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

- 1.1 Product Identifier:** TREE & SHRUB PLANTING FEED
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**
Fertiliser
- 1.3 Details of the supplier of the safety data sheet:**
Vitax Limited
Owen Street
Coalville
LE67 3DE Tel: 01530 510060 Fax: 01530 510299 Email: info@vitax.co.uk
- 1.4 Emergency Contact:** Tel: 01530 510060 (Office Hours)
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2. HAZARDS IDENTIFICATION

- 2.1 Classification of mixture or substance:** Not classified as dangerous.
- 2.2 Label elements:** Not applicable.
- 2.3 Other hazards:** Mixture not classed as PBT or vPvB.
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3. COMPOSITION/INFORMATION ON INGREDIENTS

- 3.2 Mixtures:** Compound fertiliser containing 4.8% nitrogen, 7.1% phosphorus pentoxide, 9.5% potassium oxide with 2% magnesium oxide, mycorrhizae, beneficial bacteria, biostimulants and trace elements.

INGREDIENT	CAS/EINECS	Classification	% w/w
Ferrous sulphate monohydrate	17375-41-6	Acute tox 4 H302, Skin irr 2 H315, Eye irr 2 H319	<1%

4. FIRST AID MEASURES

- 4.1 Description of First Aid Measures** **Eye contact** – irrigate with water thoroughly.
Skin contact – wash hands and exposed skin after use.
Ingestion – wash out mouth with water and seek medical advice.
Inhalation – remove to fresh air.
- 4.2 Most important symptoms and effects, both acute and delayed**
Not expected to present a significant hazard under anticipated conditions of normal use. Contains microorganisms. Microorganisms may have the potential to provoke sensitizing reactions. Opportunistic infections may occur in individuals with compromised immune functions.
Skin Contact: Repeated or prolonged skin contact may cause irritation.
Eye Contact: Contact may cause eye irritation.
Ingestion: Ingestion may cause nausea and vomiting. Abdominal pain.
Inhalation: May be irritating to the mucous membranes and to the respiratory system.
- 4.3 Indication of immediate medical attention and special treatment needed:**
None. Treat symptomatically.
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5. FIRE FIGHTING MEASURES

- Non flammable
- 5.1 Extinguishing Media:** Use extinguishing media appropriate for surrounding fire. Foam. Dry powder. Carbon dioxide. Water spray. Sand. Do not use a heavy water stream.
- 5.2 Special hazards arising from substance or mixture:**
Accumulation of airborne dusts may present an explosion hazard in the presence of an ignition source. In intense heat, product decomposition will release toxic sulphur oxide fumes.
- 5.3 Advice for firefighters:** Wear self-contained breathing apparatus in confined spaces. Contain contaminated run-off.
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6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal Precautions:** Wash hands and exposed skin after handling.
- 6.2 Environmental precautions:** Do not allow to enter drains or sewers.
- 6.3 Methods and material for containment and cleaning up:**
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Sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials. Collect all waste in suitable and labelled containers and dispose according to local legislation.

7. HANDLING & STORAGE

- 7.1 Precautions for Safe Handling:** Avoid contact with eyes, skin, and clothing. Provide adequate ventilation. Minimize generation of dust. Avoid breathing dust. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
- 7.2 Conditions for Safe Storage:** Store in a dry, cool and well-ventilated place. Keep away from: Direct sunlight, Extremely high or low temperatures, Heat sources. Keep container tightly closed. Avoid Acids. Bases. Oxidizing agents. Reducing agents. Disinfectants, fungicides, and/or biocides which may inactivate mycorrhizae.
- 7.3 Specific end use:** Fertiliser.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

- 8.1 Control parameters:** Dust (total inhalable) LTEL 10 mg/m³ (8hr TWA).
Dust (respirable) LTEL 4 mg/m³ (8hr TWA).

Potassium Sulphate SOP (Westwood) (CAS: 7778-80-5)

- DNEL
Workers - Dermal; Long term systemic effects: 21.3 mg/kg/day
Workers - Inhalation; Long term systemic effects: 37.6 mg/m³
General population - Oral; Long term systemic effects: 12.8 mg/kg/day
General population - Dermal; Long term systemic effects: 12.8 mg/kg/day
General population - Inhalation; Long term systemic effects: 11.1 mg/m³
- PNEC
- Fresh water; 0.68 mg/l
- Marine water; 0.068 mg/l
- Intermittent release; 6.8 mg/l
- STP; 10 mg/l

Ferrous Sulphate

Long-term exposure limit (8-hour TWA): WEL 1 mg/m³
Short-term exposure limit (15-minute): WEL 2 mg/m³

- 8.2 Exposure Controls:** Ensure adequate ventilation. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. The following precautions are considered to be good industrial practice irrespective of their classification, unless otherwise specified. Gloves: to BS EN374 of gauntlet type in Natural Rubber or PVC (not Nitrile). Clothing: Coveralls/apron to BS EN465/466/467, Goggles or safety glasses. If insufficient ventilation: wear respiratory protection. Avoid all unnecessary exposure.

