



SAFETY DATA SHEET
SUPER PROFESSIONAL CHLORINE TABLETS W4
 Commission Regulation (EU) No 2015/830 of 28 May 2015.

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

1.1. Product identifier

Product name SUPER PROFESSIONAL CHLORINE TABLETS W4
Product number 800-299-0001 W4
Container size 200 TAB

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

Identified uses Cleaning agent. Disinfectant.
Uses advised against No specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet

Supplier Mirius™
 A Coventry Group Company
 Woodhams Road
 Siskin Drive
 Coventry
 CV3 4FX
 Tel: +44 (0) 02476 639 739
 Fax: +44 (0) 02476 639 717
 Email: sales@mirius.com

Contact person For content of safety data sheet:, sds@mirius.com

1.4. Emergency telephone number

Emergency telephone +44 (0) 1865407333 (Strictly for emergencies only: incidents involving damage to human health and/or the environment)

National emergency telephone number In case of a medical emergency following exposure to a chemical call NHS Direct in England or Wales 0845 46 47 or NHS 24 in Scotland 08454 24 24 24

SECTION 2: Hazards identification

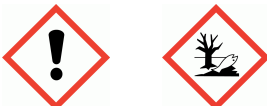
2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified
Health hazards Acute Tox. 4 - H302 Eye Irrit. 2 - H319 STOT SE 3 - H335
Environmental hazards Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

2.2. Label elements

Pictogram



SUPER PROFESSIONAL CHLORINE TABLETS W4

Signal word	Warning
Hazard statements	H302 Harmful if swallowed. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H410 Very toxic to aquatic life with long lasting effects.
Precautionary statements	P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P273 Avoid release to the environment. P280 Wear eye and face protection. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 If eye irritation persists: Get medical advice/ attention. P405 Store locked up. P411 Store at temperatures not exceeding 50°C. P404 Store in a closed container. P501 Dispose of contents/ container in accordance with local regulations.
Supplemental label information	EUH031 Contact with acids liberates toxic gas. EUH206 Warning! Do not use together with other products. May release dangerous gases (chlorine).
Contains	TROCLOSENE SODIUM, DIHYDRATE
Detergent labelling	≥ 30% chlorine-based bleaching agents

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients

3.2. Mixtures

TROCLOSENE SODIUM, DIHYDRATE		30-60%
CAS number: 51580-86-0	EC number: 220-767-7	REACH registration number: 01-2119489371-33-XXXX
M factor (Acute) = 1	M factor (Chronic) = 1	
Classification	Classification (67/548/EEC or 1999/45/EC)	
Acute Tox. 4 - H302	Xn;R22 Xi;R36/37 R31 N;R50/53	
Eye Irrit. 2 - H319		
STOT SE 3 - H335		
Aquatic Acute 1 - H400		
Aquatic Chronic 1 - H410		
ADIPIC ACID		5-10%
CAS number: 124-04-9	EC number: 204-673-3	
Classification	Classification (67/548/EEC or 1999/45/EC)	
Eye Irrit. 2 - H319	Xi;R36	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

SUPER PROFESSIONAL CHLORINE TABLETS W4

4.1. Description of first aid measures

Inhalation	Move affected person to fresh air at once. Get medical attention if any discomfort continues. Rinse nose and mouth with water.
Ingestion	Do not induce vomiting. Rinse mouth thoroughly with water. Give plenty of water to drink. Keep affected person under observation. Get medical attention if any discomfort continues. Show this Safety Data Sheet to the medical personnel.
Skin contact	Remove contaminated clothing. Get medical attention if irritation persists after washing. Rinse immediately with plenty of water.
Eye contact	Immediately flush with plenty of water for at least 15 minutes. Remove any contact lenses and hold eyelids open widely. Get medical attention. Show this Safety Data Sheet to the medical personnel.

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

Inhalation	Solid material in tablet form, inhalation unlikely.
Ingestion	This product is corrosive. May cause chemical burns in mouth and throat. May cause stomach pain or vomiting.
Skin contact	Causes severe burns. Prolonged contact causes serious tissue damage.
Eye contact	This product is corrosive. May cause chemical eye burns. Corneal damage. Severe irritation, burning, tearing and blurred vision.

