



Infosafe No™	1CH3D	Issue Date : May 2015	RE-ISSUED by CHEMSUPP
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Product Name : **IRON (III) NITRATE Nonahydrate**

Classified as hazardous

1. Identification

GHS Product Identifier IRON (III) NITRATE Nonahydrate

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 Mordant in dyeing, weighting silks, tanning, analytical reagent, laboratory reagent, oxidising agent and corrosion inhibitor.

Other Names	Name	Product Code
	IRON(III) NITRATE Nonahydrate AR	FA006
	IRON(III) NITRATE Nonahydrate LR	FL006
	Ferric nitrate Nonahydrate	

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 1
Skin Corrosion/Irritation: Category 1A

Signal Word (s) DANGER

Hazard Statement (s) H314 Causes severe skin burns and eye damage.

Pictogram (s) Corrosion



Precautionary statement – Prevention P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P264 Wash thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statement – Response P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
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.
P310 Immediately call a POISON CENTER or doctor/physician.
P363 Wash contaminated clothing before reuse.
P405 Store locked up.

Precautionary statement – Storage



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Other Information Hours or days after apparent recovery, metabolic acidosis, convulsions and coma may occur. If the patient survives, symptoms of acute liver necrosis may develop and could lead to death due to hepatic coma.

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

<u>Name</u>	<u>CAS</u>	<u>Proportion</u>	<u>Hazard Symbol</u>	<u>Risk Phrase</u>
Iron (III) Nitrate nonahydrate	7782-61-8	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. Give plenty of water to drink. Do not induce vomiting. Seek immediate medical assistance.

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

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

First Aid Facilities Maintain eyewash fountain and safety shower in work area.

Advice to Doctor Consult Poisons Information Centre.

Other Information For advice, contact a Poisons Information Centre (Phone eg Australia 13 1126; New Zealand 0800 764 766) or a doctor at once.

5. Fire-fighting measures

Suitable extinguishing media Use water spray, dry chemical, carbon dioxide, or appropriate foam.

Hazards from Combustion Products May liberate toxic fumes in fire including nitrous gases, nitrogen oxides, iron oxides.

Hazchem Code 2X

Decomposition Temp. ~125 °C (release of crystalline water @ ~100 °C).

Precautions in connection with Fire Wear SCBA and chemical splash suit. Structural firefighter's uniform will provide limited protection.

6. Accidental release measures

Personal Precautions Evacuate the area of all non-essential personnel. Avoid inhalation, contact with skin, eyes and clothing. 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 and remove to a suitable, clearly labelled container for disposal in accordance with local regulations. Do not use rags, sawdust or other combustible absorbents to wipe up spilled material.

Environmental Precautions Use appropriate containment to avoid environmental contamination. Prevent from entering into drains, ditches, rivers or the sea.

7. Handling and storage

Precautions for Safe Handling Avoid substance contact and generation and inhalation of dust.

Conditions for safe storage, including any incompatibilities Store in a cool, dry place. Store in well ventilated area. Store away from combustible materials. Keep containers closed at all times.

Corrosiveness Solutions in water are slightly corrosive to metals.

Storage Regulations Refer Australian Standard AS 3780-1994 'The storage and handling of corrosive substances'.

8. Exposure controls/personal protection



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Occupational exposure limit values	Name	STEL		TWA		Footnote
		mg/m3	ppm	mg/m3	ppm	
	Iron (III) Nitrate nonahydrate			1.0		
Other Exposure Information	A time weighted average (TWA) has been established for Iron salts, soluble (as Fe) (Safe Work Australia) of 1 mg/m ³ . 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. 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. Recommendation: Nitrile rubber gloves					
Personal Protective Equipment	Final choice of personal protective equipment will depend on individual circumstances and/or according to risk assessments undertaken.					
Footwear	Safety boots in industrial situations is advisory, foot protection should comply with AS 2210, Occupational protective footwear - Guide to selection, care and use. Recommendation: Rubber boots.					
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.					

