIDERATIONS

General Information Dispose of in accordance with all local, state and federal regulations. All empty packaging should be disposed of in accordance with Local, State, and Federal Regulations or recycled/reconditioned at an approved facility.

14. TRANSPORT INFORMATION

Marine Pollutant	NO
HAZCHEM	Not Applicable

Land transport (ADG):

NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR):

NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee):

NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

15. REGULATORY INFORMATION

Constituent or material in this product are covered by Australian Inventory of Chemical Substances (AICS)

Poisons Schedule (Aust)	Not scheduled
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16. OTHER INFORMATION

The MSDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

STATEMENT OF DISCLAIMER:

This Material Safety Data Sheet has been developed according to WHS Code of Practice Preparation of Safety Data Sheets for Hazardous Chemicals Guidelines and written in accordance with GHS format.

All information is as accurate and up-to-date as possible. Since Manutec Pty Ltd cannot anticipate or control the conditions under which this information may be used, each user should review the information in the specific context of the intended application. Manutec Pty Ltd will not be responsible for damages of any nature resulting from use of or reliance upon this information.

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