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

- 1.1 Product Identifier:** VITAX Q4 ROOTMORE
- 1.2 Relevant uses of the substance or mixture and uses advised against:**
Soil improver/biostimulant for retail use.
- 1.3 Manufacturer/Distributor:** 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)
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2. HAZARDS IDENTIFICATION

- 2.1 Classification:** Not classified as dangerous. This product does not meet the criteria for classification as hazardous as defined in the Regulation EC 1272/2008 and in Directive 67/548/EEC. Depending on the type of handling and use, airborne respirable crystalline silica may be generated. Prolonged and/or massive inhalation of respirable crystalline silica dust (particles up to 10 microns in size) may cause lung fibrosis, commonly referred to as silicosis. Principal symptoms of silicosis are cough and breathlessness. Occupational exposure to respirable crystalline silica dust should be monitored and controlled.
- 2.2 Label elements:** Not applicable.
- 2.3 Other hazards:** Not classified as PBT/vPvB by current EU criteria.
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3. COMPOSITION/INFORMATION ON INGREDIENTS

- 3.2 Mixtures:** Soil microorganism mixture conforming to EC EFB Class 1, endomycorrhizal fungi (common soil micro organisms – never shown to be a causal agent in human illness) on an inert mineral base.

INGREDIENT	CAS/EINECS	Classification	% w/w
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4. FIRST AID MEASURES**4.1 Description of First Aid Measures**

- Eye contact:** Do not rub eye. Irrigate with water thoroughly and seek medical advice.
- Skin contact:** Wash hands and exposed skin with soap and water.
- Ingestion:** Rinse out mouth with water and seek medical advice.
- Inhalation:** Remove to fresh air and keep at rest. Get medical attention if any discomfort continues.

4.2 Most important symptoms and effects, both acute and delayed

- Skin Contact:** Repeated and prolonged contact may cause irritation.
- Eye Contact:** Dusty/gritty material expected to cause irritation.
- Ingestion:** May cause irritation of gastro-intestinal tract.
- 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, decomposition of packaging may release toxic 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:** Avoid airborne dust generation. Wear suitable respiratory protection, eye protection gloves and overalls in compliance with national regulation. 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:** Sweep up spills carefully to minimise airborne dust, transfer to suitable container and keep safe for disposal.
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7. HANDLING & STORAGE

- 7.1 Precautions for Safe Handling:** Avoid airborne dust. Provide appropriate exhaust ventilation at places where dust is generated. Avoid contact with skin and eyes. Wash hands and exposed skin after use. Do not eat, drink or smoke whilst using this product. Do not block stack pallets.
- 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:** Soil mycorrhizae mixture.

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).
Quartz: Workplace exposure limit 0.1 mg/m³
- 8.2 Exposure Controls:** Normal good industrial hygiene practices should be observed. Where dust cannot be adequately controlled by engineering measures wear suitable dust mask, gloves (BS EN 374) coverall and faceshield (BS 2092 G1) or goggles (BS EN 166).

9. PHYSICAL & CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

Appearance	grey/ brown powder
Odour	faint earth-like
pH	n/a
Boiling point	n/a
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
Relative density	0.55 -0.65
Solubility	not soluble

9.1 Other Information: none

10. STABILITY & REACTIVITY

- 10.1 Reactivity:** No reactivity hazards
- 10.2 Stability:** Stable under normal conditions.
- 10.3 Possibility of hazardous reactions** None
- 10.4 Conditions to Avoid:** Store away from heat
- 10.5 Incompatible materials:** Strong oxidising agents, hydrofluoric acid.
- 10.6 Hazardous Decomposition Products:** Stable under normal conditions.

11. TOXICOLOGICAL INFORMATION

Acute toxicity- oral	Not classified has harmful by ingestion. No specific test data are available.
Acute toxicity- dermal	Not classified has harmful by skin contact. No specific test data are available.
Acute toxicity- inhalation	Not classified has harmful by inhalation. Excessive inhalation of respirable particles (up to 10micron) over an extended period may result in silicosis of the lung.
Skin corrosion/irritation	
Human skin model	No specific test data are available.
Serious eye damage/irritation	No specific test data are available.
Respiratory sensitisation	No specific test data are available.
Skin sensitisation	Not determined.
Germ cell mutagenicity	
Genotoxicity - in vitro	This substance has no evidence of mutagenic properties.
Carcinogenicity	No specific test data are available.
Reproductive toxicity	
- fertility	No specific test data are available.
Aspiration hazard	Not anticipated to present an aspiration hazard, based on chemical structure.
Eye contact	The product is considered to be a low hazard under normal conditions of use. May cause eye irritation.

To the best of our knowledge physical, chemical and toxicological properties have

not been fully investigated.

12. ECOLOGICAL INFORMATION

- 12.1 Toxicity:** not classified as hazardous. Provides soil mycorrhizae to enhance plant growth.
12.2 Persistence and degradability: Natural mineral base - not biodegradable
12.3 Bioaccumulative potential: not expected to be bioaccumulative
12.4 Mobility in soil: virtually insoluble.
12.5 Results of PBT and vPvB: not classified.
12.6 Other adverse data: no data
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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.
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14. TRANSPORT INFORMATION

- General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).
14.1. UN number Not applicable.
14.2. UN proper shipping name Not applicable.
14.3. Transport hazard class(es) No transport warning sign required.
14.4. Packing group Not applicable.
14.5. Environmental hazards
Environmentally hazardous substance/marine pollutant: No.
14.6. Special precautions for user Not applicable.
14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.
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15. REGULATORY INFORMATION

- Not classified as dangerous.
15.1 Safety, health and environmental regulations/legislation specific to this substance:
This substance is classified and labelled in accordance with regulation 1999/45/EC, 1272/2008, the statutory instrument No.716 2009 Chemicals (Hazard Information and Packaging) regulations, 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
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16. OTHER INFORMATION

- Reason for revision:** Replaces data sheet dated Dec 2014. All sections updated.
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.