



Companion in Hygiene Solutions

SAFETY DATA SHEET
according to Regulation (EU) 2015/830

4K Chlorine Tablets

Revision: 1
Revision date: 03/07/2020

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

1.1 Product identifier

Product name	4K Chlorine Tablets
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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);
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1.3 Details of the supplier of the safety data sheet

Company Address	Ionic Products Ltd 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)
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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

2.1.2 Classification - EC 1272/2008	Eye Irrit. 2 - H319 STOT SE 3 - H335 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410
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2.2 Label elements

Hazard pictograms	
Signal Word	Warning
Hazard Statement	H319 Causes serious eye irritation. H335 May cause respiratory irritation. H410 Very toxic to aquatic life with long lasting effects.
Precautionary Statement: Prevention	P271 Use only outdoors or in a well-ventilated area. P273 Avoid release to the environment. P280 Wear eye protection.
Precautionary Statement: Response	P337+P313 If eye irritation persists: Get medical advice/attention. P391 Collect spillage.
Precautionary Statement Storage	P402+P404 Store in a dry place. Store in a closed container.
Precautionary Statement: Disposal	P501 Dispose of contents/container in accordance with local regulations.

Further information

Supplemental label information	EUH031 Contact with acids liberates toxic gas. RCH002b For professional users only.
Contains	TROCLOSENE SODIUM
Supplementary precautionary statements	P280 Wear protective clothing. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P312 Call a POISON CENTER/doctor if you feel unwell. P403+P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up.

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
Troclosene sodium		51580-86-0	220-767-7	01-2119489371-33	30-60%	Acute Tox. 4: H302; Eye Irrit. 2: H319; STOT SE 3: H335; Aquatic Chronic 1: H410; EUH031;
Adipic acid		124-04-9	204-673-3		10-30%	Eye Irrit. 2: H319;
Sodium carbonate	011-005-00-2	497-19-8	207-838-8	01-2119485498-19	1-5%	Eye Irrit. 2: H319

SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation	Move the exposed person to fresh air. Seek medical attention.
Eye contact	Irritating to eyes. Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention if irritation or symptoms persist.
Skin contact	Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.
Ingestion	Ingestion may cause nausea and vomiting. Seek medical attention if irritation or symptoms persist. DO NOT INDUCE VOMITING.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation	May cause irritation to respiratory system.
Eye contact	Irritating to eyes
Skin contact	No irritation expected.
Ingestion	Irritant.

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.
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SECTION 5: Firefighting measures

5.1 Extinguishing media

	Use extinguishing media appropriate to the surrounding fire conditions.
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5.2 Special hazards arising from the substance or mixture

	Protection against nuisance dust must be used when the airborne concentration exceeds 10 mg/m ³ . Oxides of carbon. Oxides of nitrogen. Fire or high temperatures create: Thermal decomposition or combustion products may include the following substances: Very corrosive gases or vapours. Chlorine. Hydrogen chloride (HCl).
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5.3 Advice for firefighters

	Wear suitable respiratory equipment when necessary.
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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

	Ensure adequate ventilation of the working area. Wear suitable protective equipment.
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6.2 Environmental precautions

	Do not allow product to enter drains. Prevent further spillage if safe.
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6.3 Methods and material for containment and cleaning up

	Sweep up. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.
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6.4 Reference to other sections

	For personal protective equipment see subsection 8.2. For disposal considerations see section 13.
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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.
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7.2 Conditions for safe storage, including any incompatibilities

	Keep in a cool, dry, well ventilated area. Keep containers tightly closed. For incompatibilities refer to section 10.4.
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7.3 Specific end use(s)

	No specific advice for end use available.
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SECTION 8: Exposure controls/personal protection

DNEL: Derived no-effect level.



Exposure Pattern - Workers

Trosclosene sodium	Long-term - inhalation - Systemic effects	8.11 mg/m ³
	Long-term - dermal - Systemic effects	2.3 mg/kg
Sodium carbonate	Acute inhalation - Local effects	10 mg/kg

Exposure Pattern - General population

Trosclosene sodium	Long-term - inhalation - Systemic effects	1.99 mg/m ³
	Long-term - dermal - Systemic effects	1.15 mg/kg
	Long-term - oral - Systemic effects	
Sodium carbonate	Acute inhalation - Local effects	10 mg/kg

8.2 Exposure controls

8.2.1 Appropriate engineering controls 8.2.2 Individual protection measures Eye / face protection Skin protection - Hand protection Respiratory protection	 
	Adopt best Manual Handling considerations when handling, carrying and dispensing. Take off immediately all contaminated clothing. Wash hands after handling the product.
	Ensure adequate ventilation of the working area.
	Use appropriate personal protective equipment.
	Safety glasses. (EN166)
Wash hands after handling the product. For prolonged contact protection for the skin may be necessary. (EN374)	
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	Flat tablet
Colour	White
Odour	Characteristic bleach
pH	@ 1%: 4-6
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 determined
Fat Solubility	Not determined
Partition coefficient	Not determined
Autoignition temperature	Not determined
Viscosity	Not applicable
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
Bulk density	Not determined

SECTION 10: Stability and reactivity

10.1 Reactivity

	No reactivity hazards known under normal storage and use conditions.
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10.2 Chemical stability

