

Infosafe No™ 3CH7R      Issue Date : January 2021      RE-ISSUED by CHEMSUPP

Product Name **ALUMINIUM AMMONIUM SULFATE Dodecahydrate**

Classified as hazardous

## 1. Identification

**GHS Product Identifier** ALUMINIUM AMMONIUM SULFATE Dodecahydrate  
**Company Name** CHEMSUPPLY AUSTRALIA PTY LTD (ABN 19 008 264 211)  
**Address** 38 - 50 Bedford Street GILLMAN  
 SA 5013 Australia  
**Telephone/Fax Number** Tel: (08) 8440-2000  
**Emergency phone number** CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)  
**E-mail Address** www.chemsupply.com.au

**Recommended use of the chemical and restrictions on use** Laboratory chemical.

<b>Other Names</b>	<u><b>Name</b></u>	<u><b>Product Code</b></u>
	ALUMINIUM AMMONIUM SULFATE Dodecahydrate	AA033
	AR	
	Ammonium alum	

### Other Information

ChemSupply Australia Pty Ltd does not warrant that this product is suitable for any use or purpose. The user must ascertain the suitability of the product before use or application intended purpose. Preliminary testing of the product before use or application is recommended. Any reliance or purported reliance upon ChemSupply Australia Pty Ltd with respect to any skill or judgement or advice in relation to the suitability of this product of any purpose is disclaimed. Except to the extent prohibited at law, any condition implied by any statute as to the merchantable quality of this product or fitness for any purpose is hereby excluded. This product is not sold by description. Where the provisions of Part V, Division 2 of the Trade Practices Act apply, the liability of ChemSupply Australia Pty Ltd is limited to the replacement of supply of equivalent goods or payment of the cost of replacing the goods or acquiring equivalent goods.

## 2. Hazard Identification

**GHS classification of the substance/mixture** Eye Damage/Irritation: Category 2A  
 Skin Corrosion/Irritation: Category 2  
 Specific target organ toxicity - Single Exposure Category 3 - Respiratory system  
**Signal Word (s)** WARNING  
**Hazard Statement (s)** H315 Causes skin irritation.  
 H319 Causes serious eye irritation.  
 H333 May be harmful if inhaled  
**Pictogram (s)** Exclamation mark



**Precautionary statement – Prevention** P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
 P264 Wash thoroughly after handling.  
 P271 Use only outdoors or in a well-ventilated area.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
**Precautionary statement – Response** Skin  
 P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
 P321 Specific treatment (see Safety Date Sheet).  
 P332+P313 If skin irritation occurs: Get medical advice/attention.

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**Precautionary statement – Storage**  
**Precautionary statement – Disposal**

P362 Take off contaminated clothing and wash before reuse.  
Inhaled  
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P312 Call a POISON CENTER or doctor/physician if you feel unwell.  
Eye  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.  
P501 Dispose of contents/container to an approved waste disposal plant.

### 3. Composition/information on ingredients

Ingredients	Name	CAS	Proportion
	Aluminium ammonium sulfate dodecahydrate	7784-26-1	100 %

### 4. First-aid measures

**Inhalation** 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.

**Ingestion** 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.

**Skin** Wash affected areas with copious quantities of water immediately. If persistent irritation occurs, obtain medical attention.

**Eye contact** Wash with large amounts of water for approximately 15 minutes, holding eyelids open. Seek medical attention if irritation develops or persists.

**First Aid Facilities** Maintain eyewash fountain and safety shower in work area.

**Advice to Doctor** Treat symptomatically based on judgement of doctor and individual reactions of the patient.

**Other Information** For advice, contact a Poisons Information Centre (Phone eg Australia 13 1126; New Zealand 0800 764 766) or a doctor.

### 5. Fire-fighting measures

**Hazards from Combustion Products** May liberate toxic fumes in fire (nitrogen oxides and sulfur oxides).

**Specific Methods** Use extinguishing media most appropriate for the surrounding fire. No limitations to the type of extinguishing media. May burn but do not ignite readily. Small fire: Use dry chemical, CO<sub>2</sub>, water spray or foam. Large fire: Use water spray, fog or foam.

**Precautions in connection with Fire** Wear SCBA and structural firefighter's uniform.

### 6. Accidental release measures

**Personal Precautions** Avoid substance contact. Avoid generation of dusts: do not inhale dusts. Ensure supply of fresh air in enclosed rooms.

