



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

<b><u>Name</u></b>	<b><u>CAS</u></b>	<b><u>Proportion</u></b>	<b><u>Hazard Symbol</u></b>	<b><u>Risk Phrase</u></b>
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.



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**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 incompatibilities** Store in cool place and out of direct sunlight. Store in well ventilated area. Keep containers closed at all times.

**Other Information** Light sensitive.

**8. Exposure controls/personal protection**

Occupational exposure limit values	Name	STEL		TWA		Footnote
		mg/m3	ppm	mg/m3	ppm	
	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/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.

**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.



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<b>Body Protection</b>	Guidance in selecting personal protective equipment can be obtained from Australian, Australian/New Zealand or other approved standards. 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.
<b>Hygiene Measures</b>	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>	Brown - Thin, transparent, garnet-red scales, reddish-brown granules or brownish-yellow powder. Green - Green transparent scales, pearls, granules or powder.
<b>Odour</b>	Odourless or slight ammonia odour.
<b>Solubility in Water</b>	Easily soluble (25 g/100ml @ 20 °C).
<b>Solubility in Organic Solvents</b>	Practically insoluble in alcohol.
<b>Specific Gravity</b>	1.8
<b>pH</b>	6 - 8 (10 g/L, H <sub>2</sub> O, 20 °C)
<b>Flammability</b>	Non combustible material.
<b>Other Information</b>	Saline, mildly ferruginous taste. Deliquescent, affected by light.

**10. Stability and reactivity**

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

**11. Toxicological Information**

<b>Acute Toxicity - Oral</b>	LD50 (rat): > 2000 mg/kg
<b>Ingestion</b>	Ingestion can result in nausea, vomiting, abdominal pains, convulsions, diarrhea and black stool. Pink urine discoloration is a strong indicator of iron poisoning. Liver damage, coma and death may occur.
<b>Inhalation</b>	Inhalation of dust may cause irritation to the upper respiratory tract (mouth, nose, throat, lungs). Symptoms may include of coughing, nausea, vomiting and wheezing.
<b>Skin</b>	Mild irritant to skin due to acidic nature of ferric salts.
<b>Eye</b>	Mild irritant due to acidic nature of ferric salts. Prolonged or repeated exposure may cause a brownish discoloration of the eyes.
<b>Carcinogenicity</b>	No evidence of carcinogenic properties.
<b>Chronic Effects</b>	Uptake in large quantities of this material may cause a drop in blood pressure, collapse, CNS disorders, spasms, narcotic conditions, respiratory paralysis and haemolysis.
<b>Mutagenicity</b>	No evidence of mutagenic properties.

**12. Ecological information**

<b>Ecotoxicity</b>	Quantitative data on the ecological effect of this product are not available.
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**13. Disposal considerations**

<b>Disposal Considerations</b>	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.
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**14. Transport information**

<b>Transport Information</b>	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**

<b>Regulatory Information</b>	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.
<b>Poisons Schedule</b>	Not Scheduled

**16. Other Information**

<b>Literature References</b>	<p>'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]'.</p>
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**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

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