

SAFETY DATA SHEET

CHLOROGENE T25

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Compilation date: 31/01/2019

Revision date: 04/06/2019

Revision No: 3

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

1.1. Product identifier

Product name: CHLOROGENE T25

Synonyms: 25G CHLORINE DIOXIDE TABLET

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

Use of substance / mixture: For use as directed to generate chlorine dioxide for drinking water treatment and disinfection use.

1.3. Details of the supplier of the safety data sheet

Company name: Pro Swim Supplied by: Water Treatment Products Ltd

Unit 1 Gilchrist Thomas Industrial Estate

Blaenavon

Pontypool

Torfaen

NP4 9RL

Tel: 01495 792790

Fax: 01495 792090

Email: sales@watertreatmentproducts.co.uk

1.4. Emergency telephone number

Emergency tel: 01495 792790

(office hours only)

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: Ox. Sol. 2: H272; Acute Tox. 3: H301; Skin Corr. 1B: H314; STOT RE 2: H373; Aquatic Acute 1: H400; Acute Tox. 3: H311; -: EUH032

Most important adverse effects: May intensify fire; oxidiser. Toxic if swallowed. Toxic in contact with skin. Causes severe skin burns and eye damage. May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life. Contact with acids liberates very toxic gas.

2.2. Label elements

Label elements:

Hazard statements: H272: May intensify fire; oxidiser.

H301: Toxic if swallowed.

H311: Toxic in contact with skin.

H314: Causes severe skin burns and eye damage.

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H373: May cause damage to organs through prolonged or repeated exposure.

H400: Very toxic to aquatic life.

EUH032: Contact with acids liberates very toxic gas.

Hazard pictograms: GHS03: Flame over circle

GHS05: Corrosion

GHS06: Skull and crossbones

GHS08: Health hazard

GHS09: Environmental



Signal words: Danger

Precautionary statements: P102: Keep out of reach of children.

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P220: Keep away from clothing and other combustible materials.

P260: Do not breathe dust.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P301+P310: IF SWALLOWED: Immediately call a doctor.

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water or 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.

P501: Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

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

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

SODIUM HYDROGENSULPHATE - REACH registered number(s): 01-2119552465-36-XXXX

EINECS	CAS	PBT / WEL	CLP Classification	Percent
231-665-7	7681-38-1	-	Eye Dam. 1: H318	30-50%

[cont...]

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SODIUM CHLORITE - REACH registered number(s): 01-2119529240-51-XXXX

231-836-6	7758-19-2	-	Skin Corr. 1A: H314; Acute Tox. 1: H310+H330; STOT RE 2: H373; Aquatic Chronic 1: H410; -: EUH032; Acute Tox. 3: H301	10-30%
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Section 4: First aid measures

4.1. Description of first aid measures

- Skin contact:** Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Transfer to hospital if there are burns or symptoms of poisoning.
- Eye contact:** Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.
- Ingestion:** Wash out mouth with water. Do not induce vomiting. Give 1 cup of water to drink every 10 minutes. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. Transfer to hospital as soon as possible.
- Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. If unconscious and breathing is OK, place in the recovery position. If conscious, ensure the casualty sits or lies down. If breathing becomes bubbly, have the casualty sit and provide oxygen if available. Consult a doctor.

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

- Skin contact:** Blistering may occur. Progressive ulceration will occur if treatment is not immediate.
- Eye contact:** Corneal burns may occur. May cause permanent damage.
- Ingestion:** Corrosive burns may appear around the lips. Blood may be vomited. There may be bleeding from the mouth or nose.
- Inhalation:** There may be shortness of breath with a burning sensation in the throat. Exposure may cause coughing or wheezing.
- Delayed / immediate effects:** Immediate effects can be expected after short-term exposure.

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

Immediate / special treatment: Eye bathing equipment should be available on the premises.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. foam Use water spray to cool containers. DO NOT USE CO2 powder (powdered dry ice).