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

**Clean-up Methods - Small Spillages** 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.

### 7. Handling and storage

**Precautions for Safe Handling** Avoid generation or accumulation of dusts. Avoid contact with skin and eyes.

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**Conditions for safe storage, including any incompatibilities** Keep container tightly closed and in a well-ventilated place. Keep away from direct sunlight

## 8. Exposure controls/personal protection

**Other Exposure Information** No exposure standards have been established for this product by Safe Work Australia, however, the TWA exposure standard for dusts/mists not otherwise specified is 10 mg/m<sup>3</sup>. All atmospheric contamination should be kept to as low a level as is workable. These Workplace Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These workplace exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity. The exposure value at the TWA is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week.

**Appropriate engineering controls** Maintain the concentrations values below the TWA. This may be achieved by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods.

**Respiratory Protection** Respirator protection is not required, however a dust mask should be worn.

**Eye Protection** Safety glasses with side shields or goggles should be worn as described in Australian Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.

**Hand Protection** Wear gloves of impervious material conforming to AS/NZS 2161: Occupational protective gloves - Selection, use and maintenance. Final choice of appropriate glove type will vary according to individual circumstances. This can include methods of handling, and engineering controls as determined by appropriate risk assessments. Avoid skin contact when removing gloves from hands, do not touch the gloves outer surface. Dispose of gloves as hazardous waste.

**Personal Protective Equipment** Personal protective equipment should not solely be relied upon to control risk and should only be used when all other reasonably practicable control measures do not eliminate or sufficiently minimise risk. Guidance in selecting personal protective equipment can be obtained from Australian, Australian/New Zealand or other approved standards.

**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** Wear suitable protective clothing and gloves to prevent skin contact.

**Hygiene Measures** Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

## 9. Physical and chemical properties

**Appearance** Colourless solid.

**Odour** Odourless.

**Melting Point** 93 °C

**Boiling Point** 200°C

**Solubility in Water** Soluble in water.

**Specific Gravity** ~ 0.7 - 0.8 (bulk).

**pH** pH 2.6 (100 g/l H<sub>2</sub>O)

**Flammability** Non combustible material.

**Molecular Weight** 453.33

## 10. Stability and reactivity

**Chemical Stability** Stable under normal use conditons.

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<b>Incompatible Materials</b>	Strong bases, copper, aluminium, zinc.
<b>Hazardous Decomposition Products</b>	May liberate toxic fumes in fire (nitrogen oxides and sulfur oxides).
<b>Hazardous Polymerization</b>	Will not occur.

## 11. Toxicological Information

<b>Toxicology Information</b>	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.
<b>Respiratory sensitisation</b>	Not classified based on available information.
<b>Skin Sensitisation</b>	Not classified based on available information.
<b>Germ cell mutagenicity</b>	Not classified based on available information.
<b>Carcinogenicity</b>	No evidence of carcinogenic properties.
<b>Reproductive Toxicity</b>	Not classified based on available information.
<b>STOT-single exposure</b>	Not classified based on available information.
<b>STOT-repeated exposure</b>	Not classified based on available information.
<b>Mutagenicity</b>	Not classified based on available information.

## 12. Ecological information

<b>Ecotoxicity</b>	Quantitative data on the ecological effect of this product are not available. In the case of alkaline aluminium compounds, flocculation may cause mechanical damage in aquatic organisms.
<b>Environmental Protection</b>	Do not allow material to enter drains or waterways.

## 13. Disposal considerations

<b>Disposal Considerations</b>	Whatever cannot be saved for recovery or recycling should be disposed of according to relevant local, state and federal government regulations.
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## 14. Transport information

<b>Transport Information</b>	Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.
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## 15. Regulatory information

<b>Regulatory Information</b>	Listed in the Australian Inventory of Chemical Substances (AICS). Not listed under WHS Regulation 2011, Schedule 10 - Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.
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## 16. Other Information

<b>Literature References</b>	'Standard for the Uniform Scheduling of Medicines and Poisons .', Commonwealth of Australia. National Road Transport Commission, 'Australian Code for the Transport of
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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'.  
Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand.  
Safe Work Australia, 'Hazardous Chemical Information System'.  
Safe Work Australia, 'National Code of Practice for the Labelling of Safe Work Hazardous Substances'.  
Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment'.

**Contact Person/Point**

Paul McCarthy Ph. (08) 8440 2000      **DISCLAIMER STATEMENT:**  
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**Empirical Formula  
& Structural  
Formula**

AlNH<sub>4</sub>(SO<sub>4</sub>)<sub>2</sub> · 12H<sub>2</sub>O

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