	Stable under normal conditions. HAZARDOUS DECOMPOSITION PRODUCTS: Heating may generate the following products: Carbon monoxide (CO). Oxides of nitrogen. Hydrogen chloride (HCl). Isocyanates.
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10.3 Possibility of hazardous reactions

	Will not polymerise. The following materials may react with the product: Acids. Alkalis. Organic nitro compounds. Amines. Oxidising agents. Reducing agents. Moisture. Peroxides. Contact with acids liberates toxic gas. Under normal conditions of storage and use, no hazardous reactions will occur.
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10.4 Conditions to avoid

	Avoid contact with the following materials: Acids. Oxidising agents. Avoid exposure to high temperatures or direct sunlight. Avoid contact with strong reducing agents. MATERIALS TO AVOID: Flammable/combustible materials. Organic materials, oils, grease, sawdust, reducing agents, nitrogen-containing compounds (NaDCC may generate nitrogen trichloride which is explosive), oxidizing substances, acids and alkalis, damp or slightly wet conditions.
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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Skin corrosion/irritation	Irritating to eyes.
Germ cell mutagenicity	No mutagenic effects reported.
Carcinogenicity	No carcinogenic effects reported.
Reproductive toxicity	No observed effect level.

11.1.4 Toxicological Information

Troclosene sodium	Dermal Rat LD50: >5000 mg/kg	Oral Rat LD50: 1671 mg/kg
	Oral Mouse LD50: NDA	Dermal Rabbit LD50: NDA
	Dermal Guinea Pig LD50: NDA	Inhalation Rat LC50/4 h: >59 mg/l
Adipic acid	Inhalation Rat LC50/15min: NDA	Dermal Rat LD50: NDA
	Oral Rat LD50: NDA	Oral Mouse LD50: NDA
	Dermal Rabbit LD50: NDA	Dermal Guinea Pig LD50: NDA
Sodium carbonate	Inhalation Rat LC50/15min: NDA	Dermal Rat LD50: NDA
	Oral Rat LD50: 2800 mg/kg	Oral Mouse LD50: NDA
	Dermal Rabbit LD50: >2000mg/kg	Dermal Guinea Pig LD50: NDA

SECTION 12: Ecological information**12.1 Toxicity**

Troclosene sodium	Daphnia EC50/48h: 0.21 mg/l
	Fish LC50/96h: 0.46 mg/l
	Algae IC50/72h: NDA
Adipic acid	Algae EC50/72h: NDA
	Guppy LC50/96h: NDA
	Daphnia LC50/48h: NDA
Sodium carbonate	Algae EC50/72h: NDA
	Fish LC50/96h: 300 mg/l
	Daphnia LC50/48h: 227 mg/l

12.2 Persistence and degradability

	No data is available on this product.
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12.3 Bioaccumulative potential

	No data is available on this product.
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Partition coefficient

	No data is available on this product.
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12.4 Mobility in soil

	No data is available on this product.
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12.5 Results of PBT and vPvB assessment

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

	No other adverse effects known.
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SECTION 13: Disposal considerations**General information**

	Dispose of in compliance with all local and national regulations.
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Disposal of packaging

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

	European Waste Catalogue: 20 01 29.
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SECTION 14: Transport information**14.1 UN number**

	The product is not classified as dangerous for carriage.
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14.2 UN proper shipping name

	The product is not classified as dangerous for carriage.
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14.3 Transport hazard class(es)

ADR/RID	The product is not classified as dangerous for carriage.
Subsidiary risk	-
IMDG	The product is not classified as dangerous for carriage.
Subsidiary risk	-
IATA	The product is not classified as dangerous for carriage.
Subsidiary risk	-

14.4 Packing group

Packing group	The product is not classified as dangerous for carriage.
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14.5 Environmental hazards

Environmental hazards	No
Marine pollutant	No

ADR/RID

Hazard ID	-
Tunnel Category	-

IMDG

EmS Code	-
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IATA

Packing Instruction (Cargo)	-
Maximum quantity	-
Packing Instruction (Passenger)	-
Maximum quantity	-

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

	<p>EU regulations:</p> <ul style="list-style-type: none"> • Regulation(EC)No.1907/2006 - REACH • Regulation(EC)No1272/2008 - CLP • Regulation(EC)No.648/2004 - Detergents regulation <p>Ingredients according to EC Detergents Regulation 648/2004 >30% :Chlorine based bleaching agents,</p>
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15.2 Chemical safety assessment

	A chemical safety assessment has not been carried out on the mixture.
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SECTION 16: Other information**Other information**

Revision	This document differs from the previous version in the following areas:
Acronyms	<p>Changes to sections 1, 3, 8, 9, 11, 12, 15</p> <p>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.</p>
Text of Hazard Statements in Section 3	<p>EUH031 - Contact with acids liberates toxic gas. Acute Tox. 4: H302 - Harmful if swallowed. Eye Irrit. 2: H319 - Causes serious eye irritation. STOT SE 3: H335 - May cause respiratory irritation. Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects.</p>

Further information

	<p>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.</p> <p>Internal ref: FB00003. Based on SDS Rev 18, Date: 13/03/15, SDS no.:10243</p>
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