5.2. Special hazards arising from the substance or mixture

Exposure hazards: Corrosive. In combustion emits toxic fumes.

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5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Mark out the contaminated area with signs and prevent access to unauthorised personnel. Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Do not create dust.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Transfer to a closable, labelled salvage container for disposal by an appropriate method.

6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of dust in the air.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed.

Suitable packaging: Must only be kept in original packaging.

7.3. Specific end use(s)

Specific end use(s): No data available.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Hazardous ingredients:

SODIUM CHLORITE

Workplace exposure limits:

Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	0.1ppm as ClO ₂	-	-	-

[cont...]

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DNEL/PNEC Values

DNEL / PNEC No data available.

8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: Respiratory protective device with particle filter. Particle filter P2 or P3 Self-contained breathing apparatus must be available in case of emergency.

Hand protection: PVC gloves. Glove thickness: 0.5mm Breakthrough time of the glove material > 1 hour.

Eye protection: Tightly fitting safety goggles. When handling this product, the use of safety glasses with side shields is recommended. The applicable European Standard can be found in EN 166. Ensure eye bath is to hand.

Skin protection: Protective clothing with elasticated cuffs and closed neck.

Environmental: Avoid release to the environment

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Solid

Colour: White

Odour: Barely perceptible odour

Solubility in water: Soluble

9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.

10.4. Conditions to avoid

Conditions to avoid: Heat. Sources of ignition. Hot surfaces. Direct sunlight.

10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids. Reducing agents. Combustible materials.

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes.

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Section 11: Toxicological information

11.1. Information on toxicological effects

Hazardous ingredients:

SODIUM CHLORITE

ORL	RAT	LD50	532	mg/kg
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Relevant hazards for product:

Hazard	Route	Basis
Acute toxicity (ac. tox. 3)	DRM ING	Hazardous: calculated
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated
STOT-repeated exposure	-	Hazardous: calculated

Symptoms / routes of exposure

Skin contact: Blistering may occur. Progressive ulceration will occur if treatment is not immediate.

Eye contact: Corneal burns may occur. May cause permanent damage.

Ingestion: Corrosive burns may appear around the lips. Blood may be vomited. There may be bleeding from the mouth or nose.

Inhalation: There may be shortness of breath with a burning sensation in the throat. Exposure may cause coughing or wheezing.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

Other information: Not applicable.

Section 12: Ecological information

12.1. Toxicity

Hazardous ingredients:

SODIUM CHLORITE

Algae	72H IC50	1.7	mg/l
Daphnia magna	48H EC50	>1	mg/l
FISH	96H LC50	>500	mg/l

12.2. Persistence and degradability

Persistence and degradability: Not applicable.

12.3. Bioaccumulative potential

Bioaccumulative potential: Slightly bioaccumulable.

12.4. Mobility in soil

Mobility: No data available.

[cont...]

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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: Negligible ecotoxicity.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

14.1. UN number

UN number: UN3085

14.2. UN proper shipping name

Shipping name: OXIDIZING SOLID, CORROSIVE, N.O.S.
(SODIUM CHLORITE)

14.3. Transport hazard class(es)

Transport class: 5.1 (8)

14.4. Packing group

Packing group: II

14.5. Environmental hazards

Environmentally hazardous: Yes

Marine pollutant: No

14.6. Special precautions for user

Special precautions: No special precautions.

Tunnel code: E

Transport category: 3

Section 15: Regulatory information

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

15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Section 16: Other information

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Other information

Other information: according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and s.3: EUH032: Contact with acids liberates very toxic gas.

H272: May intensify fire; oxidiser.

H301: Toxic if swallowed.

H310+H330: Fatal in contact with skin or if inhaled

H311: Toxic in contact with skin.

H314: Causes severe skin burns and eye damage.

H318: Causes serious eye damage.

H373: May cause damage to organs ([spleen]) through prolonged or repeated exposure ([oral]).

H373: May cause damage to organs through prolonged or repeated exposure.

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.