

CAS 7790-92-3 Hypochlorous Acid

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

1.1 Product Identifier

Product Name	Hypochlorous Acid
Product Codes	ASL0324

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

Identified Uses of the substance/mixture Cosmetic ingredient.

Uses advised against Uses other than those identified are not recommended

1.3 Details of the supplier of the safety data sheet

Manufacturer	Aqualution Systems Ltd Unit 2 Duns Industrial Park Station Road, Duns, TD11 3HS United Kingdom	Tel. +44 (0) 1361 883575 e-mail info@aqualution.co.uk
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1.4 Emergency Telephone Number

+44 (0) 1361 883575 (office hours 0830hrs to 1700hrs Monday to Thursday, 0830hrs to 1500hrs Friday)

Emergency Action: In the event of a medical enquiry involving this product, please contact your doctor or local hospital accident and emergency department.

2 Hazards Identification

2.1 Classification of Substance or mixture

Product Definition Mixture

Classification according to Regulation (EC) No. 1272/2008

Physical Hazards	None
Human Health Hazards	None
Environmental Hazards	None

2.2 Label Elements

Label Elements (In Accordance With (EC) No. 1272/2008)

Pictogram(s)	N/A
Signal Word	N/A
Hazard Statements	N/A
Precautionary statements	Prevention N/A Response N/A

2.3 Other hazards

Other hazards which do not result in classification

N/A



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3 Composition/Information on Ingredients

3.2 Mixtures

Product/Ingredient Name	Identifiers Index No/CAS/EC No	%	Classification under Regulation (EC) No. 1272/2008 [CLP]	Type
This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of REACH annex II				
There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section				
Type	1	Substance classified with a health or environmental hazard		
	2	Substance with a workplace exposure limit		
	3	Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII		
	4	Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII		
Occupational exposure limits, if available, are listed in Section 8.				

4 First aid measures

4.1 Description of first aid measures

Eye Contact	Obtain medical attention if pain, blinking or redness occurs and persists.
Inhalation	In the event of discomfort allow victim to breathe fresh air. Allow the victim to rest.
Skin Contact	Obtain medical attention if pain or redness occurs and persists.
Ingestion	Obtain emergency medical attention in the event of pain or discomfort. Do NOT induce vomiting.
Protection of First Aider	Wear PPE if appropriate (Refer to section 8.2)

4.2 Most important symptoms and effects, both acute and delayed

Symptoms

Not expected to present a significant hazard under anticipated conditions of normal use.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment

No additional information available

5 Fire fighting measures

5.1 Extinguishing media

Extinguishing media	No additional information available
Unsuitable extinguishing media	No additional information available

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture	No additional information available
Hazardous combustion products	No additional information available

5.3 Advice for fire-fighters

Special precautions for fire-fighters	No additional information available
Special protective equipment for fire-fighters	No additional information available



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6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Evacuate unnecessary personnel. Equip clean-up crew with proper protection. Ventilate area.

6.2 Environmental precautions

Do not discharge into drains/surface waters/groundwater. Contain contaminated water/firefighting water.

6.3 Methods and material for containment and cleaning up

Small spill:	Dilute with water and mop up or absorb with an inert dry material and place in an appropriate waste disposal container.
Large spill	Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with absorbent material e.g. dry sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13).

6.4 Reference to other sections

See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

7 Handling and storage

7.1 Precautions for safe handling

Keep container tightly closed. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Clean up spillages. Do not eat, drink or smoke in area where material is used or stored.

7.2 Conditions for safe storage, including any incompatibilities

Store in original labelled containers. Keep container tightly closed and upright. Avoid contact with strong bases and strong acids. Store away from sources of ignition, and away from direct sunlight. Store between 5-25 Deg C. Protect from freezing.

7.3 Specific end use(s)

Recommendations	Not specific advice available.
Industrial sector specific solutions	Not applicable.

8 Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
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No additional information available

Derived effect levels

No DNELs available for the mixture.

Predicted effect concentrations

No PNECs available for the mixture.

8.2 Exposure controls

Process conditions	Avoid all unnecessary exposure
Engineering Measures	No additional information available
Personal Protective Equipment	
Respiratory protection:	Not required in normal use.
Hand protection	Not required in normal use.
Eye protection	Not required in normal use.
Body protection:	Not required in normal use.

