



Infosafe No™	1CH16	Issue Date : September 2018	RE-ISSUED by CHEMSUPP
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Product Name : **AMMONIUM SULFATE**

Not classified as hazardous

1. Identification

GHS Product Identifier AMMONIUM SULFATE

Company Name CHEM-SUPPLY PTY LTD (ABN 19 008 264 211)

Address 38 - 50 Bedford Street GILLMAN
SA 5013 Australia

Telephone/Fax Number Tel: (08) 8440-2000
Fax: (08) 8440-2001

Recommended use of the chemical and restrictions on use Fertilisers, water treatment, fermentation, fireproofing compositions, viscose rayon, tanning, food additive, manufacture of ammonium alum, galvanising iron, freezing mixtures, laboratory reagent.

Other Names	Name	Product Code
	AMMONIUM SULFATE LR	AL014
	AMMONIUM SULFATE AR	AA014
	AMMONIUM SULFATE CAPRO	AT346

Other Information

Chem-Supply 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 Chem-Supply 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 Chem-Supply 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 Not classified as hazardous according to the Approved Criteria for Classifying Hazardous Substances [NOHSC:1008(2004) 3rd Edition, Safe Work Australia].
Not classified as dangerous goods according to the Australian Dangerous Goods Code (ADG).

3. Composition/information on ingredients**Chemical Characterization** Solid

Ingredients	Name	CAS	Proportion	Hazard Symbol	Risk Phrase
	Ammonium Sulfate	7783-20-2	98-100 %		

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 with water and then give plenty of water to drink. DO NOT induce vomiting and seek medical attention if large amounts ingested.

Skin Wash affected areas with copious quantities of water. Remove contaminated clothing and wash before re-use. If persistent irritation occurs, obtain medical attention.

Eye contact Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. In all cases of eye contamination it is a sensible precaution to seek medical advice.

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

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

5. Fire-fighting measures

Suitable extinguishing media Use fire extinguishing media appropriate for surrounding environment. Use water spray, dry chemical, carbon dioxide, or appropriate foam.

Hazards from Combustion Products May evolve toxic fumes of nitrogen oxides and sulfur oxides in a fire.

Specific Methods Use measures suitable for extinguishing surrounding fire.

6. Accidental release measures



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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 remove to a suitable, clearly labelled container for disposal in accordance with local regulations.

7. Handling and storage

Precautions for Safe Handling	Avoid prolonged or repeated contact with skin, eyes and clothing . In case of insufficient ventilation, wear suitable respiratory equipment.
Conditions for safe storage, including any incompatibilities	Keep container tightly closed and in a cool, well-ventilated place Store away from oxidizing agents, incompatibles, direct sunlight, heat and sources of ignition.

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 ³ . All atmospheric contamination should be kept to as low a level as is workable.
Appropriate engineering controls	In industrial situations 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	Where ventilation is not adequate, respiratory protection may be required. Avoid breathing dust, vapours or mists. Respiratory protection should comply with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. Filter capacity and respirator type depends on exposure levels. In event of emergency or planned entry into unknown concentrations a positive pressure, full-facepiece SCBA should be used. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.
Eye 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.
Hand Protection	Hand protection should comply with AS 2161, Occupational protective gloves - Selection, use and maintenance.
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.
Body Protection	Wear suitable protective clothing and gloves to prevent skin contact. 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.
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

Form	Solid
Appearance	Colourless to white, fine crystals.
Odour	Slight odour of ammonia.
Melting Point	230 - 280 °C (decomposition)
Solubility in Water	Very soluble (760 g/L @ 20 °C).
Solubility in Organic Solvents	Insoluble in alcohol and acetone.
Specific Gravity	1.77
pH	~ 5 - 6 (50 g/l, H ₂ O, 20 °C)
Partition Coefficient: n-octanol/water	-5.1
Flammability	Non flammable.
Molecular Weight	132.14



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10. Stability and reactivity

Chemical Stability	Stable under normal use conditons.
Conditions to Avoid	Moisture. Light, heat, incompatibles.
Incompatible Materials	Strong oxidisers, strong bases. Alkali salts (chlorates and nitrates) combined with heat and acids, alkali metals, nitrites, sodium hypochlorite, potassium ammonium nitrate, potassium chlorate, potassium nitrite, sodium-potassium powder plus ammonium nitrate, sodium potassium alloy + ammonium nitrate. Substances should not contact either zinc or copper bearing materials. Reacts with alkali to release ammonia.
Hazardous Decomposition Products	Ammonia and oxides of nitrogen, sulfur and carbon.
Possibility of hazardous reactions	Ammonium sulfate reacts with alkali (zinc, copper bearing materials) releasing ammonia.
Hazardous Polymerization	Will not occur.

11. Toxicological Information

Acute Toxicity - Oral	LD50 (rat): 2840 mg/kg (IUCLID)
Ingestion	Causes irritation to the gastrointestinal tract. It presents little toxicity unless large amounts are ingested resulting in ammonia poisoning, in which case, vomiting and diarrhea are likely along with nausea. Other symptoms include digestive tract irritation, spasms, narcotic conditions, respiratory paralysis, drop in blood pressure and CNS disorders.
Inhalation	Causes irritation to the respiratory tract. Symptoms may include coughing and shortness of breath.
Skin	Contact causes irritation. Symptoms include redness, itching and pain.
Eye	Eye contact with material causes irritation, redness and pain.
Carcinogenicity	Not classified as a human carcinogen.
Mutagenicity	No evidence of mutagenic properties.

12. Ecological information

Persistence and degradability	No persistence/degradability data available for this product.
Bioaccumulative Potential	No bioaccumulation is to be expected (log P(o/w) <1.0).
Environmental Protection	Do not allow product to enter drains, waterways or sewers.
Acute Toxicity - Fish	Brachydanio rerio LC50: 420 mg/l /96h (IUCLID)
Acute Toxicity - Daphnia	Daphnia magna EC50: 129 mg/l /48h (IUCLID)

13. Disposal considerations

Disposal Considerations	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

Transport Information	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

Regulatory Information	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.
Poisons Schedule	Not Scheduled

16. Other Information

Literature References	'Standard for the Uniform Scheduling of Medicines and Poisons .', Commonwealth of Australia. Lewis, Richard J. Sr. 'Hawley's Condensed Chemical Dictionary 13th. Ed.', Rev., John Wiley and Sons, Inc., NY, 1997. National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road
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Safety Data Sheet

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and Rail 7th. Ed.', 2007.

Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals', 2011.

Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand, 2010.

Safe Work Australia, 'Approved Criteria for Classifying Hazardous Substances [NOHSC:1008 (2004)]'.

Safe Work Australia, 'Hazardous Substances Information System, 2005'.

Safe Work Australia, 'National Code of Practice for the Labelling of Safe Work Hazardous Substances (2011)'.

Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995) 3rd Edition]'.

Contact

Paul McCarthy Ph. (08) 8440 2000 **DISCLAIMER STATEMENT:**

Person/Point

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Empirical Formula & Structural Formula (NH4)2 SO4

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