

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

1.1. Product identifier

Product Name: Ultraclean CBX

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

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: Skin Corr. 1A H314; Eye Dam. 1 H318

Most important adverse effects: Causes severe skin burns and eye damage

2.2. Label elements

Hazard statements: H314: Causes severe skin burns and eye damage

Signal words: Danger

Hazard pictograms: GHS05: Corrosion



Precautionary statements: P260: Do not breathe mist/vapours/spray.
P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/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.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P310: Immediately call a POISON CENTRE/doctor
P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other Hazards

PBT: This product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds
This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

Sodium Hydroxide

CAS	Percent	EC No (where available)	EU REACH reg. no. (Where available)	CLP Hazard Classification	Statements
1310-73-2	10-25%	215-185-5	01-2119457892-27	Met. Corr.1, Skin Corr. 1A, Eye dam. 1	H290 H314

Alkyl C8-C10 Polyglucoside

68515-73-1	1-2.5%	500-220-1	01-2119488530-36	Eye Dam. 1	H318
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Nitilotrimethylenetris(Phosphonic Acid)

6419-19-8	1-2.5%	229-146-5	01-2119487988-08-0002	Met. Corr.1, Eye Dam. 1, Skin Irrit. 2	H290 H318 H319
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Silicic Acid, Sodium Salt

1344-09-8	1-2.5%			Skin Irrit.2, Eye Dam. 1, STOT SE 3	H315, H318 H335
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Nonionic surfactants, Phosphonates

	< 5%				
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Section 4: First aid measures

4.1. Description of first aid measures

General information: Immediately remove any clothing soiled by the product

Skin contact: Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.

Eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

Ingestion: Do not induce swallowing, call for medical help immediately. Drink plenty of water and provide fresh air. Call for a doctor immediately.

Inhalation: In case of unconsciousness place patient stably in side position for transportation.

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

No further relevant information available.

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

Immediate / special treatment: No further relevant information available.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Use fire extinguishing methods suitable to surrounding conditions

5.2. Special hazards arising from the substance or mixture

Exposure hazards: During heating or in case of fire, poisonous gases are produced

5.3. Advice for fire-fighters

Advice for fire-fighters: Protective equipment: Mount respiratory protective device.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Mount respiratory protective device. Wear protective equipment. Keep unprotected persons away.

6.2. Environmental precautions

Environmental precautions: Do not allow to enter sewers / surface or ground water

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Use neutralising agent.
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.

6.4. Reference to other sections

Reference to other sections: See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Store in a cool dry place in tightly closed receptacles. Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols. Only use in well ventilated areas

Information about fire - and explosion protection: Keep respiratory protective device available.

7.2. Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Do not store together with acids

Further information about storage conditions: Keep receptacle tightly sealed.

7.3. Specific end use(s)

Specific end use(s): No further relevant information available.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Ingredients with limit values that require monitoring at the workplace:

1310-73-2 sodium hydroxide (10-25%)	
WEL (Great Britain)	Short-term value: 2 mg/m ³

DNELs		
1310-73-2 sodium hydroxide		
Inhalative	DNEL Long term local mg/m ³	1 mg/m ³ (consumer)
Oral	DNEL Long term-systemic	35.7 mg/kg human/day (consumer)
Dermal	DNEL Long term-systemic	357000 mg/kg human/day (consumer)
		595000 mg/kg human/day (worker)
Inhalative	DNEL Long term-systemic mg/m ³	124 mg/m ³ (consumer) 420 mg/m ³ (worker)
6419-19-8 nitrilotrimethylenetris(phosphonic acid)		
Oral	DNEL Long term-systemic	1.38 mg/kg human/day (consumer)
	DNEL acute-systemic	1.38 mg/kg human/day (consumer)
Derma	DNEL Acute-systemic	1.38 mg/kg human/day (consumer)
		2.75 mg/kg human/day (worker)
	DNEL Long term-local	1.38 mg/kg human/day (consumer)
	DNEL Long term-systemic	2.75 mg/kg human/day (worker)
Inhalative	DNEL Acute-systemic mg/m ³	2.39 mg/m ³ (consumer)
		9.7 mg/m ³ (worker)
	DNEL Long term-systemic mg/m ³	2.39 mg/m ³ (consumer)
		9.7 mg/m ³ (worker)
PNECs		
68515-73-1 alkyl C8-C10 polyglucocide		
PNEC Freshwater mg/L		0.1000 mg/L (-)
PNEC Freshwater sediment		0.487 mg/Kg (-)
PNEC Intermittent release		0.270 (-) (mg/L)
PNEC Marine water sediment		0.048 mg/Kg (-)
PNEC Marinewater mg/L		0.01000 mg/L (-)
PNEC Sewage treatment Plant mg/L		560 mg/L (-)
PNEC Soil		0.654 mg/Kg (-)
6419-19-8 nitrilotrimethylenetris(phosphonic acid)		
PNEC Freshwater mg/L		0.46 mg/L (-)
PNEC Freshwater sediment		150 mg/Kg (-)
PNEC Marine water sediment		15 mg/Kg (-)
PNEC Marinewater mg/L		0.046 mg/L (-)
PNEC Sewage treatment Plant mg/L		20 mg/L (-)
PNEC Soil		244 mg/Kg (-)

8.2. Exposure controls

Personal protective equipment: Ensure there is sufficient ventilation of the area.

