Infosafe No™	1CHGR	Issue Date : February 2019	RE-ISSUED by CHEMSUPP

Product Name : **FERRIC AMMONIUM CITRATE**

Not classified as hazardous

1. Identification

GHS Product Identifier	FERRIC AMMONIUM CITRATE
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, blueprint photography, feed additive and laboratory reagent.

Other Names

Name	Product Code
Ammonium iron (III) citrate	
Iron (III) ammonium citrate	
Ammonium ferric citrate	
AMMONIUM IRON(III) CITRATE Brown LR	FL041
AMMONIUM IRON(III) CITRATE Green LR	FL024
Citric acid ammonium iron (III) salt, Iron ammonium citrate	

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
Information on Composition	Compounds of ammonia, iron and citric acid of undetermined structure. Brown - Contains about 9% ammonia, 16.5-22.5% iron and about 65% hydrated citric acid. Green - Contains about 7.5% ammonia, 14-16% iron and about 75% hydrated citric acid.

Ingredients

Name	CAS	Proportion	Hazard Symbol	Risk Phrase
Ferric ammonium citrate	1185-57-5	14-22.5 %		

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	Remove contaminated clothing and wash affected skin with soap and water. Seek medical advice if effects persist.
Eye contact	Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. Seek medical advice if effects persist.
First Aid Facilities	Maintain eyewash fountain and safety shower in work area.
Advice to Doctor	Treat symptomatically. 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	Toxic oxides of nitrogen, oxides of carbon or ammonia gas may be formed in fires.
Specific Methods	No limitations to the type of extinguishing media. Use measures suitable for extinguishing surrounding fire.
Specific hazards arising from the chemical	Material does not burn. Fire or heat may produce irritating, poisonous and/or corrosive gases. Containers may explode when heated. Runoff may pollute waterways.
Precautions in connection with Fire	Use suitable protective equipment for surrounding fire.

6. Accidental release measures

Personal Precautions	Avoid dust formation and avoid breathing dust. Avoid inhalation, contact with skin, eyes and clothing.
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	Keep away from incompatibles. Do not breathe dust. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure. Wear suitable protective clothing. Only use in well-ventilated areas.
Conditions for safe storage, including any incompatabilities	Store in cool place and out of direct sunlight. Store in well ventilated area. Keep containers closed at all times.
Other Information	Light senstive.

8. Exposure controls/personal protection

Occupational exposure limit values

Name	STEL		TWA		
	mg/m3	ppm	mg/m3	ppm	Footnote
Ferric ammonium citrate			1		Iron salts, soluble (as Fe)

Other Exposure Information	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/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.
Body Protection	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	Brown - Thin, transparent, garnet-red scales, reddish-brown granules or brownish-yellow powder. Green - Green transparent scales, pearls, granules or powder.
Odour	Odourless or slight ammonia odour.
Solubility in Water	Easily soluble (25 g/100ml @ 20 °C).
Solubility in Organic Solvents	Practically insoluble in alcohol.
Specific Gravity	1.8
pH	6 - 8 (10 g/L, H2O, 20 °C)
Flammability	Non combustible material.
Other Information	Saline, mildly ferruginous taste. Deliquescent, affected by light.

10. Stability and reactivity

Chemical Stability	Brown - Reduced to ferrous salt by light. Green - More readily reduced to ferrous salt by light than brown form. Very deiquescent; forms a solution on prolonged exposure to air.
Conditions to Avoid	Exposure to moisture. Light, heat, incompatibles.
Incompatible Materials	Strong oxidising agents, iodides, acacia preparations and tannins.
Hazardous Decomposition Products	Carbon monoxide, carbon dioxide, nitrogen oxides, ammonia iron and iron salts.
Possibility of hazardous reactions	Hazardous catalytic reactions involving iron compounds have been reported.
Hazardous Polymerization	Will not occur.

11. Toxicological Information

Acute Toxicity - Oral	LD50 (rat): > 2000 mg/kg
Ingestion	Ingestion can result in nausea, vomiting, abdominal pains, convulsions, diarrhea and black stool. Pink urine discolouration is a strong indicator of iron poisoning. Liver damage, coma and death may occur.
Inhalation	Inhalation of dust may cause irritation to the upper respiratory tract (mouth, nose, throat, lungs). Symptoms may include of coughing, nausea, vomiting and wheezing.
Skin	Mild irritant to skin due to acidic nature of ferric salts.
Eye	Mild irritant due to acidic nature of ferric salts. Prolonged or repeated exposure may cause a brownish discoloration of the eyes.
Carcinogenicity	No evidence of carcinogenic properties.
Chronic Effects	Uptake in large quantities of this material may cause a drop in blood pressure, collapse, CNS disorders, spasms, narcotic conditions, respiratory paralysis and haemolysis.
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	Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and 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 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 C6 H8 O7 • xFe • xH3 N

...End Of MSDS...