General safety and hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period



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9 Physical & chemical properties

9.1 Information on basic physical and chemical properties

Physical state	Liquid.
Colour	Clear Colourless
Odour	Product specific.
Odour threshold	Not determined for the mixture.
pH value 20 Deg C	6.5-7.5
Melting point/Freezing point	Not determined for the mixture.
Initial boiling point and boiling range	100.1 Deg C
Flash point	Not determined for the mixture.
Evaporation rate	Not determined for the mixture.
Flammability (solid, gas)	Not flammable.
Burning time	Not determined for the mixture.
Burning rate	Not determined for the mixture.
Upper/lower flammability or explosive limits	Not determined for the mixture.
Vapour pressure	Not determined for the mixture.
Relative density	1.000
Solubility(ies)	Readily soluble in cold and hot water
Partition coefficient: n-octanol/water	Not determined for the mixture.
Auto ignition temperature	Not determined for the mixture.
Decomposition temperature	Not determined for the mixture.
Viscosity	Not determined for the mixture.
Explosive properties	Not explosive
Oxidising properties	Not determined for the mixture.

9.2 Other Information

No further relevant information available

10 Stability and Reactivity

10.1 Reactivity	No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical Stability	Stable mixture under normal conditions or storage and use.
10.3 Possibility of hazardous reactions	Hazardous reactions will not occur in normal storage conditions.
10.4 Conditions to avoid	Direct sunlight. Extremes of Temperature
10.5 Incompatible materials	Strong acids. Strong bases. Chlorine gas may be released in the presence of strong acid
10.6 Hazardous decomposition products	Fume, None.



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11 Toxicology

11.1 Information on toxicological effects

Acute toxicity	Not classified
Skin corrosion/irritation	Not classified pH: 6.5 - 7.5
Additional information	Based on available data, the classification criteria are not met
Serious eye damage/irritation	Not classified pH: 6.5 - 7.5
Additional information	Based on available data, the classification criteria are not met
Respiratory or skin sensitisation	Not classified
Additional information	Based on available data, the classification criteria are not met
Germ cell mutagenicity	Not classified
Additional information	Based on available data, the classification criteria are not met
Carcinogenicity	Not classified
Additional information	Based on available data, the classification criteria are not met
Reproductive toxicity	Not classified
Additional information	Based on available data, the classification criteria are not met
STOT-single exposure	Not classified
Additional information	Based on available data, the classification criteria are not met
STOT-repeated exposure	Not classified
Additional information	Based on available data, the classification criteria are not met
Aspiration hazard	Not classified
Additional information	Based on available data, the classification criteria are not met
Potential Adverse human health effects and symptoms	Based on available data, the classification criteria are not met.

12 Ecological information

12.1 Toxicity

No additional information available

12.2 Persistence and degradability

Conclusion/Summary Any surfactants contained in the product are biodegradable according to the requirements of the detergent regulation 648/2004/EC

12.3 Bioaccumulative potential

Conclusion/Summary Not established.

12.4 Mobility in soil

Soil/water partition coefficient (KOC) No additional information available

Mobility No additional information available

12.5 Results of PBT and vPvB assessment

PBT No additional information available

vPvB No additional information available

12.6 Other adverse effects No known significant effects or critical hazards.

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13: Disposal considerations

13.1 Waste treatment methods

Waste from residues / unused products	Dispose of in compliance with all Federal, state, provincial, and local laws and regulations. EWC Code 20 01 30
Empty packaging recommendation:	Dispose of observing national or local regulations. (Can be cleaned with water) EWC Code 20 01 39

14: Transport information

	ADR/RID	ADN/ADNR	IMDG	IATA
14.1 UN number	None	None	None	None
14.2 UN proper shipping name	Not Required	Not Required	Not Required	Not Required
14.3 Transport hazard class(es):	Not considered to be hazardous for transport			
14.4 Packing group	Not Required	Not Required	Not Required	Not Required
14.5 Environmental hazards	None	None	None	None
14.6 Special precautions for user	None known	None known	None known	None known
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBCCode	Product not transported bulk tanker			
Other relevant information (ADR)	Not required			

15: Regulatory information

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

Ingredients according to EC Detergents Regulation 648/2004

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out on the mixture

16: Other information

The information in this document is based on our best present knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally binding contract

Reason for revision: Overall design adjusted in accordance with Regulation (EC) No 1907/2006, Annex II
* Indicates section(s) where changes have been made

Full text of the R, H and EUH phrases mentioned in section 3

Abbreviations and acronyms

ATE	Acute Toxicity Estimate
CLP	Classification, Labelling and Packaging Regulation [Regulation (EC) No.1272/2008]
DNEL	Derived No Effect Level
EUH statement	CLP-specific Hazard statement
N/A	Not Applicable
PNEC	Predicted No Effect Concentration
REACH No	REACH registration number, without supplier specific part