

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

### 1.1. Product identifier

**Product Name:** Ultraclean CTA  
**REACH registration number:** 01-2119457026-42-XXXX  
**CAS number:** 77-92-9  
**EC number:** 201-069-1

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

**Use of substance / mixture:** Ultrasonic cleaning detergent

### 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 (office hours only)

## Section 2: Hazards identification

### 2.1. Classification of the substance or mixture (EC 1272/2008)

**Physical hazards:** Not Classified  
**Health hazards:** Eye Irrit. 2 – H319  
**Environmental hazards:** Not Classified.

### 2.2. Label elements

**Hazard statements:** H319: Causes serious eye irritation

**Signal words:** Warning

**Hazard pictograms:**



**Precautionary statements:** P264 Wash contaminated skin thoroughly after handling.  
P305+P351+P338 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

**PBT:** This substance is not classified as PBT or vPvB according to current EU criteria.

### Section 3: Composition/information on ingredients

#### 3.1. Substances

<b>Product Name:</b>	CITRIC ACIS ANHYDROUS
<b>REACH registration number:</b>	01-2119457026-42-XXXX
<b>CAS number:</b>	77-92-9
<b>EC number:</b>	201-069-1
<b>Composition comments</b>	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 contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues. Wash clothing and clean shoes thoroughly before reuse.
- 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.
- Ingestion:** Rinse mouth thoroughly with water. Remove any dentures. Remove person to fresh air and keep comfortable for breathing. Immediately give a couple of glasses of water or milk, provided the victim is fully conscious. Stop if the affected person feels sick as vomiting may be dangerous. Do not induce vomiting unless under the direction of medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if symptoms are severe or persist. Never give anything by mouth to an unconscious person. Place unconscious person on their side in the recovery position and ensure breathing can take place. Maintain an open airway. Loosen tight clothing such as collar, tie or belt.
- Inhalation:** Remove person to fresh air and keep comfortable for breathing. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. It may be dangerous for first aid personnel to carry out mouth-to-mouth resuscitation. Get medical attention if symptoms are severe or persist. Place unconscious person on their side in the recovery position and ensure breathing can take place. Maintain an open airway. Loosen tight clothing such as collar, tie or belt.
- Protection of first aiders** No action shall be taken without appropriate training or involving any personal risk.

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

- Skin contact:** No specific health hazards known.
- Eye contact:** Causes serious eye irritation.
- Ingestion:** No specific health hazards known.
- Inhalation:** May cause respiratory irritation.

#### 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 water or foam.  
**Unsuitable extinguishing media:** Do not use water jet as an extinguisher, as this will spread the fire.

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

**Specific hazards:** Dust may form explosive mixture with air.  
**Hazardous combustion products:** Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Carbon dioxide (CO<sub>2</sub>). Carbon monoxide (CO).

### 5.3. Advice for fire-fighters

**Advice for fire-fighters:** Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

## Section 6: Accidental release measures

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

**Personal precautions:** Follow precautions for safe handling described in this safety data sheet. Avoid generation and spreading of dust. Avoid inhalation of dust and contact with skin and eyes. Provide adequate ventilation.

**For non-emergency personnel:** No action shall be taken without appropriate training or involving any personal risk. Keep unnecessary and unprotected personnel away from the spillage. Do not touch or walk into spilled material. No smoking, sparks, flames or other sources of ignition near spillage.

### 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:** Remove spillage with vacuum cleaner or collect with a shovel and broom, or similar. 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:** Wear protective clothing as described in Section 8 of this safety data sheet. Avoid contact with skin, eyes and clothing. Avoid generation and spreading of dust. Provide adequate ventilation. Keep only in the original container. Container must be kept tightly closed when not in use. Avoid inhalation of dust and contact with skin and eyes. Keep away from heat, sparks and open flame. Take precautionary measures against static discharges. Do not reuse empty containers. Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

**Advice on general occupational hygiene** Do not eat, drink or smoke when using this product. Wash after use and before eating, smoking and using the toilet. Remove contaminated clothing and protective equipment before entering eating areas.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage conditions:** Store in tightly-closed, original container in a dry and cool place. Store at temperatures between 10°C and 30°C. Protect from sunlight. Keep away from food and drink. Keep away from heat, sparks and open flame. Avoid contact with oxidising agents.

### 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

**Ingredients Comments:** No exposure limits known for ingredient(s)

**PNEC**

- Fresh water; 0.44 mg/l
- marine water; 0.044 mg/l
- Sediment (Freshwater); 7.52 mg/kg
- Sediment (Marinewater); 0.752 mg/kg
- Soil; 29.2 mg/kg

## 8.2. Exposure controls

<b>Appropriate engineering controls:</b>	Provide adequate ventilation. Avoid inhalation of dust. Observe any occupational exposure limits for the product or ingredients.
<b>Eye/face protection:</b>	Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles. Personal protective equipment for eye and face protection should comply with European Standard EN166.
<b>Hand protection:</b>	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. Nitrile rubber. To protect hands from chemicals, gloves should comply with European Standard EN374.
<b>Other skin and body protection:</b>	Wear suitable protective clothing as protection against splashing or contamination.
<b>Hygiene measures:</b>	Wash at the end of each work shift and before eating, smoking and using the toilet. Remove contaminated clothing and wash the skin thoroughly with soap and water after work. Eye wash facilities and emergency shower must be available when handling this product.
<b>Respiratory protection</b>	If ventilation is inadequate, suitable respiratory protection must be worn. Particulate filter, type P2. EN 136/140/141/145/143/149
<b>Environmental exposure controls</b>	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## Section 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

