

Safety Data Sheet

FOLIA FERRO

SDS No: SDS199/000

Effective Date: 15/09/2022

Revision no: 000

Product Code: 199

SECTION 1

COMPANY AND CHEMICAL PRODUCT IDENTIFICATION

Product Name: FOLIA Ferro

Chemical Identifier: Iron (II) Nitrate

Product Use: Fertiliser

Restrictions on use: Agriculture

Supplier:

In Line Trading 112 (Pty) Ltd. (Co. Reg. No. 2003/008663/07)

Cedar Lake Industrial Estate,

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Emergency Contact Numbers

Griffon Poison Information:

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SECTION 2

HAZARDS IDENTIFICATION

Classification as defined by Regulation (EC) 1272/2008 [CLP] EU & SANS 10234:2008

Hazard Classes	Hazard Category	Hazard Statement Code	Hazard Statements
Health			
Acute toxicity (oral)	5	H303	May be harmful if swallowed
Acute toxicity (dermal)	-	-	-
Acute toxicity (inhalation)	-	-	-
Skin corrosion/irritation	2	H315	Causes skin irritation
Serious eye damage/eye irritation	2A	H319	Causes serious eye irritation
Reproductive toxicity	-	-	-
STOT RE	-	-	-
Environmental			
Aquatic (acute)	-	-	-
Aquatic (chronic)	-	-	-

Label elements: labelling as defined by Regulation (EC) 1272/2008 [CLP] EU & SANS 10234:2008

Hazard pictograms



Signal word - Warning

Precautionary statements

P102	Keep out of reach of children.
P264+P265	Wash hands thoroughly after handling. Do not touch eyes.
P280	Wear protective gloves and eye protection.
P301+P317	IF SWALLOWED: Get medical help.
P302+P352	IF ON SKIN: Wash with plenty of water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
P332+P317	If skin irritation persists: Get medical help.
P337+P317	If eye irritation persists: Get medical help.
P362+P364	Take off contaminated clothing and wash it before reuse.
P501	Dispose of contents/container in accordance with local regulations.

Special labelling of certain mixtures – None known

Other hazards – None known

Toxicity: Classification according to GHS: Category 5

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture

Declared Active Ingredients:

Chemical name	CAS No.	EC No.	Conc. %w/w	Classification Regulation (EC) 1272/2008
Iron (II) Nitrate Hexahydrate	14013-86-6		30 – 50	H303, H315, H319

SECTION 4 FIRST AID MEASURES

Remove the victim from the area of exposure. Wash off remaining material with plenty of water. In the event of any complaints or symptoms, avoid further exposure. Immediately consult a doctor.

INHALATION: Remove person from contaminated area to fresh air and assist breathing as needed. Seek medical attention if irritation persists.

SKIN: Remove contaminated clothing and shoes. Gently wipe off excess chemical. Wash skin gently and thoroughly with water and non-abrasive soap. Obtain medical attention if irritation persists.

EYES: Flush eyes with clean water for at least 15 – 20 minutes. Lift eyelids to facilitate irrigation. If present, remove contact lenses after 5 minutes and continue rinsing. If eye irritation persists, seek medical attention.

INGESTION: Seek medical attention or call a poison control centre for treatment advice. Do not induce vomiting unless instructed to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person. If the person is alert, rinse mouth thoroughly with water and give 2 to 3 glasses of water to drink.

IMPORTANT ACUTE EFFECTS: May be harmful if swallowed.
Causes skin irritation.
Causes serious eye irritation.

IMPORTANT DELAYED EFFECTS: None known.

NOTE TO PHYSICIAN: This product contains Ferrous Sulphate Heptahydrate, treat symptomatically and supportively.

SECTION 5
FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Use dry chemical, water fog or foam.

Unsuitable Extinguishing Media: High volume water jet.

Specific hazards: None.

Special Fire Fighting Procedures: Remove spectators from surrounding area. Isolate the fire area and evacuate all personnel downwind of the fire. Fight fire from maximum distance and use unmanned hose holder or monitor nozzles. Keep upwind. Remove container from fire area if possible and without risk. Do not use high volume water jet, due to contamination risk. Do not scatter the burning material. Water can be used to cool unaffected containers but must be contained for later disposal. Contain fire control agents for later disposal. Avoid pollution of waterways by run-off from the site.

Personal protective equipment: Wear NIOSH/MSHA approved self-contained breathing apparatus and full protective gear.

