



**Safety Data Sheet
VitaLink Finale**

**Date: 17.07.2018
Revision Date : N/A
Version: 4**

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

1.1 Product Identifier

Substance or preparation trade name: VitaLink Finale
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: A ripening product designed to push your plants into their final flourish. Usage instructions: 3-4 ml/L. Designed to be used for 1-2 weeks prior to the final flushing stage. Do not use with main nutrient. If required adjust the pH, recommended range 5.8-6.5. Shake well before use. Do not use product undiluted.

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):

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.

P321: Specific treatment – see first aid information on this label.

P305/351/338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. 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 Finale. NPK 0 – 8.4 – 5.8

Description of the mixture: Mixture of potassium, ammonium and magnesium salts with 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 (CLP)
Phosphoric Acid	7664-38-2	231-633-2	/	5%	C, Corrosive R34 Causes Burns	Skin Corrosive Cat 1 (B) H314 Causes severe skin burns and eye damage

% Contents:

Potassium oxide(K ₂ O) (water soluble)	5.8%
Phosphorus pentoxide(P ₂ O ₅) (water soluble)	8.4%
Sulphur trioxide (SO ₃)	7.5%
Magnesium Oxide (MgO)	3.4%

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. Remove immediately all contaminated clothing. Rinse skin with 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. Remove contact lenses if present and easy to do so. Continue rinsing

Following Ingestion: Rinse mouth. Never give anything by mouth to unconscious person. Do not induce vomiting. Immediately call a POISON centre or doctor.

Following Inhalation: remove victim to fresh air and keep at rest in a comfortable position for breathing.

Self –protection of the first aider: 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: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

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: Wear self-contained breathing apparatus for firefighting if necessary.

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. Usage instructions: 3-4 ml/L. Designed to be used for 1-2 weeks prior to the final flushing stage. Do not use with main nutrient. 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: Phosphoric Acid

Workplace exposure limits: TWA = 1 mg/m³

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 (nitrile rubber)

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 and colourless

State: liquid

Odour: none

pH: 1.4-1.8

Melting/freezing point: unknown

Boiling point: unknown

Flash point: unknown

Evaporation rate: unknown

Flammability: not flammable

Vapour pressure: unknown

Vapour density: unknown

Relative density: 1.27 g/cm³

Viscosity: unknown

Oxidising properties: unknown

Explosive properties: unknown

Solubility in water: soluble

9.2 Other information

Other information: no data available

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: no data available

10.6 Hazardous decomposition products

Hazardous decomposition products: refer to section 5.2

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

14.1 UN number

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: III

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: none

Authorisations and/or restrictions on use: not applicable

Specific regulations: none

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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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.