SAFETY DATA SHEET

according to Regulation (EU) 2015/830

1E Chlorinated Dishwash

Revision: 1
Revision date: 15/05/2020

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

1.1 Product identifier

Product name	1E Chlorinated Dishwash

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

Product Use	[SU22] Professional uses: Public domain (administration, education, entertainment, services, craftsmen); [PC35] Washing and cleaning products (including solvent based products);

1.3 Details of the supplier of the safety data sheet

Company	Ionic Products Ltd
Address	Blaris Industrial Estate, Altona Road, Lisburn, Co Antrim BT27 5QB United Kingdom
Web	www.ionicproductsltd.com
Telephone	028 9267 3331
Email:	Info@ionicproductsltd.com

1.4 Emergency telephone number

Emergency telephone number	028 9267 3331. In the event of a medical enquiry involving this product, please contact your GP or local A&E dept. Ireland: National Poisons Centre, Beaumont Hospital, Dublin 9 Tel: 01 809 2166. (8.00 a.m. to 10.00 p.m. 7 days a week) Tel: 01 809 2566 (health care professionals)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

2.1.2 Classification - EC 1272/2008	Skin Corr. 1A: H314; Aquatic Acute 1: H400; Aquatic Chronic 2: H411;

2.2 Label elements

Hazard pictograms	
Signal Word	Danger
Hazard Statement	Skin Corr. 1A: H314 - Causes severe skin burns and eye damage. Aquatic Acute 1: H400 - Very toxic to aquatic life. Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.
Precautionary Statement: Prevention	P273 - Avoid release to the environment. P280 - Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary Statement: Response	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/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. P310 -Immediately call a POISON CENTER/doctor/ . P363 - Wash contaminated clothing before reuse. P391 - Collect spillage.
Precautionary Statement Storage	P405 - Store locked up.
Precautionary Statement: Disposal	P501 - Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.

Further information

	Contains:. Potassium hydroxide

SECTION 3: Composition/information on ingredients

3.2 Mixtures

EC 1272/2008

Chemical name	Index No.	CAS No.	EC No.	REACH registration Number	Conc (%w/w)	Classification
Potassium hydroxide	019-002-00-8	1310-58-3	215-181-3	01-2119487136-33	10-20%	Acute Tox. 4: H302; Skin Corr. 1A: H314;
Sodium hypochlorite, solution	017-011-00-1	7681-52-9	231-668-3	01-2119488154-34	1-10%	EUH031; Skin Corr. 1B: H314; Aquatic Acute 1: H400;

SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation	Inhalation of vapour may cause shortness of breath. Move the exposed person to fresh air. Seek medical attention.
Eye contact	Causes burns. Causes severe inflammation and may damage the cornea. Wash with water. Seek medical attention.
Skin contact	Causes burns. Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.
Ingestion	Ingestion causes burns to the respiratory tract. DO NOT INDUCE VOMITING. If swallowed, seek medical advice immediately and show this container or label.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation	Irritant, Severe respiratory.
Eye contact	Causes severe burns.
Skin contact	Causes severe burns.
Ingestion	Causes severe burns.

4.3 Indication of any immediate medical attention and special treatment needed

	No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

SECTION 5: Firefighting measures

5.1 Extinguishing media

	Use as appropriate: Carbon dioxide (CO_2), Dry chemical, Foam.

5.2 Special hazards arising from the substance or mixture

	Corrosive. Burning produces irritating, toxic and obnoxious fumes.

5.3 Advice for firefighters

	Wear suitable respiratory equipment when necessary.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

	Ensure adequate ventilation of the working area. Evacuate personnel to a safe area. Wear suitable protective equipment.

6.2 Environmental precautions

	Do not allow product to enter drains. Prevent further spillage if safe.

6.3 Methods and material for containment and cleaning up

	Absorb with inert, absorbent material. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.

6.4 Reference to other sections

	For personal protective equipment see subsection 8.2. For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

	Avoid contact with eyes and skin. Ensure adequate ventilation of the working area. Adopt best manual handling considerations when handling, carrying and dispensing.

