

Aquapac Pty Ltd

ABN 36 114 118 311

Water Treatment & Specialty chemicals

MATERIAL SAFETY DATA SHEET

Product: Ferric Nitrate Solution

Company Details

Supplier: Aquapac Pty Ltd
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Prestons NSW 2170
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Emergency Telephone No.:
Business Hours: 02 9826 0201
After Hours: 000 Fire brigade or Police

IDENTIFICATION

U.N. Number: 3264
Hazchem: 2X
EPG: 37
Class: 8
Poisons Schedule: N/A
Packaging Group: II

Classified as hazardous according to criteria of NOHSC

Ingredients

Chemical Entity	CAS No.	Proportion
Ferric Nitrate Solution	10421-48-4	33 - 47%
Water	7732-18-5	balance

Other Names

Ferric Nitrate Solution $FE(NO_3)_3 + Water$

Uses

Chemical intermediate, water treatment agent, pH adjuster.

Physical Description / Properties

Appearance:	Brown liquid	Specific Gravity:	1.42 – 1.46
Flash point:	N/A	ph (5% solution)	approx 2 (0.1M)
Boiling point (°C):	> 100 C	Solubility in Water (g/L):	soluble
Melting Point (°C):	N/A		
Vapour pressure:	N/A		

Other Properties

Odour: Odourless
Solubility: Completely soluble in water

Doc Title: MSDS Ferric Nitrate Solution
Version: 2.0 CURRENT
Authorised by: WS

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HEALTH HAZARD INFORMATION

Health Effects

Symptoms that may arise if the product is mishandled are:

Acute

Swallowed May cause excessive urination and diarrhea. May cause corrosive damage to gastrointestinal tract. Extreme cases may show cyanosis, falling blood pressure, acidosis, shock, convulsions and possibly death.

Eye Liquid will cause strong irritation..

Skin Liquid may cause strong irritation or corrosion of tissue. Mist may cause irritation.

Inhaled Liquid may cause strong irritation or corrosion of tissue. Mist may cause irritation.

Chronic Effects

Repeated or prolonged skin contact may lead to irritant contact dermatitis.

As with any chemical - ingestion, inhalation, and prolonged or repeated skin contact should be avoided by good occupational work practice.

First Aid

Swallowed Rinse mouth thoroughly with water immediately. Give 1 – 3 cups of milk or water to drink. Seek medical attention immediately. Induce vomiting by usual means.

Eye Immediately irrigate with copious quantities of water for at least 15 minutes. Eyelids to be held open. Seek immediate medical assistance for any symptoms.

Skin Immediately wash with copious amounts of water for at least 15 minutes. Remove contaminated clothing and wash before re-use. Seek medical advice for symptoms.

Inhalation Remove victim from exposure - avoid becoming a casualty. Seek medical advice.

Poison Information Centres in each State capital city can provide additional assistance.

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Advice to Doctor

Treat symptomatically.

PRECAUTIONS FOR USE

Exposure Standards (for atmospheric contaminants in the occupational environment)

No value assigned for this product by the NOHSC (Workcover).

TWA		STEL	
ppm	mg/m ³	ppm	mg/m ³

Engineering Controls

Maintain concentration below recommended exposure limit. Use in a well-ventilated area. Avoid generating and inhaling mists and aerosols. Keep containers closed when not in use. If risk of overexposure exists, wear SAA approved respirator to comply with Australian Standards, ensuring correct fit to obtain adequate protection.

Personal Protection

Eyes: The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate.

Skin: Rubber or PVC gloves, overalls or PVC suit, safety or rubber boots

Respiratory: If mist is generated the use of a air fed respirator is recommended.

Avoid contact with eyes and skin. Avoid prolonged or repeated exposure. Always wash hands before smoking, eating, drinking or using the toilet.

Flammability

Not combustible material.

SAFE HANDLING INFORMATION

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Storage and Transport

Classified as a Dangerous Good for the purposes of transport.

Separate from combustible, organic or any other oxidisable materials. Avoid storing on wooden floors. Keep containers closed.

Use only plastic (PE, PP, PVC) or fibreglass containers/vessels – corrosive to mild and stainless steels. Other tanks should be lined with chemical resistant materials. Pumps should also be lined with resistant materials.

Spills

Clear area of all unprotected personnel. Wear protective equipment to prevent skin and eye contamination including breathing apparatus.

Keep spills away from flammable materials.

Do not allow spill material to enter the environment. Neutralise spill then contain material using inert absorbent material eg vermiculite. Place into suitable labelled containers and hold for waste disposal. Wash area down with excess water once removed.

Disposal

Refer to State and Land Management Authority and relevant Environmental Protection Authority.

Fire / Explosion Hazards

Conditions to avoid:

Stable under normal conditions. Avoid evaporation to dryness. Residue will decompose below 100C yielding toxic nitrogen oxide gases. Prior to and during decomposition the solid is a serious fire hazard (oxidizer).

Would expect nitrogen oxide gases to be evolved in fire.

Materials to avoid:

Separate from combustible, organic or any other oxidisable materials. Avoid storing on wooden floors. Keep containers closed.

Hazardous Decomposition Products:

May produce nitrogen oxide gases.

Extinguishing Media:

Fire fighters should wear full protective clothing including self-contained breathing apparatus. In case of fire use water to cool fire exposed containers. Dilute with water if flammable materials are present to prevent evaporation to dryness. Flood area with water.

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OTHER INFORMATION

Toxicity

Toxicology:

LD50 (Oral rat) : 3250 mg?kg – dry, nonahydrate form.

Risk Statement:

R22 Harmful if swallowed

R36/37/38 Irritating to eyes, respiratory system and skin.

Safety Statement:

S23 Do not breathe vapour.

S24/25 Avoid contact with skin and eyes.

S7/9 Keep container tightly closed and in a well ventilated place.

S26 In case of contact with eyes, rinse immediately with plenty of water and Seek medical advice.

S27 Take off immediately all contaminated clothing.

S44 If you feel unwell, contact a doctor or Poisons Information Centre immediately (show the label where possible).

Hazard Category: X1

Harmful, Irritant, Corrosive

Company Disclaimer

All information contained in this data sheet is as accurate and up-to-date as possible. Since Aquapac Pty Ltd cannot anticipate or control the conditions under which this information may be used, each user should review the information in the specific context of the intended application.

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