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

Notes for the doctor	No specific recommendations. If in doubt, get medical attention promptly.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Water spray. Carbon dioxide (CO ₂). Alcohol-resistant foam.
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5.2. Special hazards arising from the substance or mixture

Hazardous combustion products	Thermal decomposition or combustion products may include the following substances: Toxic gases or vapours. Chlorine. Hydrogen chloride (HCl). Oxides of carbon.
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5.3. Advice for firefighters

Protective actions during firefighting	Control run-off water by containing and keeping it out of sewers and watercourses.
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Decontaminate fire fighting equipment and apparel after the incident using a 10% solution of sodium carbonate.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Avoid contact with skin, eyes and clothing. For personal protection, see Section 8.
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6.2. Environmental precautions

Environmental precautions	Collect and dispose of spillage as indicated in Section 13. Do not discharge into drains or watercourses or onto the ground.
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6.3. Methods and material for containment and cleaning up

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Methods for cleaning up Provide adequate ventilation. Avoid the spillage or runoff entering drains, sewers or watercourses. Contain spilled material. Do not add water to spilled material. Sweep and scoop up all spilled material, contaminated soil and other contaminated material. Collect and place in suitable waste disposal containers and seal securely. Do not close drums containing wet or damp material. Do not transport wet or damp material.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. See Section 11 for additional information on health hazards. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Observe any occupational exposure limits for the product or ingredients. Avoid inhalation of vapours and spray/mists. Avoid contact with skin and eyes. Vapour space in a closed container may contain a slight amount of chlorine gas and compounds from decomposition of the product. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. Provide adequate ventilation. Do not eat, drink or smoke when using the product. Avoid contact with acids and other cleaning agents.

Advice on general occupational hygiene Good personal hygiene procedures should be implemented. Do not eat, drink or smoke when using this product. Provide eyewash station. Wash promptly with soap and water if skin becomes contaminated. Wash contaminated clothing before reuse. Use appropriate skin cream to prevent drying of skin.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place. Protect from light. Store away from the following materials: Acids. Do not allow water to enter the container as it will react with the product. Keep out of reach of children. Store at temperatures between 5°C and 30°C.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2. Mix only with water. Do not mix with other cleaning chemicals

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

TROCLOSENE SODIUM, DIHYDRATE

Short-term exposure limit (15-minute): 0.07 mg/m³

Long-term exposure limit (8-hour TWA): 0.02 mg/m³
as -NCO

Ingredient comments Additional Occupational Exposure Limit Values for possible hazards during processing:
7782-50-5 chlorine WEL (Great Britain) Short-term value: 1.5 mg/m³, 0.5 ppm
IOELV (EU) Short-term value: 1.5 mg/m³, 0.5 ppm

TROCLOSENE SODIUM, DIHYDRATE (CAS: 51580-86-0)

SUPER PROFESSIONAL CHLORINE TABLETS W4

DNEL	Workers - Inhalation; Long term systemic effects: 8.11 mg/m ³ Workers - Dermal; Long term systemic effects: 2.3 mg/kg/day General population - Inhalation; Long term systemic effects: 1.99 mg/m ³ General population - Dermal; Long term systemic effects: 1.15 mg/kg/day General population - Oral; Long term systemic effects: 1.15 mg/kg/day
PNEC	- Fresh water; 0.0 mg/l - Intermittent release, Fresh water; 0.0002 mg/l - marine water; 1.52 mg/l - STP; 0.59 mg/l - Sediment (Freshwater); 7.56 mg/kg - Soil; 0.756 mg/kg

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate ventilation.

Eye/face protection

The following protection should be worn: Chemical splash goggles. EN 166

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. 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. It is recommended that gloves are made of the following material: Nitrile rubber. Polyvinyl chloride (PVC). Rubber (natural, latex). To protect hands from chemicals, gloves should comply with European Standard EN374.

Other skin and body protection

Wear appropriate clothing to prevent repeated or prolonged skin contact.

Hygiene measures

When using do not eat, drink or smoke. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. Use appropriate skin cream to prevent drying of skin.

Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn.

Environmental exposure controls

Avoid releasing into the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Tablet
Colour	White/off-white.
Odour	Faintly of chlorine.
pH	pH (diluted solution): 5.0 - 6.0 (i tablet in 1 litre of water)
Relative density	Not applicable.
Solubility(ies)	Soluble in water.
Explosive properties	Not considered to be explosive.

SUPER PROFESSIONAL CHLORINE TABLETS W4

Explosive under the influence of a flame	Not considered to be explosive.
Oxidising properties	Not available. Sodium dichloroisocyanurate in an inert effervescent base has oxidising properties in the sense of the directive 91/69/EEC.
Comments	Information given concerns the solid substance.