9. PHYSICAL & CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

Appearance	brown coloured powder
Odour	organic
pH	neutral
Boiling point	decomposes above 130°C
Melting point	N/A
Flash point	N/A
Flammability	N/A
Autoflammability	N/A
Explosivity	N/A
Oxidising properties	N/A
Vapour Pressure	N/A
Tap density	not available
Solubility	insoluble in water

9.1 Other Information:

none

10. STABILITY & REACTIVITY

- 10.1 Reactivity:** no data
- 10.2 Stability:** Stable under normal conditions.
- 10.3 Possibility of hazardous reactions** Hazardous polymerization will not occur.
- 10.4 Conditions to Avoid:** Store away from direct sunlight. heat sources. Extremely high or low temperatures

10.5 Incompatible materials: Acids. Bases. Oxidizing agents. Reducing agents. Disinfectants, fungicides, and/or biocides which may inactivate mycorrhizae.

10.6 Hazardous Decomposition Products: Decomposes at high temperatures producing toxic sulphur oxide fumes.

11. TOXICOLOGICAL INFORMATION

Acute toxicity: Not classified. Based on available data, the classification criteria are not met. Potassium sulphate (7778-80-5) LD50 oral rat 6600 mg/kg

Skin corrosion/irritation: Not classified. Based on available data, the classification criteria are not met.

Serious eye damage/irritation: Not classified. Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation: Not classified. Based on available data, the classification criteria are not met.

Germ cell mutagenicity: Not classified. Based on available data, the classification criteria are not met.

Carcinogenicity: Not classified. Based on available data, the classification criteria are not met.

Reproductive toxicity: Not classified. Based on available data, the classification criteria are not met.

Specific target organ toxicity (single exposure): Not classified. Based on available data, the classification criteria are not met.

Specific target organ toxicity (repeated exposure): Not classified. Based on available data, the classification criteria are not met.

Aspiration hazard: Not classified. Based on available data, the classification criteria are not met.

Potential adverse human health effects and symptoms: Not classified. Not expected to present a significant hazard under anticipated conditions of normal use. Contains microorganisms. Microorganisms may have the potential to provoke sensitizing reactions. Opportunistic infections may occur in individuals with compromised immune functions.

12. ECOLOGICAL INFORMATION

12.1 Toxicity: not classified as hazardous.

Potassium sulfate (7778-80-5)

LC50 fish 1 653 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus)

EC50 Daphnia 1 890 mg/l (Exposure time: 48 h - Species: Daphnia magna)

LC50 fish 2 3550 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])

12.2 Persistence and degradability: Not established.

12.3 Bioaccumulative potential: Not established, no bioaccumulation expected.

12.4 Mobility in soil: No additional information available.

12.5 Results of PBT and vPvB: not classified.

12.6 Other adverse data: No additional information available.

13. DISPOSAL CONSIDERATIONS

Disposal route should not permit contamination of groundwater.

13.1 Waste treatment methods: Dispose of waste through a reputable waste disposal contractor in accordance with the Environmental Protection Act 1990.

14. TRANSPORT INFORMATION

Not classified as hazardous for transport.

14.1 UN number: Product is unclassified for transport

14.2 UN proper shipping name: Product is unclassified for transport

14.3 Transport hazard Product is unclassified for transport

14.4 Packing group: Product is unclassified for transport

14.5 Environmental hazards: Product is unclassified for transport

14.6 Special precautions for user: No information available

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code Applicable for Maritime bulk transport only. Check with carrier.

15. REGULATORY INFORMATION

Not classified as dangerous for supply.

15.1 Safety, health and environmental regulations/legislation specific to this substance: This substance is classified and labelled according to Directive EC 1272/2008 Classification, Labelling and Packaging and the EC Fertiliser Regulations 2003, Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.



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15.2 Chemical Safety Assessment not undertaken for this substance

16. OTHER INFORMATION

Liability

The product label provides information on the use of the product: do not use otherwise, unless you have assessed any potential hazard involved and the safety measures required. Prepared by VITAX LTD, for Health and Safety purposes from the best knowledge available at the time of printing.