

Safety Data Sheet ALUMINIUM AMMONIUM SULFATE Dodecahydrate

SDS no. EWMRSUBJ • Version 1.0 • Date of issue: 2026-01-24

SECTION 1: Identification

GHS Product identifier

Product name ALUMINIUM AMMONIUM SULFATE Dodecahydrate

Other means of identification

Product	Product Code
Aluminium Ammonium Sulfate AR Dodecahydrate (Ammonium alum)	AA033
Aluminium Ammonium Sulfate TG Dodecahydrate (Ammonium alum)	AT033

Recommended use of the chemical and restrictions on use

Laboratory chemical.

Supplier's details

Name	ChemSupply Australia Pty Ltd
Address	38-50 Bedford Street 5013 Gillman South Australia Australia
Telephone	08 8440 2000
email	www.chemsupply.com.au

Emergency phone number

CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)

SECTION 2: Hazard identification

General hazard statement

Not classified as dangerous goods according to the Australian Dangerous Goods Code (ADG).

Classified as Hazardous according to the Globally Harmonised System of classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

Classification of the substance or mixture

GHS classification in accordance with: UN GHS revision 7

- Serious eye damage/eye irritation, Cat. 2
- Skin corrosion/irritation, Cat. 2
- Specific target organ toxicity following single exposure, Cat. 3

GHS label elements, including precautionary statements

Pictograms

Safety Data Sheet

ALUMINIUM AMMONIUM SULFATE Dodecahydrate

SDS no. EWMRSUBJ • Version 1.0 • Date of issue: 2026-01-24



Signal word

Warning

Hazard statement(s)

H315
H319
H335

Causes skin irritation
Causes serious eye irritation
May cause respiratory irritation

Precautionary statement(s)

P261
P264
P271
P280
P302+P352
P304+P340
P305+P351+P338

Avoid breathing dust/fume/gas/mist/vapors/spray.
Wash hands thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection.
IF ON SKIN: Wash with plenty of water/soap
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Call a POISON CENTER/doctor/physician if you feel unwell.
If skin irritation occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.
Store in a well-ventilated place. Keep container tightly closed.
Store locked up.
Dispose of contents/container to an approved waste disposal facility

P312
P332+P313
P337+P313
P362+P364
P403+P233
P405
P501

SECTION 3: Composition/information on ingredients

Mixtures

Molecular weight	453.33
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Component	Identification	Weight %	Classifications
Aluminum ammonium sulfate dodecahydrate	CAS no.: 7784-26-1 EC no.: 232-055-3	<= 100 %	CLASSIFICATIONS: Eye damage/irritation, Cat. 2; Skin corrosion/irritation, Cat. 2; Specific target organ toxicity, single exposure, Cat. 3. HAZARDS: H315 - Causes skin irritation; H319 - Causes serious eye irritation; H335 - May cause respiratory irritation; H336 - May cause drowsiness or dizziness.

SECTION 4: First-aid measures

Description of necessary first-aid measures

General advice

First Aid Facilities: Maintain eyewash fountain in work area.

If inhaled

If inhaled, remove from contaminated area to fresh air immediately. Apply artificial respiration if not breathing. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

Safety Data Sheet

ALUMINIUM AMMONIUM SULFATE Dodecahydrate

SDS no. EWMRSUBJ • Version 1.0 • Date of issue: 2026-01-24

In case of skin contact	Rinse with plenty of water. Get medical attention if irritation develops and persists.
In case of eye contact	If contact with the eye(s) occurs, wash with copious amounts of water for approximately 15 minutes holding eyelid(s) open. Take care not to rinse contaminated water into the non-affected eye. If persistent irritation occurs, obtain medical attention.
If swallowed	Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. DO NOT INDUCE VOMITING. Seek immediate medical advice if effects persist.

Most important symptoms/effects, acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

Indication of immediate medical attention and special treatment needed, if necessary

For advice, contact the National Poisons Information Centre (Phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor.

SECTION 5: Fire-fighting measures

Suitable extinguishing media

May burn but do not ignite readily.

Small fire: Use dry chemical, CO₂, water spray or foam.

Large fire: Use water spray, fog or foam.

Specific hazards arising from the chemical

May liberate toxic fumes in fire (nitrogen oxides and sulfur oxides).

Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid substance contact. Avoid generation of dusts: do not inhale dusts.

Ensure supply of fresh air in enclosed rooms.

Wear protective clothing specified for normal operations (see Section 8)

Methods and materials for containment and cleaning up

Sweep up (avoid generating dust) and using clean non-sparking tools transfer to a clean, suitable, clearly labelled container for disposal in accordance with local regulations.

SECTION 7: Handling and storage

Precautions for safe handling

Avoid generation or accumulation of dusts.

Avoid contact with skin and eyes.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed and in a well-ventilated place. direct sunlight

Keep away from

SECTION 8: Exposure controls/personal protection

Appropriate engineering controls

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, gas, etc.) below recommended exposure limits.

