

Lawnsmith® Fertiliser

SAFETY DATA SHEET

GREEN-UP
Ferrous Sulphate

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Revision nr:
Date: 1/12/2008
Supersedes:
LS8

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

Identification of the product: Granular mixture of plant nutrients in soluble and partially soluble forms.
Product name: GREEN-UP Ferrous Sulphate
Use: Horticultural fertiliser
Company identification: **GreenBest Ltd**, Unit 2, The Marsh, Henstridge, Somerset BA8 0TF
Tel: 44 (0) 1963 364788 Fax: 44 (0) 1963 364789

2. COMPOSITION/INFORMATION ON INGREDIENTS.

The formulations contain combinations of the following:

Nitrogen:
Phosphate:
Potash:
Other nutrients: ferrous sulphate heptahydrate
Bulking agent:

3. HAZARDS IDENTIFICATION

Classification: Harmful (Xn) Irritant (Xi)

- Inhalation: Low toxicity. May be slightly irritant locally.
- Skin contact: R38 irritating to skin
- Eye contact: R36 irritating to eyes
- Ingestion: R22 Harmful if swallowed

4. FIRST AID MEASURES

- Inhalation: Remove patient from the area.
- Skin contact: Remove contaminated clothing. Wash with soap and water to remove contamination.
- Eye contact: Irrigate with water for at least 10 minutes and seek medical advice.
- Ingestion: Wash out mouth with water. Seek medical advice immediately with this SDS.

5. FIRE-FIGHTING MEASURES

Flammable class: Non-flammable.
Prevention: Drench packs with water if exposed to fire.
Extinguishing media: Use CO₂ or water spray. Do not smother with foam or sand.
Hazards: May give off fumes if heated to decomposition. Do not breathe fumes.
Special procedures: Wear self-contained breathing apparatus in confined spaces.

6. ACCIDENTAL RELEASE MEASURES

After spillage and/or leakage Contain and sweep up spillages. Place unusable material in labelled containers or plastic bags for disposal. Wet residues are slippery; wash floor to remove traces. Avoid pollution of sewers and watercourses.

7. HANDLING AND STORAGE

Storage: Keep dry. Packs should be stored closed to avoid moisture ingress. Avoid prolonged contact with metals.
Handling: Handle in accordance with good hygiene practice. Keep away from foodstuffs.
Packaging: LDPE sacks

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Respiratory protection: dusty conditions Dust mask with a minimum protection factor of 10 with HSE type approval.
- Hand protection: Nitrile gloves should be worn for personal hygiene purposes.
- Skin protection: Wear coverall and rubber boots when dealing with bulk spillages.
- Eye protection: Face shield (BS2092 G1) if handling dust.
- Engineering controls: Ensure adequate ventilation in the work area.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Crystalline solid
Colour:	Pale blue/green crystals may turn brown on exposure to air.
Odour:	Characteristic
pH value:	Solutions in water are acidic.
Initial boiling point (°C):	N/A
Bulk density:	0.8-1.2 g/cm ³
Flash point (°C):	N/A

10. STABILITY AND REACTIVITY

Stability:	Loses water progressively from 56C to 300C. Aqueous solutions are oxidized slowly by air when cold, rapidly when hot; rate of oxidation increased by addition of alkali or exposure to light.
Hazardous decomposition:	If heated to above 600C gives off acidic fumes of SO ₃ . Hazardous Decomposition Products : Sulphur trioxide SO ₃
Hazardous reactions:	Avoid mixing with strong oxidising agents.
Hazardous properties:	Corrosive if left in contact with ferrous metals.

11. TOXICOLOGICAL INFORMATION

General toxicity:	Ferrous sulphate has been used as a general iron supplement in humans for many years without any reports of adverse long term health effects.
Rat oral LD50 (mg/kg):	319 mg/kg
Occupational Exposure	LTEL (8 hour) 1mg/m ³ OES as Fe STEL (15 min) 2mg/m ³ OES for iron salts as Fe TLV 1mg/m ³ for soluble iron salts as Fe PEL None stated

12. ECOLOGICAL INFORMATION

Persistence and degradability:	Does not bio-accumulate. This substance readily oxidises to insoluble ferric oxides and sulphates.
Toxicity	Reported as having no adverse effects on sewage organisms. Iron salts are commonly added to inland lakes, estuaries and waterways to remove soluble phosphate. Excessive Ferrous Sulphate levels can result in oxygen depletion of water systems.

13. DISPOSAL CONSIDERATION

Product	Use Local Authority or licensed waste disposal contractor.
Packaging	Treat as industrial waste.

14. TRANSPORT INFORMATION

UK transport Classification	Not classified as hazardous.
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15. REGULATORY INFORMATION

Hazard classification :	Xn:Harmful Xi:Irritant
R Phrase(s) and S Phrase(s)	R22, R36/38, S26, S36/37/39, S46 Harmful if swallowed. Irritating to eyes and skin. In case of contact with eyes rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves and eye/face protection. If swallowed seek medical advice immediately and show this bag or label or show this Safety Data Sheet.

16. OTHER INFORMATION

Further information:	The information contained in this leaflet is given in good faith. It is accurate to the best of our knowledge and belief and represents the most up-to-date information at the time of publication. Providing our products are handled and used in accordance with the label instructions, they should offer no hazard to health or safety.
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