SAFETY DATA SHEET

Date of Issue: February 2004
Revision: December 2020

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

1.1 Product Identifier: VITAX Q4 POWDER/ Q4 PROFESSIONAL

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: +44 (0)1530 510060 Email: info@vitax.co.uk

1.4 Emergency Contact: Tel: +44 (0)1530 510060 (Office Hours)

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.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures: Compound fertiliser containing 5.3% nitrogen, 7.5% phosphorus pentoxide, 10.2% potassium oxide 3.0% magnesium oxide 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

Skin Contact: unlikely to cause irritation.
Eye Contact: pain and redness.
Ingestion: based on components, product is considered to present little hazard by oral exposure.
Inhalation: unlikely to cause harmful effects under normal handling and use.

4.3 Indication of immediate medical attention and special treatment needed:

none

5. FIRE FIGHTING MEASURES

Non flammable

5.1 Extinguishing Media: If involved in a fire use water spray or dry powder.

5.2 Special hazards arising from substance or mixture:

In intense heat, product decomposition will release toxic fumes.

5.3 Advice for firefighters: Wear self-contained breathing apparatus in confined spaces. Contain contaminated run-off.

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:

Soak up with absorbent material such as sand and transfer to suitable container.

7. HANDLING & STORAGE

7.1 Precautions for Safe Handling: Avoid contact with skin and eyes. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.

7.2 Conditions for Safe Storage: Store in original containers, tightly closed in a secure, well ventilated, cool but frost-free, dry area. Store clear of foodstuffs and in a separate stack from herbicides.

7.3 Specific end use: Fertiliser.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

8.1 Control parameters: Dust (total inhalable) LTEL 10 mg/m^3 (8hr TWA).
Dust (respirable) LTEL 4 mg/m^3 (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/m^3
	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/m^3
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/m^3
Short-term exposure limit (15-minute): WEL 2 mg/m^3

8.2 Exposure Controls: The following precautions are considered to be good practice when using any chemicals irrespective of their classification unless otherwise specified. Primary Hazard considered as handling of concentrate. Gloves: to BS EN374 of gauntlet type in Natural Rubber or PVC (not Nitrile) recommended for acid resistance. Clothing: Coveralls/apron to BS EN465/466/467.

9. PHYSICAL & CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

Appearance	buff coloured powder
Odour	faint organic
pH	~5
Boiling point	decomposes above 130ºC
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	1.22
Solubility	partially soluble 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 Reacts with strong alkalis to release ammonia
10.4 Conditions to Avoid: Store away from heat
10.5 Incompatible materials: strong oxidising agents, alkalis, nitrates and nitrites.
10.6 Hazardous Decomposition Products:
Decomposes at high temperatures producing toxic nitrogen oxide fumes.

11. TOXICOLOGICAL INFORMATION

The mixture has not been assessed for toxicological effects, the mixture classification is given in section 2 based on individual component contents. Individual component hazards are given in section 3

Acute toxicity	Not classified as hazardous
Irritation	Not classified as hazardous
Corrosivity:	Not classified as hazardous
Sensitisation	
Skin sensitisation:	Not classified as hazardous
Repeated dose toxicity:	No known significant effects or critical hazards.
Carcinogenicity:	No known significant effects or critical hazards.
Mutagenicity:	No known significant effects or critical hazards.
Toxicity for reproduction:	No known significant effects or critical hazards.

12. ECOLOGICAL INFORMATION

12.1 Toxicity: not classified as hazardous. Provides nutrients essential to plant growth.
12.2 Persistence and degradability: no data
12.3 Bioaccumulative potential: no data
12.4 Mobility in soil: no data. Can cause nitrate contamination of ground waters if used indiscriminately.
12.5 Results of PBT and vPvB: not classified.
12.6 Other adverse data: no data

13. DISPOSAL CONSIDERATIONS

Disposal route should not permit nitrate 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.
15.2 Chemical Safety Assessment not undertaken for this substance

16. OTHER INFORMATION

Reason for revision: Replaces version dated Dec 2015. Sections 1, 11 updated.
Text of the hazard statements mentioned in Section 3:
H302: Harmful if swallowed.
H315: Causes skin irritation.
H319: Causes serious eye irritation.
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.