SECTION 6
ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid contact with skin, eyes, and mouth. Do not breathe in spray mist or fumes. Ventilate area of spill or leak, especially in contained areas.

Protective equipment: Refer to Section 8 for personal protective equipment to be worn during containment and clean-up of a spill involving this product.

Emergency procedures: Alert firefighting personnel, evacuate unprotected personnel and animals.

Environmental Precautions: Prevent spilled product from entering sewers, waterways or ground water. Any spillages or uncontrolled discharges into water sources should be reported immediately to the police and the Department of Water/Environmental Affairs.

Methods & Materials for Containment: Contain spilled product by diking area with sand or earth.

Methods & Materials for Clean-up: Cover contained spill with an inert absorbent material such as sand, vermiculite, earth or other appropriate material. Vacuum, scoop, or sweep up material and place the material into a clean, dry, sealable container. Label containers with the contents and dispose of according to local regulations. Do not place spilled material back in original container. Do not re-use spill material.

Collect washings and add to the drums already collected. Do not flush spilled material or washings into drains or waterways. To decontaminate the spill area, tools and equipment, wash with water and suitable detergent. See section 13 for disposal considerations.

SECTION 7 **HANDLING AND STORAGE**

HANDLING

Precautions for safe handling:

Avoid contact with skin, eyes, and mouth. Ensure adequate ventilation during handling and use. Do not handle broken packages without protective equipment. Immediately clean up spills that occur during handling. Keep containers closed when not in use.

General occupational hygiene:

Practice good hygiene when using this material. Wash hands before eating, drinking, chewing gum, smoking, using the toilet or applying cosmetics. Worker should shower at the end of each workday. Launder all clothing before it is re-used

STORAGE

Conditions for safe storage:

Keep out of reach of unauthorised persons, children and animals. Store in its original, labelled container, tightly closed, in an isolated, dry, cool and well-ventilated area. Avoid direct sunlight for prolonged periods, don't let product freeze. Not to be stored next to foodstuffs, feed and water supplies.

Incompatible substances and mixtures: Strong oxidizing agents.

Packaging material:

5 L plastic drums packed 4 per box and 25 L plastic drums.

SECTION 8 **EXPOSURE CONTROLS AND PERSONAL PROTECTION**

Occupational exposure limits:

No occupational exposure limits have been determined for the significant ingredients in this product.

ENGINEERING CONTROLS:

It is essential to provide adequate ventilation. The measures appropriate for a particular worksite depend on how this material is used and on the extent of exposure. Local Exhaust: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OELs or other specified exposure limits. Local exhaust ventilation is preferred. Ensure that control systems are properly designed and maintained. Comply with occupational safety, environmental, fire, and other applicable regulations.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection:	For most well-ventilated conditions, no respiratory protection should be needed. If used in a poorly ventilated area, use a NIOSH approved air-purifying respirator.
Hand Protection:	The use of chemically protective gloves is recommended to prevent against skin contact.
Eye Protection:	The use of chemical safety goggles is recommended to prevent against eye contact. Contact lenses are not protective eye devices.
Skin and Body Protection:	Wear appropriate protective clothing; boots, hat and equipment to prevent repeated or prolonged skin contact with this substance.
Emergency eyewash:	Where there is any possibility that a handler's eyes may be exposed to this substance; an eye wash fountain should be provided or appropriate alternative within the immediate work area for emergency use.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Property	Value/description	Method
Physical state	Liquid	Visual
Colour	Light Brown	Munsell
Odour	Slight acidic	Organoleptic
pH (1% aqueous dilution)	4.3 – 4.7	CIPAC MT 75.3
Melting/Freezing point	Not available	
Boiling point	Not available	
Flash point	Not available	
Flammability	Not available	
Vapour pressure	Not available	
Relative Vapour Density	Not available	
Density	1.27	Pycnometer
Solubility	Not available	
n-Octanol/Water partition coefficient	Not available	
Auto-ignition temperature	Not available	
Decomposition temperature	Not available	
Viscosity	Not available	
Explosive properties	Not explosive	
Oxidising properties	Not oxidative	

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability:	The product is stable for two years at ambient temperature and pressure, under normal storage and handling conditions. Avoid storage under extreme temperatures and conditions. Store below 50 °C, preferably below 30 °C, and not for prolonged periods in direct sunlight.
Reactivity:	Stable and non-reactive under normal conditions
Possibility of Hazardous Reactions:	No data available.
Conditions to Avoid:	Extreme heat or exposure to flames.
Incompatible Materials:	Strong oxidizing agents.
Hazardous Decomposition Products:	None known.