Safety Data Sheet

ALUMINIUM AMMONIUM SULFATE Dodecahydrate

SDS no. EWMRSUBJ • Version 1.0 • Date of issue: 2026-01-24

Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.

Skin protection

Clean impervious clothing should be worn. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

Body protection

Footwear: Safety boots in industrial situations is advisory, foot protection should comply with AS 2210, Occupational protective footwear - Guide to selection, care and use.

Body Protection: Clean clothing or protective clothing should be worn, preferably with an apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

Respiratory protection

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable vapor/ mist filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements. Reference should be made to Australian Standards AS/ NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/ NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

SECTION 9: Physical and chemical properties

Basic physical and chemical properties

Physical state	Solid
Appearance	Colourless solid.
Color	No data available.
Odor	Odourless.
Odor threshold	No data available.
Melting point/freezing point	93 °C
Boiling point or initial boiling point and boiling range	200°C
Flammability	No data available.
Lower and upper explosion limit/ flammability limit	No data available.
Flash point	No data available.
Explosive properties	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Oxidizing properties	No data available.
pH	pH 2.6 (100 g/l H ₂ O)

Safety Data Sheet

ALUMINIUM AMMONIUM SULFATE Dodecahydrate

SDS no. EWMRSUBJ • Version 1.0 • Date of issue: 2026-01-24

Kinematic viscosity	No data available.
Solubility	Solubility in Water: Soluble in water.
Partition coefficient n-octanol/ water (log value)	No data available.
Vapor pressure	No data available.
Evaporation rate	No data available.
Density and/or relative density	Specific Gravity: ~ 0.7 - 0.8 (bulk).
Relative vapor density	No data available.
Particle characteristics	No data available.

Supplemental information regarding physical hazard classes

No data available.

Further safety characteristics (supplemental)

No data available.

SECTION 10: Stability and reactivity

Reactivity

Stable under normal conditions of storage and handling.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal use conditions.

Conditions to avoid

Avoid storing in direct sunlight and avoid extremes of temperature.

Incompatible materials

Strong bases, copper, aluminium, zinc.

Hazardous decomposition products

May liberate toxic fumes in fire (nitrogen oxides and sulfur oxides).

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Toxicology Information: Hazardous properties cannot be excluded but are unlikely when the product is handled appropriately. The following applies to aluminium compounds in general: After swallowing, the product is only slightly absorbed via the gastrointestinal tract. Serious disorders in man (from about 400 mg min.) phosphate metabolism, calcium metabolism. The following applies to ammonium salts in general: After swallowing, local irritation symptoms such as nausea, vomiting and diarrhoea may arise.

Systemic effect: After the uptake of very large quantities, may experience a drop in blood pressure, collapse, CNS disorders, spasms, narcotic conditions, respiratory paralysis and haemolysis.

Skin corrosion/irritation

May be irritating to skin. The symptoms may include redness, itching and swelling.

Safety Data Sheet

ALUMINIUM AMMONIUM SULFATE Dodecahydrate

SDS no. EWMRSUBJ • Version 1.0 • Date of issue: 2026-01-24

Serious eye damage/irritation

May be irritating to eyes. The symptoms may include redness, itching and tearing.

Respiratory or skin sensitization

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

Specific target organ toxicity (STOT) - single exposure

May cause respiratory irritation.

Specific target organ toxicity (STOT) - repeated exposure

Not classified based on available information.

Aspiration hazard

Not classified based on available information.

SECTION 12: Ecological information

Toxicity

Ecotoxicity: In the case of alkaline aluminium compounds, flocculation may cause mechanical damage in aquatic organisms.

SECTION 13: Disposal considerations

Disposal methods

Product disposal

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers.

Other disposal recommendations

Do not discharge this material into waterways, drains and sewers.

SECTION 14: Transport information

ADG (Road and Rail)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

SECTION 15: Regulatory information

Safety, health and environmental regulations specific for the product in question

Canadian Domestic Substances List (DSL)

Chemical name: Sulfuric acid, aluminum ammonium salt (2:1:1), dodecahydrate

CAS: 7784-26-1

Safety Data Sheet

ALUMINIUM AMMONIUM SULFATE Dodecahydrate

SDS no. EWMRSUBJ • Version 1.0 • Date of issue: 2026-01-24

SECTION 16: Other information

Further information/disclaimer

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Preparation information

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Standard for the Uniform Scheduling of Medicines and Poisons, Commonwealth of Australia

National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.'

Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals', July 2020.

Safe Work Australia, 'National Guide for Classifying Hazardous Chemicals', July 2020.

Safe Work Australia, Workplace Exposure Standards for Airborne Contaminants, December 2019

Safe Work Australia, Hazardous Chemical Information System (HCIS), hcis.safeworkaustralia.gov.au

IATA, Dangerous Goods Regulations (DGR)

IMO, International Maritime Dangerous Goods Code (IMDG)