7.2 Conditions for safe storage, including any incompatibilities

	Keep in a cool, dry, well ventilated area. Keep containers tightly closed. Store in original containers. For incompatibilities refer to section 10.4.

7.3 Specific end use(s)

	No specific advice for end use available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.1.1 Exposure Limit Values - UK

Potassium hydroxide	WEL 8-hr limit ppm -	WEL 8-hr limit mg/m3 -
	WEL 15 min limit ppm -	WEL 15 min limit mg/m3: 2
	WEL 8-hr limit mg/m3 total inhalable dust: -	WEL 15 min limit mg/m3 total inhalable dust: -
	WEL 8-hr limit mg/m3 total respirable dust -	WEL 15 min limit mg/m3 total respirable dust: -

8.1.1 Occupational Exposure Limits Values (OELVs) - Ireland

Potassium hydroxide	Occupational Exposure Limit Value (8-hour reference period)	-
	Occupational Exposure Limit Value (15-minute reference period)	2 mg/m3

DNEL: Derived no-effect level.

Exposure Pattern - Workers

Potassium hydroxide	Acute inhalation - Local effects	1 mg/m³
Sodium hypochlorite, solution	Acute inhalation - Systemic effects	3.1 mg/m³
	Acute inhalation - Local effects	3.1 mg/m³
	Long-term - dermal - Systemic effects	1.55 mg/m³
	Long-term - inhalation - Local effects	1.55 mg/m³
	Long-term - dermal - Local effects	0.55 mg/m³

Exposure Pattern - General population

Potassium hydroxide	Acute inhalation - Local effects	1 mg/m³
Sodium hypochlorite, solution	Acute inhalation - Systemic effects	3.1 mg/m³
	Acute inhalation - Local effects	3.1 mg/m³
	Long-term - dermal - Systemic effects	1.55 mg/m³
	Long-term - oral - Systemic effects	0.25 mg/m³
	Long-term - inhalation - Local effects	1.55 mg/m³
	Long-term - dermal - Local effects	0.55 mg/m³

8.2 Exposure controls

	
	Adopt best Manual Handling considerations when handling, carrying and dispensing. Take off immediately all contaminated clothing. Avoid contact with skin and eyes. Wash hands after handling the product.
8.2.1 Appropriate engineering controls	Ensure adequate ventilation of the working area.
8.2.2 Individual protection measures	Wear chemical protective clothing.
Eye / face protection	Safety glasses. (EN166)
Skin protection - Hand protection	Chemical resistant gloves (PVC). (EN 374)
Respiratory protection	Not normally required. Do not breathe gas/fumes/vapour/spray.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Liquid
Colour	Yellow
Odour	Characteristic
pH	>12.0
Melting point	Not determined
Freezing Point	Not determined
Initial boiling point	Not determined
Flash point	Not determined
Evaporation rate	Not determined
Flammability (solid, gas)	Not applicable to liquids
Fat Solubility	Not determined
Partition coefficient	Not determined
Autoignition temperature	Not determined
Viscosity	<100 cp @20^{o}C
Explosive properties	Not explosive
Oxidising properties	Not oxidising
Solubility	Soluble in water
Vapour pressure	Not determined

9.2 Other information

Conductivity	Not determined
Surface tension	Not determined
Specific gravity	1.14 g/cm^3

SECTION 10: Stability and reactivity

10.1 Reactivity

No reactivity hazards known under normal storage and use conditions.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Acids. Amines.

10.4 Conditions to avoid

Heat. Avoid contact with: Acids.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Skin corrosion/irritation	Causes burns.
Germ cell mutagenicity	No mutagenic effects reported.
Carcinogenicity	No carcinogenic effects reported.
Reproductive toxicity	No observed effect level.