9. Physical and chemical properties

Form	Solid
Appearance	Pale-violet crystals.
Odour	Weak of nitric acid.
Decomposition Temperature	~125 °C (release of crystalline water @ ~100 °C).
Melting Point	47.2 °C (decomposes)
Solubility in Water	Soluble.
Solubility in Organic Solvents	Freely soluble in alcohol and acetone. Slightly soluble in cold concentrated HNO ₃ .
Specific Gravity	1.684
pH	~1.3 (100 g/l, H ₂ O, 20 °C)
Flammability	Not combustible but assists combustion of other substances.
Molecular Weight	404.00
Oxidising Properties	Has been shown not to be oxidising in a test following Directive 67/548/EEC (Method A17, oxidising properties).

10. Stability and reactivity

Chemical Stability	Hygroscopic, sensitive to moisture.
Conditions to Avoid	Incompatibles.
Incompatible Materials	Risk of explosion with: dimethyl sulfoxide. Increased reactivity with: organic combustible substances, reducing agents, powdered metals.
Hazardous Decomposition Products	May liberate toxic fumes in fire including nitrous gases, nitrogen oxides, iron oxides.
Hazardous Polymerization	Will not occur.



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11. Toxicological Information**Acute Toxicity - Oral** LD50 (rat): 3.25 g/kg (Smyth).**Ingestion** May cause irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract, gastrointestinal discomfort, bloody diarrhoea and vomiting. Effects of ingestion of large amounts may be delayed for several hours and can include epigastric pain, hematemesis, possible circulatory failure and collapse.**Inhalation** Inhalation of dust causes irritation to mucous membranes and respiratory tract. Symptoms include coughing and dyspnoea (shortness of breath).**Skin** Causes skin burns.**Eye** Risk of serious eye damage.**Carcinogenicity** No evidence of carcinogenic properties.**Health Hazard** The following applies to nitrites/nitrates in general: methaemoglobinaemia after the uptake of large quantities.

The following applies to soluble iron compounds: nausea and vomiting after swallowing. The absorption of large quantities is followed by cardiovascular disorders. Toxic effect on liver and kidneys.

Chronic Effects The continued administration of medicinal amounts may cause constipation.**Mutagenicity** No evidence of mutagenic properties.**12. Ecological information****Persistence and degradability** Methods for the determination of biodegradability are not applicable to inorganic substances.**Other Adverse Effects** When iron ions flocculate in an alkaline medium, mechanical damage occurs in aquatic organisms. The following applies to nitrates in general: may contribute to the eutrophication of water supplies. Hazard for drinking water.**Environmental Protection** Do not allow to enter waters, waste water, or soil!**Acute Toxicity - Fish** LC50 (L. idus): 10 - 20 mg/l.

The following applies to dissolved iron compounds in general: fish: toxic as from 0.9 mg/l at pH 6.5 - 7.5; lethal as from 1 mg/l at pH 5.5 - 6.7; 50 mg/l iron upper limit for fish life.

The following applies to nitrates in general: may contribute to the eutrophication of water supplies.

Hazard for drinking water.

LC50 >500 mg/l

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** Dangerous goods of Class 8 (Corrosive) are incompatible in a placard load with any of the following: Class 1, Class 4.3, Class 5, Class 6, if the Class 6 dangerous goods are cyanides and the Class 8 dangerous goods are acids, Class 7; and are incompatible with food and food packaging in any quantity.**U.N. Number** 3260**UN proper shipping name** CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.**Transport hazard class(es)** 8**Hazchem Code** 2X**Packaging Method** 3.8.8**Packing Group** II**IERG Number** 37**15. Regulatory information****Regulatory Information** Listed in the Australian Inventory of Chemical Substances (AICS).**Poisons Schedule** Not Scheduled



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16. Other Information**Literature
References**

'Standard for the Uniform Scheduling of Medicines and Poisons No. 6', Commonwealth of Australia, February 2015.
 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 Substances 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**

Fe(NO₃)₃.9H₂O
 ...End Of MSDS...

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