

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

- 1.1 Name of Product:** Q4 LIQUID ALL PURPOSE PLANT FOOD
1.2 Use of the Substance/Preparation: Fertiliser
1.3 Manufacturer/Distributor: Vitax Limited
Owen Street
Coalville
LE67 3DE Tel: 01530 510060 Fax: 01530 510299 Email: tech@vitax.co.uk
1.4 Emergency Contact: Tel: 01530 510060 (Office Hours)

2. HAZARDS IDENTIFICATION

- 2.1 Classification:** Not classified as dangerous.
2.2 Label elements: Not applicable.
2.3 Other hazards: low toxicity under normal handling and use.

3. COMPOSITION/INFORMATION ON INGREDIENTS

- 3.2 Mixtures:** Compound organo-mineral fertiliser containing 3% nitrogen, 3% phosphorus pentoxide, 6% potassium oxide with added seaweed and amino acids.

Chemical Name	CAS-No./ EINECS-No.	Annex Index or REACH number	Symbol(s) and phrases	Concentration [%]
Potassium carbonate	584-08-7/ 209-529-3	-	GHS07 Skin Irrit. 2 H315 Eye Irrit. 2 H319 STOT Single Exp. 3 H335	< 2

4. FIRST AID MEASURES

- 4.1 Description of First Aid Measures** **Eye contact** – Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if symptoms persist.
Skin contact – wash hands and exposed skin after use. Remove any contaminated clothing and launder before re-use. Seek medical attention if symptoms persist or develop.
Ingestion – Do not induce vomiting. Wash out mouth with water and give water to drink. Seek medical attention if symptoms persist or develop.
Inhalation – remove to fresh air.
- 4.2 Most important symptoms and effects, both acute and delayed**
Information not available.
- 4.3 Indication of immediate medical attention and special treatment needed:** Information not available.

5. FIRE FIGHTING MEASURES

- 5.1 Extinguishing Media:** Use foam, carbon dioxide, dry powder, sand. The mixture is not classified as flammable as such extinguishing media should also be chosen as appropriate for surrounding materials..
- 5.2 Special hazards arising from substance or mixture:**
Possible irritant fumes arising from combustion.
- 5.3 Advice for firefighters:** Cool down containers/equipment exposed to heat with a water spray. Contain spread of extinguishing fluids (these fluids may be hazardous for the environment). Wear complete protective clothing and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal Precautions:** The following precautions are considered to be good practice when using any chemicals irrespective of their classification unless otherwise specified.
Ensure adequate ventilation
Use personal protective equipment,
- Gloves
- Eye protection
- Suitable respirator if dust is generated during 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

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- 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 a cool dry atmosphere, in original labelled containers. Refer to manufacturer for maximum safe stacking height. Keep away from heat sources, combustible materials and strong oxidising agents..
- 7.3 Specific end use:** Fertiliser.
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8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

- 8.1 Control parameters:** Exposure limit values have not been determined for this mixture
- 8.2 Exposure Controls:** No specific personal protective equipment assigned. Normal good industrial hygiene practices should be observed.
- Appropriate engineering controls All handling should only take place in well-ventilated areas.
- Eye/face protection Wear eye protection.
- Hand protection Wear protective gloves.
- Other skin and body protection Wear appropriate clothing to prevent repeated or prolonged skin contact.
- Hygiene measures Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.
- Respiratory protection No specific recommendations.
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9. PHYSICAL & CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

Appearance; Liquid
Odour; No Information available
Odour threshold; No Information available
pH; 5.0 – 6.0
Melting point/freezing; No Information available
Initial boiling point and boiling range; No Information available
Flash point; No Information available
Evaporation rate; No Information available
Flammability (solid, gas); Mixture is not classed as flammable
Upper /lower flammability or explosive limits; Mixture is not classed as explosive
Vapour Pressure; No Information available
Vapour density; No Information available
Specific Gravity; 1.20 ± 0.02
Solubility (ies); No Information available
Partition coefficient: n-octanol/water; No Information available
Auto ignition temperature: No Information available
Decomposition temperature: No Information available

9.1 Other Information:

none

10. STABILITY & REACTIVITY

- 10.1 Reactivity:** No information available
- 10.2 Stability:** Stable under normal conditions.
- 10.3 Possibility of hazardous reactions** No information available
- 10.4 Conditions to Avoid:** Store away from heat.
- 10.5 Incompatible materials:** Strong oxidising agents.
- 10.6 Hazardous Decomposition Products:**
Decomposes at high temperatures producing irritant fumes.
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11. TOXICOLOGICAL INFORMATION

- 11.1. Information on toxicological effects** 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.

Toxicological information on hazardous ingredients:

Potassium carbonate:

- TOXIC DOSE 1 - LD 50 1870 mg/kg (oral rat)
- INHALATION Harmful: danger of serious damage to health by prolonged exposure through inhalation.
- INGESTION Harmful if swallowed.
- SKIN CONTACT Irritating to skin.
- EYE CONTACT Irritating to eyes.
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12. ECOLOGICAL INFORMATION

- 12.1 Toxicity:** Not classified as hazardous. Provides nutrients essential to plant growth.
12.2 Persistence and degradability: The product is slowly degradable
12.3 Bioaccumulative potential: No data available
12.4 Mobility in soil: No data available
12.5 Results of PBT and vPvB assessment: This product does not contain any substances classified as PBT or vPvB.
12.6 Other adverse data: None

13. DISPOSAL CONSIDERATIONS

- 13.1 Waste treatment methods:** Disposal route should not permit nitrate contamination of groundwater. Dispose of waste through a reputable waste disposal contractor in accordance with the Environmental Protection Act 1990.

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

15. REGULATORY INFORMATION

- 15.1 Safety, health and environmental regulations/legislation specific to this substance:** Not classified as dangerous for supply.
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 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

- Hazard statements in full** H315: Causes skin irritation
H319: Causes serious eye irritation
H335: May cause respiratory irritation. Affected organs: respiratory system.
Route of exposure: Inhalation.
STOT Single Exp. 3: Specific target organ toxicity — Single exposure, Category 3..
- 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.