

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

1.1. Product identifier

Product Name: Ultraclean PH

REACH registration number: 01-2119485924-24-XXXX

CAS number: 7664-38-2

EU index number: 015-011-00-6

EC number 231-633-2

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of substance / mixture: Ultrasonic cleaning detergent and brightener

1.3. Details of the supplier of the safety data sheet

Company name: Ultrawave Limited
Eastgate business Park
Wentloog Avenue
Cardiff
CF3 2EY
UK

Telephone: 029 2083 7337

Email: admin@ultrawave.co.uk

1.4. Emergency telephone number

Emergency Telephone: 029 2083 7337

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Physical hazards: Met Corr. 1 H290

Health hazards: Acute Tox. 4 - H302 Skin Corr. 1B - H314 Eye Dam. 1 - H318

Environmental hazards Not classified

2.2. Label elements

EC number 231-633-2

Hazard statements: H290 May be corrosive to metals
H302 Harmful if swallowed
H314: Causes severe skin burns and eye damage.

Signal words: Danger

Hazard pictograms:



Precautionary statements: P234 Keep only in original packaging.
P260 Do not breathe vapour/ spray.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.
Rinse skin with water or shower.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501 Dispose of contents/ container in accordance with national regulations.

2.3 Other Hazards

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.1. Substances

Product name: Phosphoric acid >25 ...%

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EU index number 015-011-00-6

CAS number 7664-38-2

EC number 231-633-2

Composition comments The data shown are in accordance with the latest EC Directives.

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin.
Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Transfer to hospital if there are burns or symptoms of poisoning.

Eye contact: Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.

4.1. Description of first aid measures...continued

- Ingestion:** Rinse mouth thoroughly with water. Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. Give plenty of water to drink. Get medical attention immediately.
- Inhalation:** Remove affected person from source of contamination. Get medical attention if any discomfort continues.
- Skin contact** Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention immediately.
- Eye contact** Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention immediately. Continue to rinse.

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

- Skin contact:** May cause serious chemical burns to the skin.
- Eye contact:** Causes serious eye damage. May cause permanent damage if eye is not immediately irrigated.
- Ingestion:** Harmful if swallowed. May cause chemical burns in mouth and throat.
- Inhalation:** Gas or vapour in high concentrations may irritate the respiratory system.

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor: Treat symptomatically

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

5.2. Special hazards arising from the substance or mixture

- Specific hazards:** In contact with some metals can generate hydrogen gas, which can form explosive mixtures with air.
- Hazardous combustion products:** Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Oxides of phosphorus. Phosphoric acid mist.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Wear protective clothing as described in Section 8 of this safety data sheet. Avoid inhalation of spray mist and contact with skin and eyes. Provide adequate ventilation.

6.2. Environmental precautions

Environmental precautions: Avoid discharge into water courses or onto the ground. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Neutralise spilled material with crushed limestone, slaked lime (calcium hydroxide), soda ash (sodium carbonate) or sodium bicarbonate. Absorb spillage with inert, damp, non-combustible material. Flush contaminated area with plenty of water. Collect and place in suitable waste disposal containers and seal securely. For waste disposal, see Section 13.

6.4. Reference to other sections

Reference to other sections: For personal protection, see Section 8. For waste disposal, see Section 13.

Section 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions: Avoid spilling. Avoid inhalation of vapours and contact with skin and eyes. Provide adequate ventilation.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in tightly-closed, original container in a dry, cool and well-ventilated place.
Suitable container materials: Stainless steel. Glass. Polyethylene.
Store at temperatures between 10°C and 40°C.

Storage class: Corrosive storage

7.3. Specific end use(s)

Specific end use(s): The identified uses for this product are detailed in Section 1.2.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits: Long-term exposure limit (8-hour TWA): WEL 1 mg/m³
Short-term exposure limit (15-minute): WEL 2 mg/m³
[WEL = Workplace Exposure Limit.]

DNEL: Workers - Inhalation; Long term local effects: 2.92 mg/m³
Workers - Inhalation; Long term systemic effects: 1 mg/m³
Consumer - Inhalation; Long term local effects: 0.73 mg/m³
Workers - Inhalation; Short term local effects: 2 mg/m³

8.2. Exposure controls

Appropriate engineering controls: Provide adequate ventilation

Eye/face protection: The following protection should be worn: Chemical splash goggles or face shield. Personal protective equipment for eye and face protection should comply with European Standard EN166.

Hand protection: The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. The selected gloves should have a breakthrough time of at least 8 hours. Butyl rubber. Viton rubber (fluoro rubber). Nitrile rubber. Rubber (natural, latex). glove thickness 0.7mm. The selected gloves should have a breakthrough time of at least 0.5 hours. Nitrile rubber. Rubber (natural, latex). Viton rubber (fluoro rubber). Butyl rubber. glove thickness 0.4mm. To protect hands from chemicals, gloves should comply with European Standard EN374.