11.1.4 Toxicological Information

Potassium hydroxide	Inhalation Rat LC50/15min:	NDA	Dermal Rat LD50:	NDA
	Oral Rat LD50:	NDA	Oral Mouse LD50	388
	Dermal Rabbit LD50:	NDA	Dermal Guinea Pig LD50:	NDA
Sodium hypochlorite, solution	Inhalation Rat LC50/15min:	>10.5mg/l	Dermal Rat LD50:	NDA
	Oral Rat LD50:	NDA	Oral Mouse LD50	2900 - 3400 mg/l
	Dermal Rabbit LD50:	>2000 mg/l	Dermal Guinea Pig LD50:	NDA

SECTION 12: Ecological information

12.1 Toxicity

Potassium hydroxide	Algae EC50/72h:	NDA
	Guppy LC50/96h:	30-1000 mg/l
	Daphnia LC50/48h:	NDA
Sodium hypochlorite, solution	Fish LC50/96h:	0.62 mg/l
	Green Algae EC50/24h:	28 mg/l
	Daphnia LC50/96h:	2.1 mg/l

12.2 Persistence and degradability

No data is available on this product.

12.3 Bioaccumulative potential

	No data is available on this product.

Partition coefficient

	No data is available on this product.

12.4 Mobility in soil

	No data is available on this product.

12.5 Results of PBT and vPvB assessment

	Substances that fulfill the criteria for PBT/vPvB, if any, are listed in section 3.

12.6 Other adverse effects

	No other adverse effects known.

SECTION 13: Disposal considerations

General information

	Dispose of in compliance with all local and national regulations.

Disposal of packaging

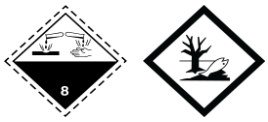
	Dispose of in compliance with all local and national regulations. Empty containers can be cleaned with water.

Further information

	European Waste Catalogue: 20 01 15 alkalines.

SECTION 14: Transport information

Hazard pictograms

14.1 UN number

	UN1719

14.2 UN proper shipping name

	CAUSTIC ALKALI LIQUID, N.O.S. (SODIUM HYPOCHLORITE & POTASSIUM HYDROXIDE)

14.3 Transport hazard class(es)

ADR/RID	8
Subsidiary risk	-
IMDG	8
Subsidiary risk	-
IATA	8
Subsidiary risk	-

14.4 Packing group

Packing group	II

14.5 Environmental hazards

Environmental hazards	Yes
Marine pollutant	Yes

ADR/RID

Hazard ID	80
Tunnel Category	E

IMDG

EmS Code	F-A-S-B

IATA

Packing Instruction (Cargo)	855
Maximum quantity	30L
Packing Instruction (Passenger)	851
Maximum quantity	1L

SECTION 15: Regulatory information

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

	EU regulations: • Regulation(EC)No.1907/2006 - REACH • Regulation(EC)No1272/2008 - CLP • Regulation(EC)No.648/2004 - Detergents regulation Ingredients according to EC Detergents Regulation 648/2004 5% - < 15% Phosphonates, 0% - < 5% Chlorine - based bleaching agents

15.2 Chemical safety assessment

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

SECTION 16: Other information

Other information

Revision	This document differs from the previous version in the following areas:. Changes to sections 1, 3, 8, 9, 11, 12, 15
Acronyms	LC: Lethal concentration. LD: Lethal dose. NDA - No data available. NOAEC: No observed adverse effect concentration. NOAEL: No observed adverse effect level. NOEC: No observed effect concentration. NOEL: No observed effect level. PBT: Persistent, bioaccumulative and toxic. SVHC. Substance of very high concern. vPvB. Very persistent and very bioaccumulative. *R01 - Polymer REACH number not available.
Text of Hazard Statements in Section 3	Acute Tox. 4: H302 - Harmful if swallowed. Skin Corr. 1A: H314 - Causes severe skin burns and eye damage. Skin Corr. 1B: H314 - Causes severe skin burns and eye damage. Skin Irrit. 2: H315 - Causes skin irritation. Eye Irrit. 2: H319 - Causes serious eye irritation. EUH031 - Contact with acids liberates toxic gas. Aquatic Acute 1: H400 - Very toxic to aquatic life.

Further information

	The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Internal ref: F000002