General protective and hygienic measures: Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
Protective gloves.

Respiratory protection Not required.

Protection of hands: Protective gloves.



Rubber gloves: Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material: The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a

maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

Not suitable are gloves made of the following materials: Strong material gloves

Eye protection: Tightly sealed goggles



Body protection Alkaline resistant protective clothing

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State:	Liquid
Colour:	Light brown
Odour	Characteristic
Solubility in water:	Non-viscous
Relative density:	1.05
pH-value at 20 °C:	13
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	> 100 °C
Flash point:	Not applicable.
Flammability (solid, gaseous):	Not applicable.
Decomposition temperature:	Not determined.
Self-igniting:	Product is not self-igniting
Danger of explosion:	Product does not present an explosion hazard
Vapour pressure at 20 °C:	23 hPa
Density at 20 °C:	1.24 g/cm ³
Vapour density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with water:	Fully miscible
Partition coefficient (n-octanol / water):	Not determined.
Viscosity:	Not determined
Solvent content:	0.0 %
Solids content:	21.0 %

9.2. Other information

Other information: No further relevant information available.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: No further relevant information available.

10.2. Chemical stability

Chemical stability:

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications

10.3. Possibility of hazardous reactions

Hazardous reactions: Reacts with acids

10.4. Conditions to avoid

Conditions to avoid: No further relevant information available.

10.5. Incompatible materials

Materials to avoid: No further relevant information available.

10.6. Hazardous decomposition products

Haz. decomp. products: No dangerous decomposition products known

Section 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity:

LD/LC50 values relevant for classification:

1310-73-2 sodium hydroxide

Oral	LD50	2000 mg/kg (Rat)
Dermal	LD50	1350 mg/kg (Rabbit)
	LC50 / 96 h	125 mg/ltr (Gambusia affinis)

68515-73-1 alkyl C8-C10 polyglucocide

Dermal	LD50	> 2000 mg/kg (Rat)
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6419-19-8 nitrilotrimethylenetris(phosphonic acid)

Oral	LD50	2910 mg/kg (Rat)
Dermal	LD50	>6310 mg/kg (Rabbit)
	EC 50 / 48 h	>1000 mg/ltr (Daphnia magna (water flea))
	LC50	160 mg/l (fish) (14 day)
	LC50 / 48 h	297 mg/ltr (Daphnia magna (water flea))

Symptoms / routes of exposure

Skin contact: Caustic effect on skin and mucous membranes.

Eye contact: Strong caustic effect

Sensitisation: No sensitising effects known.

Additional toxicological information: The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
Corrosive
Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of oesophagus and stomach.

Section 12: Ecological information

12.1. Toxicity

Aquatic toxicity: No further relevant information available.

12.2. Persistence and degradability

Persistence and degradability: No further relevant information available.

Other information: The product is biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential: No further relevant information available.

12.4. Mobility in soil

Mobility: No further relevant information available.

Additional ecological information: Do not allow product to reach ground water, water course or sewage system.

General notes:

Must not reach sewage water or drainage ditch undiluted or unneutralised.

Danger to drinking water if even small quantities leak into the ground.

In accordance with the requirements of the RVO in the Act on Detergents and Cleansing Agents, tensides are biodegradable up to at least 90 %.

Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

12.5. Results of PBT and vPvB assessment

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

12.6. Other adverse effects

Other adverse effects: No further relevant information available.

Section 13: Disposal considerations

13.1. Waste treatment methods

Recommendation: Must not be disposed together with household garbage. Do not allow product to reach sewage system

Uncleaned packaging: *Disposal must be made according to official regulations.*

Section 14: Transport information

14.1 UN-Number

ADR, IMDG, IATA: UN3266

14.2 UN proper shipping name

ADR: 3266 CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (SODIUM HYDROXIDE)

IMDG, IATA: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (SODIUM HYDROXIDE)

14.3 Transport hazard class(es)

ADR:



Class: 8 (C5) Corrosive substances.

Label: 8

IMDG, IATA:



Class: 8 Corrosive substances.

Label: 8

14.4 Packing group

ADR, IMDG, IATA I

14.5 Environmental hazards:

Marine pollutant: No

14.6 Special precautions for user

Warning: Corrosive substances.

Danger code (Kemler): 88

EMS Number: F-A,S-B

Segregation groups: Alkalis

Stowage category B

Stowage code SW2 Clear of living quarters

Segregation code SG35 Stow separate from SGC1-acids

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

Transport/Additional information:

ADR

Limited quantities (LQ): 1L

Excepted quantities (EQ): Code: E2
Maximum net quantity per inner packaging: 30ml
Maximum net quantity per outer packaging: 500ml

Transport category: 2

Tunnel restriction code E

IMDG

Limited quantities (LQ): 1L

Excepted quantities (EQ): Code: E2
Maximum net quantity per inner packaging: 30ml
Maximum net quantity per outer packaging: 500ml

UN "Model Regulation": UN3266, CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (SODIUM HYDROXIDE), 8, I

Section 15: Regulatory information

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

National regulations: Not applicable.

Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water

15.2. Chemical Safety Assessment

A Chemical Safety Assessment has been carried out.

Section 16: Other information

Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases: H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H335 May cause respiratory irritation