



**Safety Data Sheet
VitaLink CalMag**

**Date: 30.01.2018
Revision Date: N/A
Version: 3**

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product Identifier

Substance or preparation trade name: VitaLink CalMag
REACH Registered number(s): N/A
CAS number:N/A
EINECS number: N/A
Synonyms:N/A

1.2 Relevant identified use of the substance or mixture and uses advised

Use of substance/mixture: Plant additive containing mineral salts and chelated iron. Do not use undiluted. **Dose:** 1 ml/L. Use during prolonged vegetative growth or when deficiency is observed. Use alongside main nutrient.

1.3 Company/undertaking name and address:

Company Name: Hydrogarden
Unit 2 Progress Way
Binley
Coventry
CV3 2NT
Telephone: +44(0)2476 651500
Fax: +44(0) 2476 651060
E-mail: info@hydrogarden.co.uk

1.4 Emergency telephone number:

Emergency telephone number: +44 (0) 2476651500

Opening hours: 8.30am -5.00pm Mon-Thurs, 8.30am - 4.00pm Fri.

SECTION 2: Hazards Identification

2.1 Classification of the substance or mixture

2.1.1 classification according to Regulation (EC) No 1272/2008 (CLP):

Category 2 – Eye Irritant

2.1.2 Classification according to Directive 67/548/EEC (See SECTION 16 for full text of risk phrases)

Xi; R36 Irritant; Irritating to eyes

2.1.3 Additional information:

H319: Causes serious eye irritation

For full text of R-phrases and Hazard and EU hazard statements see SECTION 16.

2.2 Label Elements

Label elements under CLP:

Hazard Statements: H319: causes serious eye irritation

Signal Words: Warning

Hazard Pictograms:



Precautionary Statements:

P264: Wash hands thoroughly after handling

P280: Wear protective gloves/protective clothing/eye protection/face protection

Precautionary statement – response:

P305/351/338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/attention.

2.3 Other Hazards

Supplemental hazard information: Not applicable

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Substance or preparation trade name: VitaLink CalMag. Liquid Plant Additive
NPK 1.8 - 0 - 0

Description of the mixture: Mixture of Calcium and Magnesium salts with chelated iron, organic acids and preservative.

Hazardous Ingredients: Calcium nitrate, Calcium chloride, Magnesium nitrate

Name	Cas No	EC No	Reach Registration No.	% (weight)	Classification according to 67/548/EEC	Classification according to Regulation EC No 1278/2008 (CLP)
Calcium Nitrate	10124-37-5	233-332-1	/	<10%	Oxidiser Irritant R8 Contact with combustible material may cause fire. R36 Irritating to eyes	Oxidizing solid Cat 3 Eye irritant Cat 2 H319 causes serious eye irritation H272 May intensify fire; oxidiser.
Calcium Chloride dihydrate	10035-04-8	233-140-8	/	<10%	Xi – Irritant R36 Irritating to eyes	Eye irritant- Cat 2 H319 causes serious eye irritation
Magnesium Nitrate	7791-18-6	232-094-	/	10-15%	Xi – Irritant	Eye irritant- Cat 2 H319 causes

		6				serious eye irritation
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% Contents:

CaO 4.0%
 N(NO₃) 1.8%
 MgO 1.7%
 Fe chelated with EDDHA 0.04%
 Fe chelated with DTPA 0.05%

Content of Hazardous Elements Declaration for Czech Republic:

All hazardous elements are below the limits specified (Cadmium <1 mg/kg, Arsenic <10mg/kg, Chromium <50mg/kg, Lead <10 mg/kg and Mercury <1 mg/kg).

SECTION 4: First Aid Measures

4.1 Description of first aid measures

General notes:

Following Skin contact: IMMEDIATELY IRRIGATE WITH CLEAN WATER. If irritation persists seek medical attention. Remove any contaminated clothing and launder before re-use

Following Eye contact: IMMEDIATELY IRRIGATE WITH CLEAN WATER FOR 15 MINS. Cold water must be used. Seek medical aid.

Following Ingestion: SEEK MEDICAL ATTENTION IMMEDIATELY, DISPLAY LABEL WHERE POSSIBLE. Never give anything by mouth to unconscious person. Do not induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Delayed/immediate effects: no known effects.

Potential acute health effects:

Ingestion: May cause irritation to mouth, throat and stomach.

Skin contact: No known significant effects or critical hazards.

Eye contact: May cause serious eye irritation.

Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following

- Pain or irritation
- Watering
- Redness

Inhalation: No specific data.

Skin contact: No specific data.

Ingestion: No specific data

4.3 Indication of any immediate medical attention/special treatment

Immediate/special treatment: In case of eye contact or ingestion seek medical attention immediately.

SECTION 5: Fire fighting measures

5.1 Extinguishing media

Extinguishing media: Use foam, carbon dioxide, dry powder, sand. The mixture is not classified as flammable as such extinguishing media should be chosen as appropriate for surrounding materials.

Unsuitable extinguishing media: N/A

5.2 Special hazards arising from the substance or mixture

Exposure Hazards: No special hazards.

5.3 Advice for fire-fighters

Advice for fire-fighters:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 for non-emergency personnel:

Personal Precautions: ensure gloves and goggles are worn during clean up.

Protective equipment: gloves and goggles.

Emergency procedures: do not allow the liquid to enter drains or water courses.

6.1.2 for emergency responders:

Advice for fire fighters: none

6.2 Environmental precautions

Environmental precautions: do not allow the liquid to enter drains or water courses.