9.2. Other information

Other information	Not relevant.
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	Reacts with many inorganic and organic compounds
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10.2. Chemical stability

Stability	Stable under the prescribed storage conditions.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Will not polymerise.
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10.4. Conditions to avoid

Conditions to avoid	Avoid exposure to high temperatures or direct sunlight. Avoid heat, flames and other sources of ignition. Water, moisture.
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10.5. Incompatible materials

Materials to avoid	Strong acids. Avoid contact with strong reducing agents. Organic materials. Ammonium compounds.
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10.6. Hazardous decomposition products

Hazardous decomposition products	Chlorine. Hydrogen chloride (HCl). Chlorine oxides. Will decompose at temperatures exceeding 250°C.
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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects	Information given is based on data of the components and of similar products.
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Other health effects	There is no evidence that the product can cause cancer.
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Acute toxicity - oral

Notes (oral LD₅₀)	Harmful if swallowed. Calculation method.
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ATE oral (mg/kg)	1,922.5
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Acute toxicity - dermal

Notes (dermal LD₅₀)	Based on available data the classification criteria are not met.
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Acute toxicity - inhalation

Notes (inhalation LC₅₀)	Based on available data the classification criteria are not met.
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Skin corrosion/irritation

Animal data	Moderately irritating.
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Serious eye damage/irritation

Serious eye damage/irritation	Severe irritation.
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SUPER PROFESSIONAL CHLORINE TABLETS W4

Respiratory sensitisation

Respiratory sensitisation May cause respiratory irritation. Calculation method.

Skin sensitisation

Skin sensitisation Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vivo No known or reported effects.

Carcinogenicity

Carcinogenicity No known or reported effects.

Reproductive toxicity

Reproductive toxicity - fertility No known or recorded effects on reproductive function or foetal development

General information

This product has low toxicity. Should a single tablet be ingested, no short or long term effect should result, other than a mild upset stomach. Allowing for a two fold higher sensitivity for humans than rats, the likely lethal dose would be 63g Sodium Dichloroisocyanurate or 37 tablets for a 70kg adult. For a 12kg child 10g Sodium Dichloroisocyanurate or 6 tablets.

Inhalation

Irritating to respiratory system. Dust in high concentrations may irritate the respiratory system. Symptoms following overexposure may include the following: Coughing.

Ingestion

Ingestion may cause severe irritation of the mouth, the oesophagus and the gastrointestinal tract.

Skin contact

Direct contact on dry skin with dry material is not irritating. Contact on damp skin or with wet material may cause irritation.

Eye contact

Irritating to eyes. May cause temporary eye irritation.

Toxicological information on ingredients.

TROCLOSENE SODIUM, DIHYDRATE

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 769.0

Species Rat

Notes (oral LD₅₀) Harmful if swallowed. REACH dossier information.

ATE oral (mg/kg) 769.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 5,000.0

Species Rat

Notes (dermal LD₅₀) Not classified. REACH dossier information.

ATE dermal (mg/kg) 5,000.0

Skin corrosion/irritation

Skin corrosion/irritation Corrosive to skin. REACH dossier information.

Serious eye damage/irritation

SUPER PROFESSIONAL CHLORINE TABLETS W4

Serious eye damage/irritation	Causes serious eye damage. REACH dossier information.
<u>Skin sensitisation</u>	
Skin sensitisation	Not sensitising. REACH dossier information.
<u>Germ cell mutagenicity</u>	
Genotoxicity - in vitro	Negative. REACH dossier information.
Genotoxicity - in vivo	Negative. REACH dossier information.
<u>Carcinogenicity</u>	
Carcinogenicity	No evidence of carcinogenicity in animal studies. REACH dossier information.
<u>Reproductive toxicity</u>	
Reproductive toxicity - fertility	This substance has no evidence of toxicity to reproduction. REACH dossier information.

SECTION 12: Ecological information

Ecotoxicity	The product contains a substance which is very toxic to aquatic organisms.
<u>12.1. Toxicity</u>	
Toxicity	Information for Sodium Dichloroisocyanurate Acid
<u>Acute aquatic toxicity</u>	
Acute toxicity - fish	LC ₅₀ , 96 hours: 0.13 - 0.36 mg/l, Oncorhynchus mykiss (Rainbow trout)
Acute toxicity - aquatic invertebrates	Reference: AISE report "Environmental classification of sodium hypochlorite containing bleach products.", 9 September 2009. EC ₅₀ , 48 hours: > 1 mg/l mg/l, Daphnia magna

Ecological information on ingredients.

