



Safety Data Sheet
VitaLink pH Buffer 4

Date: 23.05.2016
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 pH Buffer 4
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: pH 4 Buffer, Calibration solution for pH meters

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

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):

Non hazardous

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

does not meet the criteria for classification in accordance with Directive 67/548/EEC

2.1.3 Additional information:

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: N/A

Signal Words: N/A

Hazard Pictograms: N/A

Precautionary Statements: N/A

Precautionary Statement Response: N/A

2.3 Other Hazards

Supplemental hazard information: Not applicable

SECTION 3: Composition/information on ingredients

3.1 Substances

Substance trade name: VitaLink pH 4 Buffer Solution

Name	Cas No	EC No	Reach Registration No.	% (weight)	Classification according to 67/548/EEC	Classification according to Regulation EC No 1278/2008 (CLP)
Potassium hydrogen phthalate	877-24-7	212-889-4	N/A	1-2%	Non hazardous	Non hazardous
Hydrochloric Acid 3%	7647-01-0	231-595-7	01-2119484862-27	<0.5%	C - Corrosive R34 - Causes burns R37 - Irritating to respiratory system	Skin Corrosion/irritation Category 1 B Serious Eye Damage/Eye Irritation Category 1 Specific target organ toxicity - (single exposure) Category 3
2-Phenoxyethanol	122-99-6	EEC No. 204-589-7	01-2119488943-21	<1.0%	Xn; R22 Xi; R36	Acute Tox. 4 (H302) Eye Irrit. 2 (H319)

4.1 Description of first aid measures

General notes:

Following Skin contact: Wash off with soap and plenty of 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: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician

Self –protection of the first aider: Wear gloves to avoid skin contact whilst treating patient.

If inhaled: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

Delayed/immediate effects:

Skin contact: may cause irritation

Eye contact: may cause irritation.

Ingestion: may cause irritation.

4.3 Indication of any immediate medical attention/special treatment

Immediate/special treatment: See first aid treatment in section 4.1.

SECTION 5: Fire fighting measures

5.1 Extinguishing media

Extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media: not applicable

5.2 Special hazards arising from the substance or mixture

Exposure Hazards: unknown.

5.3 Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus.

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: Wear self-contained breathing apparatus.

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. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.

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 in cool place and away from direct sunlight. Keep out of reach of children. Keep container tightly closed in a dry place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Suitable packaging: store in original packaging only.

Storage class: Non Hazardous

Further information on storage conditions: none

7.3 Specific end use(s)

Recommendations: Follow manufacturer's instructions for your pH meter. Use as Buffer pH 4 Calibration fluid.

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

Employ good industrial hygiene practice.

Hazardous Ingredients: none

Workplace exposure limits: not applicable

8.2 Exposure controls

8.2.1 Engineering measures: Ensure there is sufficient ventilation of the area.

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

8.2.2 Personal protective equipment:

Respiratory protection: not applicable

Hand Protection: glove (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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance: clear, colourless

State: liquid

Odour: none

pH: 4.0

Melting/freezing point: unknown

Boiling point: unknown

Flash point: unknown

Evaporation rate: unknown

Flammability: non flammable

Vapour pressure: unknown

Vapour density: unknown

Relative density: 1.0 g/cm³

Viscosity: unknown

Oxidising properties: non oxidizing.

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 (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: 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: unknown.

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

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: N/A

14.2 UN proper shipping name

Shipping name: N/A

14.3 Transport hazard class(es)

Transport class: N/A

14.4 Packing group

Packing group: N/A

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: N/A

Transport category: N/A

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 Sheets used for Information from Fisher Chemicals, Product Number P/5320/53, P/5320/71, P/5320/60, P/5320/50, P/5320, potassium hydrogen phthalate.

MSDS Sheets used for Information from Fisher Chemicals, Product Numbers 124620000; 124620010; 124620011; 124620025; 124620026; 124620051; 124620100; 124620250, Concentrated Hydrochloric Acid.

MSDS Sheets used for Information from Acros Organics, Product Numbers 130240000; 130240010; 130240051; 130242500, 2- phenoxyethanol

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

Phrases used in Section 2 and Section 3:

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.