



SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

Product Sulphate of Iron
Usage Fertiliser/ Plant nutrient
Supplier Westland Horticulture Ltd
14 Granville Industrial Estate
Granville Road
Dungannon
County Tyrone
BT70 1NJ
Email www.gardenhealth.com
Emergency Tel 08700 663566 (UK)

2. HAZARDS IDENTIFICATION

Classification of the Substance According to Directive 67/548/EEC or Directive 1999/45/EC:

Classification: Xn; Xi

Label Elements:

Hazard Symbol: Harmful, Irritant



Risk Phrases: R22 Harmful if swallowed
R36/38 Irritating to eyes and skin

3. COMPOSITION/INFORMATION ON INGREDIENTS

Description Iron (II) Sulphate

Hazardous Ingredients

CAS Number	Active Ingredient	Concentration	Directive 67/548/EEC	
			Warning Symbols	'R' Phrase(s)
7782-63-0	Iron (II) Sulphate Heptahydrate	>97% W/W	Xn Xi	R22 R36/38



4. FIRST AID MEASURES

- General Advice:** Have the product container, label or Material Safety Data Sheet with you when calling a poison control center or physician, or going for treatment.
Symptoms of poisoning may even occur after several hours; therefore medical observation is recommended for at least 48 hours after the accident
- Inhalation:** Move person to fresh air.
Keep patient warm and at rest.
Get medical advice if symptoms persist
- Skin Contact:** Immediately wash off with soap and plenty of water.
Get medical advice if irritation persists
- Eye Contact:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Remove contact lenses and continue flushing.
Get medical attention
- Ingestion:** Do not induce vomiting
Rinse out mouth and then drink plenty of water
Get medical attention

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media:

CO₂, powder or water spray.
Fight larger fires with water spray or alcohol resistant foam
Suitable extinguishing media for the surrounding fire should be used

Extinguishing Media Which Must Not Be Used For Safety Reasons:

Do not use a solid water stream as it may scatter and spread fire.

Specific Hazards Arising From the Substance or Mixture:

As the product contains organic components, fire will produce hazardous products of combustion such as Carbon Monoxide (CO), Carbon Dioxide (CO₂) and Sulphur Dioxide (SO₂)
Exposure to decomposition products may be a hazard to health

Special Protective Equipment for Fire Fighters:

Wear full protective clothing and self-contained breathing apparatus.

Further Information:

The product is not flammable
Cool endangered receptacles with water spray
Do not allow run-off from fire fighting to enter drains or water courses.
If fire run-off water enters drains or water course, inform the appropriate water authorities immediately



6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Refer to protective measures listed in section 8.
Avoid breathing dust
Ensure adequate ventilation

Environmental Precautions:

Do not allow to enter surface or ground water or sanitary sewer system.

Methods and Materials for Containment and Cleaning Up:

Sweep up and shovel into suitable containers for disposal according to local / national regulations
Pick up mechanically

Additional Advice: If the product contaminates rivers and lakes or drains inform respective authorities.

7. HANDLING AND STORAGE

Handling:

- Avoid dust formation and inhalation
- Avoid contact with eyes and skin
- When using do not eat, drink or smoke
- Take off contaminated clothing and wash before reuse
- Avoid unnecessary exposure to atmosphere to prevent moisture pick up
- Wash hands and observe good hygiene practice after handling this product

Storage:

- Keep containers closed tightly in a dry, cool and well-ventilated place.
- Keep away from oxidizing agents
- Protect from heat and direct sunlight

Specific End Uses:

Use as fertiliser according to the instruction on the label



8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters:

Component(s)	Exposure Limit(s)	Type of exposure limit
Iron (II) Sulphate	2 mg/m ³ as Fe	Short Term
Iron (II) Sulphate	1 mg/m ³ as Fe	Long Term

Exposure Controls

Engineering Measures: Avoid high dust concentration and provide ventilation where necessary

Protective Measures: The use of technical measures should always have priority over the use of personal protective equipment
When selecting personal protective equipment, seek appropriate professional advice
Personal protective equipment should be certified to appropriate standards

Respiratory Protection: Not necessary if room is well ventilated
Use suitable dust respirator if dust concentration is high

