



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	customerservice@WestlandHorticulture.com
Emergency Tel	01480 443789 (UK)

2. HAZARDS IDENTIFICATION


Classification of the Substance or Mixture According to Regulation (EC) No 1272/2008:

Acute Tox. 4	H302	Harmful if swallowed
Skin Irrit. 2	H315	Causes skin irritation
Eye Irrit. 2	H319	Causes serious eye irritation

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

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

Label Elements According to Regulation (EC) No 1272/2008:

Hazard Pictograms	GHS07	
Signal Word	Warning	
Hazard Statements	H302	Harmful if swallowed
	H315	Causes skin irritation
	H319	Causes serious eye irritation



Precautionary Statements

P280 Wear protective gloves/protective clothing/eye protection/face protection
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing
P321 Specific treatment (see on this label)
P362 Take off contaminated clothing and wash before reuse
P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
P501 Dispose of contents/container in accordance with local / regional / national/ international regulations

Other hazards

PBT: No
vPvB: No

3. COMPOSITION/INFORMATION ON INGREDIENTS

Description	Substance
CAS No	7720-78-7, Iron (II) Sulphate
EC No	231-753-5

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

Information for doctor: No further relevant information available



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 respiratory protective device.

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:

Avoid formation / breathing of dust
Ensure adequate ventilation
Wear protective clothing

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
Dispose contaminated material as waste according to Section 13

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

Reference to other sections:

See section 7 for information on safe handling
See Section 8 for information on personal protection equipment
See Section 13 for disposal information



7. HANDLING AND STORAGE

Handling:

- Prevent dust formation and inhalation
- Avoid contact with eyes and skin
- Do not eat, drink or smoke when using this product
- Do not inhale dust
- 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

Ingredients with limit values that require monitoring at the workplace:

7720-78-7 Iron (II) Sulphate (100%)

Work Exposure Limit (WEL)	Derived No Effect Level (DNELs)	Predicted No Effect Concentration (PNECs)
Short Term value: 2 mg/m ³ as Fe	Oral: 0.29 mg/kg bw/day (Consumer)	Sewage treatment plant: 500mg/l
Long Term value: 1 mg/m ³ as Fe	Dermal: 0.29 mg/kg bw/day (Consumer) 0.57 mg/kg bw/day (Workers)	Sediment: 49.5 mg/kg sedi. dw
	Inhalative: 0.5 mg/m ³ (Consumer) 2.01 mg/m ³ (Workers)	Soil: 55mg/kg soil dw



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, grey or green 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		
Solubility in water	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:** No further relevant information available



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, LD50 670 mg/kg (Mouse), LD50 3200m/kg (Rat)

Primary Irritant Effect: On the skin: irritant to skin and mucous membranes
On the eye: Irritating effect

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:** Median Lethal Concentration, LC50 1.8 mg/l, 96h
NOEC 0.24 mg/l
- **Toxicity To Aquatic Invertebrates:** EC50 Daphnia magna (water flea), 5.3 mg/l 24h

Other Data: Keep away from water courses, ground water or sewage system. 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

Maritime Transport (IMDG) Not dangerous goods

Air Transport (IATA-DGR) Not dangerous goods

15. REGULATORY INFORMATION

Labeling According to Regulation (EC) No 1272/2008

Precautionary statements

Wear protective gloves/protective clothing/ eye protection/ face protection

Wash thoroughly after handling

Do not eat, drink or smoke when using this product

Chemical Safety Assessment: A Chemical Safety Assessment has been carried out

16. OTHER INFORMATION

Recommended uses and restrictions: Follow the instructions

Abbreviations and Acronyms

ADR	International Carriage of Dangerous Goods by Road
CAS No	Chemicals Abstract Service Registry Number
EC No	European Community Number for chemicals within EU regulations
EC50	Half Maximal Effective Concentration
IATA-DGR	Dangerous Goods Regulations by the International Air Transport Association
IMDG Code	International Maritime Dangerous Goods Code
NOEC	No Observed Effect Concentration
PBT	Persistent, Bioaccumulative and Toxic Properties
Regulation (EC) No 1272/2008	Classification, Labelling and Packaging
RID	International Transport of Dangerous Goods by Rail
vPvB	Very Persistent and Very Bioaccumulative Properties

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.