



**Safety Data Sheet**  
**VitaLink Hydro MAX Grow HW Part B**

Revised: 13.10.2016  
Revision Date: N/A  
Version: 2

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

**1.1 Product Identifier**

**Substance or preparation trade name:** VitaLink Hydro MAX Grow Hard Water Part B  
**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:** For use as a liquid plant nutrient feed when diluted in water, for use during the growth stage. Must be used with VitaLink Hydro MAX Grow HW Part A. Do not use product undiluted.

**1.3 Company/undertaking name and address:**

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

Skin Corrosive Cat 1 (B)

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

C, Corrosive.

#### 2.1.3 Additional information:

H314: Causes severe skin burns and eye damage.

R34: Causes burns

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:** H314: Causes severe skin burns and eye damage.

**Signal Words:** Danger

#### Hazard Pictograms:



**Precautionary Statements:**

P260: Do not breathe fumes

P264: Wash hands thoroughly after handling

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

P405: Store locked up

P501: Dispose of contents/containers to an approved (in accordance with local and national regulations) waste disposal site.

**Precautionary statement – response:**

P301/330/331 – IF SWALLOWED: Rinse mouth, DO NOT induce vomiting.

P303/361/353 – IF ON SKIN (or HAIR): Remove immediately all contaminated clothing. Rinse skin with water.

P363: Wash contaminated clothing before re use.

P304/340: IF INHALED: remove victim to fresh air and keep at rest in a comfortable position for breathing.

P310: Immediately call a POISON centre or doctor.

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

**2.3 Other Hazards****Supplemental hazard information:** Not applicable**SECTION 3: Composition/information on ingredients****3.2 Mixtures****Substance or preparation trade name:** VitaLink Hydro MAX Grow HW Part B. Liquid Nutrient Feed NPK 1,2-2,3-6,8 (always use combined with VitaLink Hydro MAX Grow HW Part A) NPK 4,9-2,3-6,8 when combined with VitaLink Hydro MAX Grow HW Part B.**Description of the mixture:** Mixture of mineral salts with trace elements and phosphoric acid.**Hazardous Ingredients:** Phosphoric Acid

Name	Cas No	EC No	Reach Registration No.	% (weight)	Classification according to 67/548/EEC	Classification according to Regulation EC No 1278/2008

						<b>(CLP)</b>
Phosphoric Acid	7664-38-2	231-633-2	/	<b>2.3%</b>	C, Corrosive R34 Causes Burns	Skin Corrosive Cat 1 (B) H314 Causes severe skin burns and eye damage

**% Contents:**

Nitrate Nitrogen	1.2%
Potassium Oxide K <sub>2</sub> O (water soluble)	6.8%
Phosphorus Pentoxide (P <sub>2</sub> O <sub>5</sub> ) (water soluble)	2.3%
Sulfur Trioxide (SO <sub>3</sub> )	2.7%

**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.

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

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

**Self –protection of the first aider:** No special protection required. Advise to wear gloves to avoid skin contact whilst treating patient.

**4.2 Most important symptoms and effects, both acute and delayed**

**Delayed/immediate effects:** burns and irritation to skin and eyes.

**4.3 Indication of any immediate medical attention/special treatment**

**Immediate/special treatment:** See first aid treatment in section 4.1. No special treatment required.

## SECTION 5: Fire fighting measures

### 5.1 Extinguishing media

**Extinguishing media:** Product not flammable. Use correct extinguishing media for surrounding material.

**Unsuitable extinguishing media:** not applicable

### 5.2 Special hazards arising from the substance or mixture

**Exposure Hazards:** Thermal decomposition may produce toxic fumes of phosphorus oxides and/or phosphine.

### 5.3 Advice for fire-fighters

**Advice for fire-fighters:** Irritating and highly toxic gases may be generated by thermal decomposition. Breathing apparatus required.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

#### 6.1.1 for non-emergency personnel:

**Personal Precautions:** Avoid breathing vapours, mist or gas. Ensure adequate ventilation.

**Protective equipment:** wear gloves (nitrile rubber) and goggles/safety glasses in case of splashes.

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

#### 6.1.2 for emergency responders:

**Advice for fire fighters:** Wear self-contained breathing apparatus for firefighting if necessary.

## 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:** Absorb onto sand, earth or other suitable absorbent material.

## 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:** Shake well before use. Always use diluted. A 2-part nutrient for use during the growth stage. Switch to Hydro MAX Bloom A & B from Hydro MAX Grow A & B when your plants show signs of flowering initiation. Use 1-2 ml/L of each of A & B for young plants. Use 3-4 ml/L of each of A and B for mature plants. Use only in conjunction with VitaLink Hydro MAX Grow HW Part A.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control Parameters

Employ good industrial hygiene practice.

**Hazardous ingredients:** Phosphoric Acid.

**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:** clear/colourless  
**State:** liquid  
**Odour:** none  
**pH:** 1.0-1.4  
**Melting/freezing point:** unknown  
**Boiling point:** unknown  
**Flash point:** unknown  
**Evaporation rate:** unknown  
**Flammability:** not flammable  
**Vapour pressure:** unknown  
**Vapour density:** unknown  
**Relative density:** 1.11 g/cm<sup>3</sup>  
**Viscosity:** unknown  
**Oxidising properties:** unknown  
**Explosive properties:** unknown  
**Solubility in water:** 100% in water at 20°C

## 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 (7-30°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:** Strong bases, strong oxidants and strong reducers.

#### 10.6 Hazardous decomposition products

**Hazardous decomposition products:** Phosphines; oxides of phosphorus, irritating and toxic fumes and gases. (Very rare).

### 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:** none known

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

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

**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

**UN number:** 1760

**14.2 UN proper shipping name**

**Shipping name:** CORROSIVE LIQUID, N.O.S

**14.3 Transport hazard class(es)**

**Transport class:** 8

**14.4 Packing group**

**Packing group:** II

**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:** 2

**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.

MSDS Sheet used for Information from Sigma Aldrich, Product Number 345245, Phosphoric Acid.

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

### Phrases used in Section 2 and Section 3:

H314: Causes severe skin burns and eye damage.

R34: Causes burns

### Precautionary Statements:

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P264: Wash hands thoroughly after handling

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

P405: Store locked up

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### Precautionary statement – response:

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**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.

