Infosafe No™	1CH11	Issue Date : March 2019	RE-ISSUED by CHEMSUPP

Product Name : **AMMONIUM FERROUS SULFATE hexahydrate**

Not 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
Emergency phone number	CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)
Recommended use of the chemical and restrictions on use	Laboratory reagent, metallurgy, photography, anayltical 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

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 Characterization Solid

Ingredients

Name	CAS	Proportion	Hazard Symbol	Risk Phrase
Ammonium Iron (II) sulfate hexahydrate	7783-85-9	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 medical advice if effects persist.
Skin	Wash affected areas with copious quantities of water immediately. 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. If rapid recovery does not occur, obtain medical attention
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

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 incompatabilities	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. These methods should be used in preference to personal protective equipment.
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.
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, H2O, 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	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 irritaion to the respiratory tract. Symptoms may include coughing, shortness of breath, and wheezing. May cause pulmonary edema.
Skin	May causes irritation to skin. Symptoms include redness, itching and pain.
Eye	May causes irritation to the eyes. Symptoms redness and pain.
Carcinogenicity	Not classified as a human carcinogen.
Mutagenicity	No evidence of mutagenic properties.

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). 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 fot 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

(NH4)2SO4FeSO4.6H2O

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