Other skin and body protection: Wear suitable protective clothing as protection against splashing or contamination.

Respiratory protection: If ventilation is inadequate, suitable respiratory protection must be worn. filter A/P2 EN 136/140/141/145/143/149

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Liquid

Colour: Colourless

Odour: Acrid

Solubility in water: Miscible

Boiling point/range°C: 101 - 158°C @ 760mm Hg

pH: <2

9.2. Other information

Molecular weight: 98

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: No information required.

10.4. Conditions to avoid

Conditions to avoid: Avoid excessive heat for prolonged periods of time

10.5. Incompatible materials

Materials to avoid: Strong alkalis. Aluminium.

10.6. Hazardous decomposition products

Haz. decomp. products: Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

Section 11: Toxicological information

11.1. Information on toxicological effects

<u>Acute toxicity - oral</u>	
Acute toxicity oral (LD ₅₀ mg/kg)	301.0
Species	Rat
Notes (oral LD ₅₀)	OECD 423
ATE oral (mg/kg)	301.0
<u>Acute toxicity - dermal</u>	
Notes (dermal LD ₅₀)	LD ₅₀ 2750 mg/kg, Dermal, Rabbit
<u>Skin corrosion/irritation</u>	
Animal data	Corrosive to skin.
<u>Serious eye damage/irritation</u>	
Serious eye damage/irritation	Risk of serious damage to eyes.
<u>Respiratory sensitisation</u>	
Respiratory sensitisation	Based on available data the classification criteria are not met.
<u>Skin sensitisation</u>	
Skin sensitisation	Based on available data the classification criteria are not met.
<u>Germ cell mutagenicity</u>	
Genotoxicity - in vitro	Based on available data the classification criteria are not met. Ames test Negative. OECD 471 Chromosome aberration Negative. OECD 473
<u>Carcinogenicity</u>	
Carcinogenicity	Based on available data the classification criteria are not met.
<u>Reproductive toxicity</u>	
Reproductive toxicity - fertility	Fertility - NOAEL > 500 mg/l, Oral, Rat OECD 422
Reproductive toxicity development	Developmental toxicity: - NOAEL: > 410 mg/l, Oral, Rat OECD 422
<u>Specific target organ toxicity - single exposure</u>	
STOT - single exposure	Based on available data the classification criteria are not met.
<u>Specific target organ toxicity - repeated exposure</u>	
STOT - repeated exposure	Based on available data the classification criteria are not met.
<u>Aspiration hazard</u>	
Aspiration hazard	Based on available data the classification criteria are not met.

Symptoms / routes of exposure

Inhalation	Gas or vapour in high concentrations may irritate the respiratory system.
Ingestion	Harmful if swallowed. May cause chemical burns in mouth, oesophagus and stomach.
Skin contact	Causes severe burns.
Eye contact	Causes serious eye damage.

Section 12: Ecological information

The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. The product may affect the acidity (pH) of water which may have hazardous effects on aquatic organisms.

12.1. Toxicity

Toxicity: Not considered toxic to fish.

12.2. Persistence and degradability

Persistence and degradability: There are no data on the degradability of this product.

12.3. Bio accumulative potential

Bio accumulative potential: No data available on bioaccumulation.

12.4. Mobility in soil

Mobility: Soluble in water.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not classified as PBT/vPvB according to current EU criteria.

12.6. Other adverse effects

Other adverse effects: No information available.

Section 13: Disposal considerations

13.1. Waste treatment methods

General Information: Waste is classified as hazardous waste. Do not puncture or incinerate, even when empty.

Disposal operations: Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

Section 14: Transport information

14.1. UN number

UN number: UN1805

14.2. UN proper shipping name

Shipping name: PHOSPHORIC ACID, SOLUTION

14.3. Transport hazard class(es)

Transport class: 8

Classification code C1

Transport labels:



14.4. Packing group

Packing group: III

14.5. Environmental hazards

Environmentally hazardous: No

Marine pollutant: No

14.6. Special precautions for user

EmS F-A, S-B.

ADR transport category 3

Emergency Action Code 2R

Hazard Identification Number: 80

Tunnel restriction code (E)

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to
Annex II of MARPOL 73/78 and
the IBC Code Not applicable

Section 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU legislation: 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) (as amended).
Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).
Commission Regulation (EU) No 2015/830 of 28 May 2015.

15.2. Chemical Safety Assessment

Chemical Safety Assessment: A chemical assessment has been carried out.

Inventories: All the ingredients are listed or exempt

Section 16: Other information

Other information

Other information:

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