6.3 Methods and material for containment and cleaning up

6.3.1 Methods for spill containment: Store in a bunded area, cover nearby drains.

6.3.2 Clean-up procedures: For small spills, absorb onto inert material and dispose of in approved waste containers. Comply with all applicable governmental regulations on spill reporting, and handling and disposal of waste. Do not pour into open water ways, keep away from drains

6.4 References to other sections

Reference to other sections: refer to section 8 of SDS.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures: wear gloves and goggles in case of splashes

Measures to prevent fire: not applicable

Measures to prevent aerosol and dust generation: not applicable

Measures to protect the environment: do not allow to enter drains or water courses.

Advice on general occupational hygiene: prevent contact with eyes, skin and clothing. Wash hands after handling.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions: store between 5-25°C and away from direct sunlight. Keep out of reach of children.

Suitable packaging: store in original packaging only.

Storage class: n/a

Further information on storage conditions: none

7.3 Specific end use(s)

Recommendations: Always use diluted. Dilute 1 ml/L. Use during prolonged vegetative growth or when deficiency is observed. Use alongside main nutrient. Shake well before use. Check EC levels when using CalMag because it will affect the EC of your nutrient solution. If required adjust the pH, recommended range 5.8-6.5.

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

Employ good industrial hygiene practice.

Hazardous ingredients: no hazardous ingredients

Workplace exposure limits: n/a

8.2 Exposure controls

8.2.1 Engineering measures: none required

Mixture related measures to prevent exposure during identified uses: n/a

8.2.2 Personal protective equipment:

Respiratory protection: not applicable

Hand protection: gloves

Eye protection: safety glasses or goggles

Skin protection: gloves/long sleeves

8.2.3 Environmental exposure controls: do not allow spills to enter drains. Use bunding or store away from drains.

Mixture related measures to prevent exposure: no specific measures for mixtures.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance: Reddish brown

State: liquid

Odour: Earthy

pH: 5.5

Melting/freezing point: unknown

Boiling point: unknown

Flash point: unknown

Evaporation rate: unknown

Flammability: unknown

Vapour pressure: unknown

Vapour density: unknown

Relative density: 1.11g/cm³

Viscosity: unknown

Oxidising properties: unknown

Explosive properties: unknown

Solubility in water: soluble

9.2 Other information

Other information: none

SECTION 10: Stability and reactivity

10.1 Reactivity

Reactivity: no data available.

10.2 Chemical stability

Chemical stability: under storage at normal ambient temperatures (5-25°C) the product is stable.

10.3 Possibility of hazardous reactions

Hazardous reactions: no data available.

10.4 Conditions to avoid

Conditions to avoid: Low or high temperatures may impair the product. Store between 5-25°C and out of direct sunlight.

10.5 Incompatible materials

Materials to avoid: No known incompatibilities.

10.6 Hazardous decomposition products

Hazardous decomposition products: None known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute Toxicity: no toxic effects

Irritation: not toxic, irritation may occur

Corrosivity: no toxic effects

Sensitization: not toxic, irritation may occur

Repeated dose toxicity: no toxic effects

Mutagenicity: no toxic effects

Carcinogenicity: no toxic effects

Reproductive toxicity: not a known reproductive toxin.

SECTION 12: Ecological information

12.1 Toxicity

Ecotoxicity values: no specific information available

12.2 Persistence and degradability

Persistence and degradability: biologically degradable

12.3 Bioaccumulative potential

Bioaccumulative potential: ingredients not bioaccumulative

12.4 Mobility in soil

Mobility: no specific data available

12.5 Results of PBT and vPvB assessment

PBT identification: This substance is not identified as a PBT or vPvB substance.

12.6 Other adverse effects

Other adverse effects: not known

SECTION 13: Disposal considerations

13.1.1 Product/packaging disposal: Dispose of packaging and contents in accordance with local/national regulations

13.1 Waste treatment methods

Waste codes/waste designations according to LoW: None

13.1.2 Waste treatment – relevant information: dispose of at local waste disposal site in accordance with local regulations.

13.1.2 Sewage disposal – relevant information: waste should not be released to sewers.

13.1.4 Other disposal recommendations: none

SECTION 14: Transport information

14.1 UN number

UN number: not classified according to ADR, non hazardous for transport

14.2 UN proper shipping name

Shipping name: not classified as hazardous for transport

14.3 Transport hazard class(es)

Transport class: not classified as hazardous for transport

14.4 Packing group

Packing group: not applicable

14.5 Environmental hazards

Environmentally hazardous: Not classified as environmentally hazardous.

Marine Pollutant: Not a marine pollutant

14.6 Special precautions for user

Special precautions: none

Tunnel code: not applicable

Transport category: not applicable

SECTION 15: Regulatory information

15.1 Safety, health and Environmental regulations/legislation specific for the mixture

EU regulations: not applicable

Authorisations and/or restrictions on use: none

Specific regulations: not applicable

15.2 Chemical safety assessment

Chemical safety assessment: a COSHH assessment has been carried out for the substance or mixture by the supplier

SECTION 16: Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010 and EC Regulation No 1272/2008.

*Indicates text in the SDS which has been changed since the last revision

Phrases used in Section 2 and Section 3:

H319: Causes serious eye irritation

R36: Irritating to eyes

P264: Wash hands thoroughly after handling

P280: Wear protective gloves/protective clothing/eye protection/face protection

P305/351/338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/attention.

Legal Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall only be used as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.