TROCLOSENE SODIUM, DIHYDRATE

<u>Acute aquatic toxicity</u>	
LE(C)₅₀	0.1 < L(E)C ₅₀ ≤ 1
M factor (Acute)	1
Acute toxicity - fish	LC ₅₀ , 96 hours: 0.24 mg/l, Oncorhynchus mykiss (Rainbow trout) REACH dossier information.
Acute toxicity - aquatic invertebrates	LC ₅₀ , 48 hour: 0.196 (analytical purity 58.8%) mg/l, Daphnia magna REACH dossier information.
Acute toxicity - aquatic plants	NOEC, 3 hours: <0.5 mg/l, Algae REACH dossier information.
Acute toxicity - microorganisms	EC ₅₀ , 3 hours: 51 mg/l, Activated sludge REACH dossier information.
<u>Chronic aquatic toxicity</u>	
M factor (Chronic)	1
Chronic toxicity - fish early life stage	NOEC, 28 days: 1000 mg/l mg/l, Oncorhynchus mykiss (Rainbow trout) REACH dossier information.

12.2. Persistence and degradability

SUPER PROFESSIONAL CHLORINE TABLETS W4

Persistence and degradability The materials used in this preparation will not persist in the environment. The product is degraded completely by hydrolysis. Reacts with organic substances in soil and sediments and degrades rapidly to chloride salts.

12.3. Bioaccumulative potential

Bioaccumulative potential The product is not bioaccumulating.

12.4. Mobility in soil

Mobility The product is water-soluble and may spread in water systems.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Do not discharge into drains or watercourses or onto the ground.

Disposal methods Do not put product into waste compactor. Contact with incompatible materials may cause a reaction and fire. Neutralise materials to a non-oxidising state for safe disposal. Dispose of via an authorised and appropriately licensed waste contractor. Packaging is recyclable. Wash out containers with water before disposal.

Waste class EWC Code: 16 09 04

SECTION 14: Transport information

General As supplied, this product is consigned under the Limited Quantities provisions. For limited quantity packaging/limited load information, consult the relevant modal documentation using the data shown in this section.

14.1. UN number

UN No. (ADR/RID) 3077

UN No. (IMDG) 3077

UN No. (ICAO) 3077

UN No. (ADN) 3077

14.2. UN proper shipping name

Proper shipping name (ADR/RID) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS TROCLOSENE SODIUM, DIHYDRATE)

Proper shipping name (IMDG) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS TROCLOSENE SODIUM, DIHYDRATE)

Proper shipping name (ICAO) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS TROCLOSENE SODIUM, DIHYDRATE)

Proper shipping name (ADN) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS TROCLOSENE SODIUM, DIHYDRATE)

14.3. Transport hazard class(es)

ADR/RID class 9

SUPER PROFESSIONAL CHLORINE TABLETS W4

ADR/RID classification code	M7
ADR/RID label	9
IMDG class	9
ICAO class/division	9
ADN class	9

Transport labels



14.4. Packing group

ADR/RID packing group	III
IMDG packing group	III
ICAO packing group	III
ADN packing group	III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



14.6. Special precautions for user

EmS	F-A, S-F
ADR transport category	3
Emergency Action Code	2Z
Hazard Identification Number (ADR/RID)	90
Tunnel restriction code	(E)

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 Not applicable.

SECTION 15: Regulatory information

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

National regulations	Control of Substances Hazardous to Health Regulations 2002 (as amended).
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).
Guidance	COSHH Essentials. ECHA Guidance on the Application of the CLP Criteria. ECHA Guidance on the compilation of safety data sheets.

15.2. Chemical safety assessment

SUPER PROFESSIONAL CHLORINE TABLETS W4

Currently we do not have information from our suppliers about this.

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet	PBT: Persistent, Bioaccumulative and Toxic substance. vPvB: Very Persistent and Very Bioaccumulative. MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. PNEC: Predicted No Effect Concentration. DNEL: Derived No Effect Level.
Revision comments	NOTE: Lines within the margin indicate significant changes from the previous revision. New revision number applied to comply with Commission Regulation (EU) No 2015/830 Of 28 May 2015'
Revision date	11/02/2019
Revision	2
Supersedes date	23/07/2018
SDS number	21856
Risk phrases in full	R2 Risk of explosion by shock, friction, fire or other sources of ignition. R22 Harmful if swallowed. R31 Contact with acids liberates toxic gas. R36 Irritating to eyes. R36/37 Irritating to eyes and respiratory system. R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R8 Contact with combustible material may cause fire.
Hazard statements in full	H302 Harmful if swallowed. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects.

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 process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.