



Infosafe No™	1CH11	Issue Date : February 2014	RE-ISSUED by CHEMSUPP
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Product Name : **AMMONIUM FERROUS SULFATE hexahydrate**

Classified as hazardous

1. Identification

GHS Product Identifier AMMONIUM FERROUS SULFATE hexahydrate

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 Laboratory reagent, metallurgy, photography, analytical chemistry, polymerisation catalyst, dosimeters.

Other Names**Name****Product Code**

AMMONIUM IRON(II) SULFATE hexahydrate A.R.

AA078

AMMONIUM IRON(II) SULFATE hexahydrate L.R.

AL078

Ferrous ammonium sulfate

Mohr's salt

Iron (II) Ammonium Sulfate

Ammonium Iron (II) Sulfate

Additional Information

When used for laboratory chemical analysis, it has no poison schedule. If this compound is used in human or animal application then it may acquire a poison schedule of S6, S5, S4 or S2.

Other Information

EMERGENCY CONTACT NUMBER: +61 08 8440 2000

Business hours: 8:30am to 5:00pm, Monday to Friday.

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 Eye Damage/Irritation: Category 2
Skin Corrosion/Irritation: Category 2
Specific target organ toxicity Category 3 (respiratory tract irritation)

Signal Word (s) WARNING

Hazard Statement (s) H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

Pictogram (s) Exclamation mark**Precautionary statement – Prevention**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statement – Response

P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
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.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.



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3. Composition/information on ingredients

Chemical Solid

Characterization

Ingredients	Name	CAS	Proportion	Hazard Symbol	Risk Phrase
	Ammonium ferrous sulfate	7783-85-9	98.5-100 %	Xi	R36/37/38

4. First-aid measures

Inhalation Remove victim to fresh air. Employ artificial respiration if indicated. Seek medical attention.

Ingestion Rinse mouth thoroughly with water immediately. Give plenty of water to drink. Do not induce vomiting. Seek immediate medical assistance.

Skin Wash affected areas with copious quantities of water immediately. Remove contaminated clothing and wash before re-use. Seek medical attention.

Eye contact Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. Seek medical attention.

Advice to Doctor Consult Poisons Information Centre.

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

Specific Methods Use any means suitable for extinguishing surrounding fire.

Specific hazards arising from the chemical Not considered as fire/explosion hazard. Irritating and toxic ammonia gas may form in fires. Sealed containers may rupture when heated.

Precautions in connection with Fire Use protective clothing and breathing equipment for the surrounding fire.

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

Environmental Precautions Prevent contamination of soil and water.

7. Handling and storage

Precautions for Safe Handling Avoid generation or accumulation of dusts. Avoid ingestion and inhalation of material. Avoid contact with eyes, skin and clothing. Use with adequate ventilation.

Conditions for safe storage, including any incompatibilities Keep container tightly closed and in a cool, well-ventilated place

8. Exposure controls/personal protection

Other Exposure Information A time weighted average (TWA) has been established for Iron salts, soluble (as Fe) (Worksafe Aust) of 1 mg/m³. 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 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.



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Hand Protection	Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336. Hand protection should comply with AS 2161, Occupational protective gloves - Selection, use and maintenance.
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 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	Pale blue-green crystals or crystalline powder.
Odour	Odourless.
Melting Point	100 - 110 °C; decomposes.
Solubility in Water	Soluble (269 g/L @ 20 °C)
Solubility in Organic Solvents	Insoluble in alcohol.
Specific Gravity	1.86
pH	3.0 - 5.0 (50 g/l, H ₂ O, 20 °C)
Vapour Density (Air=1)	>1.0
Flammability	Non combustible material.
Molecular Weight	392.14
Other Information	Slowly oxidises and effloresces in air. Avoid light, heat and moisture. Deliquescent.

10. Stability and reactivity

Chemical Stability	Stable under ordinary conditions of use and storage. Slowly oxidises in moist air. Light and moisture sensitive.
Incompatible Materials	Strong oxidizing agents. Strong acids.
Hazardous Decomposition Products	May emit ammonia, oxides of sulfur, nitrogen and carbon.
Hazardous Polymerization	Will not occur.

11. Toxicological Information**Acute Toxicity - Oral** LD50 (rat): 3250 mg/kg.

Ingestion	Harmful if swallowed. Acute poisoning via ingestion may give the following symptoms: Gastrointestinal discomfort, nausea, diarrhoea, lack of appetite and vomiting. Symptoms of the ingestion of large amounts may be delayed for several hours and can include epigastric pain, cyanosis, central nervous system effects (CNS depression, restlessness, confusion, drowsiness, lethargy), hyperventilation, hyperglycemia/hypoglycemia, hypotension, haematemesis and possible circulatory failure. Hours or days after apparent recovery metabolic acidosis, convulsions and coma may occur. If the patient survives, symptoms of acute liver necrosis, kidney damage may develop and could lead to death due to hepatic coma. Pink discolouration in urine is a strong indicator of iron poisoning.
Inhalation	Causes irritation to the respiratory tract. Symptoms may include coughing, shortness of breath, and wheezing. May cause pulmonary edema.
Skin	Causes irritation to skin. Symptoms include redness, itching and pain.
Eye	Causes irritation to the eyes. Symptoms redness and pain.
Carcinogenicity	Not classified as a human carcinogen.
Mutagenicity	No evidence of mutagenic properties.



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12. Ecological information**Ecotoxicity** Quantitative data on the ecological effect of this product are not available.**13. Disposal considerations****Disposal Considerations** Dispose 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).
Poisons Schedule Not Scheduled**16. Other Information****Literature References**
'Standard for the Uniform Scheduling of Medicines and Poisons No. 4', Commonwealth of Australia, June 2013.
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.
'Labelling of Hazardous Workplace Chemicals, Code of Practice' Safe Work Australia.
Standards Australia 'AS 1940-2004 The Storage and Handling of Flammable and Combustible Liquids.
Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand, 2010.
Worksafe Australia, 'Approved Criteria for Classifying Hazardous Substances [NOHSC:1008(2004)]'.
Worksafe Australia, 'Hazardous Substances Information System, 2005'.
Worksafe Australia, 'National Code of Practice for the Labelling of Workplace Hazardous Substances (2011)'.
Worksafe Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)]'.**Contact Person/Point** Paul McCarthy Ph. (08) 8440 2000 **DISCLAIMER STATEMENT:**
All information provided in this data sheet or by our technical representatives is compiled from the best knowledge available to us. However, since data, safety standards and government regulations are subject to change and the conditions of handling and use, or misuse, are beyond our control, we make no warranty either expressed or implied, with respect to the completeness or accuracy to the information contained herein. Chem-Supply accepts no responsibility whatsoever for its accuracy or for any results that may be obtained by customers from using the data and disclaims all liability for reliance on information provided in this data sheet or by our technical representatives.**Empirical Formula & Structural Formula** (NH₄)₂SO₄FeSO₄.6H₂O**Other Information** Previously labelled as:
R36/37/38 Irritating to eyes, respiratory system and skin.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36 Wear suitable protective clothing.
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