



Infosafe No™	1CHIE	Issue Date : December 2019	RE-ISSUED by ABS
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Product Name : **AMMONIUM FERRIC SULFATE Dodecahydrate**

Not classified as hazardous

**1. Identification**

**GHS Product Identifier** AMMONIUM FERRIC SULFATE Dodecahydrate

**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

**Emergency phone number** CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)

**Recommended use of the chemical and restrictions on use** Medicine, textile dyeing (mordant), analytical chemistry and laboratory reagent.

**Other Names**

<u>Name</u>	<u>Product Code</u>
AMMONIUM IRON(III) SULFATE Dodecahydrate AR Ferric ammonium sulfate, Iron (III) ammonium sulfate, Ferric alum	AA059

**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** Classified as non-Hazardous according to the Globally Harmonised System of classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.  
Not classified as dangerous goods according to the Australian Dangerous Goods Code (ADG).

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

<b>Ingredients</b>	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>	<u>Hazard Symbol</u>	<u>Risk Phrase</u>
	Ammonium iron (III) sulfate dodecahydrate	7783-83-7	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. Immediately obtain 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 medical advice if effects persist.

**Skin** Wash affected areas with copious quantities of water. Remove contaminated clothing and wash before re-use. Seek medical advice if effects persist.

**Eye contact** Irrigate with copious quantity of water for 15 minutes. Seek medical assistance if symptoms persist.

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

**5. Fire-fighting measures**

**Hazards from Combustion Products** May emit toxic fumes of ammonia and oxides of sulfur.

**Specific Methods** No limitations to the type of extinguishing media. Use extinguishing media most appropriate for the



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<b>Specific hazards arising from the chemical</b>	surrounding fire. Material does not burn.
<b>Decomposition Temp.</b>	Loses water @ 230 °C
<b>Precautions in connection with Fire</b>	Wear SCBA and structural firefighter's uniform.

## 6. Accidental release measures

<b>Personal Precautions</b>	Evacuate the area of all non-essential personnel. Avoid substance contact. Avoid generation of dusts: do not inhale dusts. Ensure supply of fresh air in enclosed rooms.
<b>Personal Protection</b>	Use personal protective equipment listed in Section 8.
<b>Clean-up Methods - Small Spillages</b>	Sweep up (avoid generating dust) and remove to a suitable, clearly labelled container for disposal in accordance with local regulations.

## 7. Handling and storage

<b>Precautions for Safe Handling</b>	Avoid generation or accumulation of dusts. Do not breathe dust. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure. Wash hands and face thoroughly after working with material. Use with adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Keep away from incompatibles.
<b>Conditions for safe storage, including any incompatibilities</b>	Store in a cool, dry place. Keep containers closed at all times. Keep away from light
<b>Storage Temperatures</b>	Store between 2 - 8°C.

## 8. Exposure controls/personal protection

<b>Other Exposure Information</b>	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. A time weighted average (TWA) has been established for Iron salts, soluble (as Fe) (Safe Work Australia) of 1 mg/m <sup>3</sup> . 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. 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.
<b>Appropriate engineering controls</b>	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.
<b>Respiratory Protection</b>	
<b>Eye Protection</b>	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.
<b>Hand Protection</b>	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.
<b>Personal Protective Equipment</b>	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.
<b>Footwear</b>	Safety boots in industrial situations is advisory, foot protection should comply with AS 2210, Occupational protective footwear - Guide to selection, care and use.
<b>Body Protection</b>	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.



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**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**

<b>Form</b>	Solid
<b>Appearance</b>	Lilac to violet, efflorescent, transparent crystals.
<b>Odour</b>	Odourless.
<b>Decomposition Temperature</b>	Loses water @ 230 °C
<b>Melting Point</b>	39-41 °C
<b>Solubility in Water</b>	Soluble (1240 g/L @ 25 °C).
<b>Solubility in Organic Solvents</b>	Insoluble in alcohol.
<b>Specific Gravity</b>	1.71
<b>pH</b>	~1.8 (100 g/l, H <sub>2</sub> O, 20 °C)
<b>Flammability</b>	Non combustible material.
<b>Molecular Weight</b>	482.19
<b>Other Information</b>	Taste: Acid stypic.

**10. Stability and reactivity**

<b>Chemical Stability</b>	Stable, protect from light.
<b>Conditions to Avoid</b>	Moisture. Light, heat, incompatibles.
<b>Incompatible Materials</b>	Strong oxidizing agents, sulfuric acid.
<b>Hazardous Decomposition Products</b>	Ammonia and oxides of sulfur.
<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.
<b>Ingestion</b>	May cause acidosis. Large doses may cause irritation to the gastrointestinal tract with symptoms including of nausea, abdominal pain, vomiting, diarrhea and black stool. Pink urine discolouration is a strong indicator of iron poisoning. Lack of appetite, liver damage, renal failure, hypotension, cardiac failure, CNS failure, and may lead to coma and death.
<b>Inhalation</b>	Dust may cause irritation to the respiratory tract (nose, mouth, throat, lungs). Symptoms may include coughing, sore throat, laboured breathing and chest pain.
<b>Skin</b>	May be irritating to skin. May cause redness and pain.
<b>Eye</b>	Irritating to eyes. May cause redness and pain.
<b>Carcinogenicity</b>	No evidence of carcinogenic properties.
<b>Mutagenicity</b>	No evidence of mutagenic effects.

**12. Ecological information**

<b>Ecotoxicity</b>	Quantitative data on the ecological effect of this product are not available.
<b>Acute Toxicity - Fish</b>	The following applies to dissolved iron compounds in general: toxicity: 0.9 mg/l min. at pH 6.5 - 7.5; toxicity: 1 mg/l min. at pH 5.5 - 6.7; 50 mg/l iron upper limit for fish life. When iron ions flocculate in an alkaline medium, mechanical damage occurs in aquatic organisms. The following applies to ammonium ions in general: biological effects: fish: toxic as from 0.3 mg/l; nourishment for fish: toxic as from 0.3 mg/l.



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**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.

**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.

**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 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 Chemical 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****Person/Point**

Paul McCarthy Ph. (08) 8440 2000 **DISCLAIMER STATEMENT:**  
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**Empirical Formula & Structural Formula** FeNH<sub>4</sub>(SO<sub>4</sub>)<sub>2</sub>.12H<sub>2</sub>O

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