<b>State:</b>	Crystalline powder.
<b>Colour:</b>	White.
<b>Odour</b>	Odourless.
<b>Solubility in water:</b>	~800 g/l water @ 20°C Soluble in the following materials: Ethanol.
<b>Viscosity:</b>	6.5mPa s @ 20°C
<b>pH:</b>	pH (diluted solution): 1.8 @ 5% aqueous solution(25°C)
<b>Melting point:</b>	~153°C
<b>Flash Point:</b>	Not applicable.
<b>Upper/lower flammability or explosive limits:</b>	Data lacking.
<b>Vapour pressure:</b>	<0.001 hPa @ 20°C
<b>Relative density:</b>	1.665 @ 20°C
<b>Bulk density:</b>	400 - 1300 kg/m <sup>3</sup>
<b>Partition coefficient:</b>	log Pow: -1.80 - -0.2
<b>Auto-ignition temperature:</b>	No information available
<b>Oxidising properties:</b>	Data lacking.

### 9.2. Other information

**Molecular weight:** 192.13

## Section 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity:** No test data specifically related to reactivity available for this product or its ingredients.

### 10.2. Chemical stability

**Chemical stability:** Stable at normal ambient temperatures and when used as recommended.

### 10.3. Possibility of hazardous reactions

**Hazardous reactions:** Under normal conditions of storage and use, no hazardous reactions will occur.

### 10.4. Conditions to avoid

**Conditions to avoid:** Avoid excessive heat for prolonged periods of time. Avoid generation and spreading of dust.

### 10.5. Incompatible materials

**Materials to avoid:** Strong oxidising agents. Avoid contact with acids and alkalis.

### 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

**Acute toxicity oral (LD<sub>50</sub>  
mg/kg):** 5,400.0

**Species:** Mouse

**ATE oral (mg/kg):** 5,400.0

**Acute toxicity - dermal  
Notes (dermal LD<sub>50</sub>):** LD<sub>50</sub> > 2000 mg/kg, Dermal, Rat

**Skin corrosion/irritation:** May be slightly irritating to skin.

**Serious eye damage/irritation:** Irritating to eyes.

**Respiratory sensitisation:** No specific test data are available.

**Skin sensitisation:** No specific test data are available.

**Germ cell mutagenicity  
Genotoxicity - in vitro:** Negative  
**Genotoxicity - in vitro:** Negative

**Carcinogenicity:** Based on available data the classification criteria are not met.

**Reproductive toxicity – fertility:** Based on available data the classification criteria are not met.

**Specific target organ toxicity -  
single exposure  
STOT - single exposure:** Data lacking.

**Specific target organ toxicity -  
repeated exposure  
STOT - repeated exposure:** Data lacking.

**Aspiration hazard:** Data lacking.

### Symptoms / routes of exposure

**Skin contact:** Prolonged skin contact may cause temporary irritation.

**Eye contact:** Causes serious eye irritation.

**Ingestion:** May cause discomfort if swallowed.

**Inhalation:** Dust in high concentrations may irritate the respiratory system.  
Immediate effects can be expected after short-term exposure.

## Section 12: Ecological information

The product components are not classified as environmentally hazardous. However, large or frequent spills may have hazardous effects on the environment.

### 12.1. Toxicity

**Ecotoxicity values:**

**Acute toxicity – fish:** LC<sub>50</sub>, 48 hours: 440 mg/l, *Leuciscus idus* (Golden orfe)

**Acute toxicity - aquatic**

**Invertebrates:** EC<sub>50</sub>, 24 hours: 1535 mg/l, *Daphnia magna*

**Acute toxicity - aquatic plants:** EC<sub>50</sub>, 168 hours: 425 mg/l, Algae

**Acute toxicity -**

**Microorganisms:** EC<sub>50</sub>, 16 hours: >10000 mg/l

### 12.2. Persistence and degradability

**Persistence and degradability:** The product is readily biodegradable.

**Biodegradation:** - Degradation 97%: 28 days  
OCED 301B

**Biological oxygen demand:** 0.526 g O<sub>2</sub>/g substance

**Chemical oxygen demand:** 0.728 g O<sub>2</sub>/g substance

### 12.3. Bioaccumulative potential

**Bioaccumulative potential:** The product does not contain any substances expected to be bioaccumulating.

**Partition coefficient:** log Pow: -1.80 - -0.2

### 12.4. Mobility in soil

**Mobility:** The product is soluble in water.

### 12.5. Results of PBT and vPvB assessment

**PBT identification:** This product does not contain any substances classified as PBT or vPvB.

### 12.6. Other adverse effects

**Other adverse effects:** Not determined.



## 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

General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

No information required.

14.2. UN proper shipping name

No information required.

14.3. Transport hazard class(es)

No information required.

14.4. Packing group

No information required.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant - No.

14.6. Special precautions for user

No information required.

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 - No information required.

## 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

A chemical safety assessment has been carried out.

**Section 16: Other information**

**Other information**

**Revision comments:** NOTE: Lines within the margin indicate significant changes from the previous revision.

**Legal disclaimer:** The information contained in this safety data sheet is provided in accordance with the requirements of the Chemical (Hazard Information and Packaging) Regulations. The information we have provided is correct to the best of our knowledge, information and belief at the date of its publication.

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