SECTION 11

TOXICOLOGICAL INFORMATION

GHS Classification: May be harmful if swallowed (H303)
Causes skin irritation (H315)
Causes serious eye irritation (H319)

Toxicity	Effective dose/ concentration	Value	Species	Method
Acute Oral	LD ₅₀	3619 mg/kg	Rat	GHS ATE Calculation
Acute Dermal	LD ₅₀	Not classified	Rabbit	
Acute Inhalation	LC ₅₀	Not classified	Rat	
Skin irritation	Causes skin irritation			
Eye damage/irritation	Causes serious eye irritation			
Skin sensitization	Not classified as a skin sensitizer			
Respiratory sensitization	Not known to be a respiratory sensitizer			
Mutagenicity/Genotoxicity:	Not classified as a mutagen and not genotoxic			
Carcinogenicity	Not classified as a carcinogen			
Reproductive toxicity	Not classified as a reproductive toxicant			
Single target organ toxicity:	Not classified as a single target organ toxicant			
Chronic effects (e.g developmental)	None known			

SECTION 12 ECOLOGICAL INFORMATION

GHS Classification: Not classified

Toxicity	Effect dose/ concentration	Value	Test duration	Species	Method
Aquatic Fish Crustacea Algae	LC ₅₀ NOEC EC ₅₀ NOEC EC ₅₀	Not available	-	-	-
Terrestrial Birds Bees Earthworms/Arthropods	LD ₅₀ LC ₅₀ LD ₅₀ (contact) LD ₅₀ (oral) -	Not available	-	-	-

ENVIRONMENTAL EFFECTS

Persistence and degradability:

Persistence is unlikely.

Bio-accumulative Potential:

Low bio-accumulation potential.

Mobility in soil:

Due to its low bio-accumulative potential, it is mobile in the soil.

Other adverse effects:

None known.

SECTION 13
DISPOSAL CONSIDERATIONS

Hazardous waste according to Directive 2008/98/EC (waste framework directive).

Waste: Open dumping or burning of this product is prohibited. Waste resulting from the use of this product cannot be reused or re-processed. Never pour untreated waste or surplus product into public sewers or where there is any danger of run-off or seepage into water systems. Do not contaminate rivers, dams or any other water sources with the product or used containers. Comply with local legislation applying to waste disposal. The product may be taken to a registered waste disposal site or incineration plant.

Container: Emptied containers retain product residues. Do not re-use the empty container for any other purpose. Triple rinse empty containers by inverting the empty container over the spray or mixing tank and allow draining for at least 30 seconds after the flow has slowed down to a drip. Thereafter, rinse the container three times with a volume of water equal to a third of that of the container. Add the rinsing to the contents of the spray tank before destroying the container in the prescribed manner. Destroy the container by perforating and flattening and dispose of through an approved waste dump site, incineration plant or recycling company. Observe all labelled safeguards until container is destroyed.

SECTION 14
TRANSPORT INFORMATION

UN Number: Not Regulated

Road Transport ADR/IRD:

Class: Not classified

Packaging group: Not applicable

UN Proper Shipping Name: Not applicable

Maritime Transport IMDG/IMO:

Class: Not classified

Packaging group: Not applicable

UN Proper Shipping Name: Not applicable

Marine Pollutant (Y/N): No

Air Transport IATA/ICAO:

Class: Not classified

Packaging group: Not applicable

UN Proper Shipping Name: Not applicable

Special/Environmental Precautions: None.

Transport in bulk: Not available.

SECTION 15
REGULATORY INFORMATION

Safety, health and environmental regulations/legislation for the mixture: OSHA 1993 Regulations for Hazardous Chemical Substances.

Relevant information regarding restrictions: None.

EU regulation: Regulation EC1272/2008

Other national regulations: None.

Chemical Safety Assessment carried out: No chemical safety assessment was carried out for this product.

SECTION 16
OTHER INFORMATION

PACKAGING: Packed in 5 L plastic drums packed 4 per box and 25 L plastic drums, labelled according to South African regulations and guidelines.

DISCLAIMER:

The information on this sheet is not a specification; it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage and use of the product. It is not applicable to unusual or non-standard uses of the product nor where instructions or recommendations are not followed. All information is given in good faith but without guarantee in respect of accuracy, and no responsibility is accepted for errors and omissions or the consequence thereof.