Hand Protection: Wear protective gloves.
The glove material has to be impermeable and resistant to the product
Select glove material according to penetration times, rates of diffusion and degradation
Material of gloves: Butyl rubber (BR), Nitrile rubber (NBR) or PVC

Eye Protection: Wear eye protection: safety glasses or face protection

Skin and Body Protection: Protecting work clothing

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Light blue or green crystalline powder. Product turns brown on exposure to air due to oxidation

Odour: Characteristic (sour rust)

Other Properties:

	Value	Temperature	Method
pH (100g/l)	2 - 3	21 °C	
Bulk density	850 -1200 kg/m ³		
Water solubility	228 g/l	25 °C	
Decomposition Temperature	>300 °C		



10. STABILITY AND REACTIVITY

- Chemical Stability:** Stable under normal conditions of storage, handling and use
- Hazardous Reactions:** Hazardous reactions will not occur under normal transport or storage conditions.
- Hazardous Decomposition:** Heating or fire can release toxic or irritant vapours (Sulphur oxides)
- Conditions To Avoid:** Strong oxidising agents

11. TOXICOLOGICAL INFORMATION

This product is expected to be of a low toxicity but prolonged skin or eye contact may cause some irritation

- Acute Oral Toxicity:** Median lethal dose mouse, LD50 670 mg/kg
- Acute Inhalation Toxicity:** Prolonged exposure to dust may cause irritation
- Acute Dermal Toxicity:** Irritant to skin and mucous membranes
- Eye Irritation:** Irritant
- Sensitization:** None reported

12. ECOLOGICAL INFORMATION

- Persistence and Degradability:** Easily biodegradable
- **Bioaccumulative Potential:** Does not accumulate in organisms
 - **PBT and vPvB assessment:** No
- Ecotoxicity:**
- **Toxicity To Fish:** LC50 1.8 mg/l, 96h
 - **Toxicity To Aquatic Invertebrates:** EC50 Daphnia magna (water flea), 5.3 mg/l 24h
- Other Data:** Keep away from water courses, report any accidental contamination of water courses to the authorities



13. DISPOSAL CONSIDERATIONS

- Product:** Do not contaminate ponds, waterways or ditches with product or used container. Check if agriculture use is possible. Dispose of by use on farm as a fertiliser, by spreading thinly on open ground
Where possible recycling is preferred to disposal or incineration.
If recycling is not practicable, dispose of in compliance with local regulations.
- Contaminated Packaging:** Empty remaining contents.
Completely empty containers can be put in the bin or disposed of in compliance with applicable local regulations

14. TRANSPORT INFORMATION

- Land Transport (ADR /RID)** Not dangerous goods
- Sea Transport (IMDG)** Not dangerous goods
- Air Transport (IATA-DGR)** Not dangerous goods

15. REGULATORY INFORMATION

Labelling According to Directive 67/548/EEC or Directive 1999/45/EC:

Symbol: Xn; Xi Harmful, Irritant

R-Phrases

R22 Harmful if swallowed
R36/38 Irritating to eyes and skin

S- Phrases

S2 Keep out of the reach of children
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection
S46 If swallowed, seek medical advice immediately and show this container or label



16. OTHER INFORMATION

Recommended uses and restrictions: Follow the instructions

Full text of R Phrases referred to under Section 3:

R22 Harmful if swallowed
R36/38 Irritating to eyes and skin

Abbreviations and Acronyms

CAS No	Chemicals Abstract Service Registry Number
Regulation (EC) No 1272/2008	Classification, Labelling and packaging
Directive 67/548/EEC	Dangerous Substances Directive
Directive 91/689/EEC	Directive on Hazardous Waste
IMDG Code	International Maritime Dangerous Goods Code
ADR	International carriage of dangerous Goods by Road
RID	International Transport of Dangerous Goods by Rail
IATA-DGR	Dangerous Goods Regulations by The International Air Transport Association

Further information

Before using this product, ensure that you read and understand its label

The information in this Safety Data Sheet has been prepared in accordance with the applicable European Directives. The information is believed to be correct at the time of going to press. Always read the label and product information before use. For further information please contact Westland Horticulture Ltd, 14 Granville Industrial Estate, Granville Road, Dungannon, County Tyrone, BT70 1NJ.