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

1.1 Product identifier

Product name: CHLORINE TABLETS

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

Cleaning agent. Disinfectant

1.3 Details of the supplier of the safety data sheet

SUPPLIER:

CHEMICAL SOLUTIONS UK
42 Kennel Lane
Fetcham
SURREY
08452500943
sales@chemical-solutions.co.uk

1.4 Emergency telephone number

07904953893

2. Hazards identification

2.1 Classification of the substance or mixture

Classification under CLP Regs.: STOT SE3 H335; Eye Irrit. 2 H319 Aquatic chronic 1, H410; Supplementary: EUH031

2.2 Label elements

Label elements under CLP:

Troclosene sodium

Hazard pictograms: GHS07, GHS09



Signal Word: Warning

Hazard Statements: H319: Causes severe eye irritation. H410: Very toxic to aquatic life with long lasting effects. H335: May cause respiratory irritation. EUH031: Contact with acids liberates toxic gas.

Precautionary statements: PREVENTION: Use only outdoors or in a well-ventilated area. Wear protective gloves, clothing and eye protection. Avoid release into the environment.

RESPONSE: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

STORAGE: Store in a closed container. Store in a dry place.

Dispose of container/contents to a licenced site.

2.3 Other hazards

PBT: this material does not contain any substance identified as a PBT or vPvB substance

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3. Composition/information on ingredients

3.1 Substances

3.2 Mixtures

Hazardous ingredients:

CAS	EINECS	Classification CLP	Conc %w/w
Troclosene sodium			
2893-78-9	220-767-7	Ox. Solid 2 H272; Ac. Tox. 4 H302; Eye irrit.2 H319; STOT SE3 H335; Aquatic ac. H400; Aquatic chron. 1 H410; EUH031	50-90
Adipic acid			
124-04-9	204-673-3	Eye irritant 2 H319	30-60

See section 16 for full text of H statements

4. First aid measures

4.1 Description of first aid measures

Eye contact: Flush with clean water for at least 15 minutes. Seek medical advice.

Skin contact: Remove at once all contaminated clothing. Wash area with soap and water. Seek medical advice if irritation persists.

Ingestion: DO NOT induce vomiting. Give plenty of water to drink and seek immediate medical attention.

Inhalation: Remove from exposure. Get medical attention if any symptoms persist.

4.2 Most important symptoms and effects both acute and delayed

Irritation may not be immediately apparent.

4.3 Indication of any immediate medical attention and special treatment needed

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents:

Product is not flammable although irritating fumes may be given off in the event of fire. Use water spray.

Unsuitable agents:

Do not use CO₂, Dry powder or Halon.

5.2 Special hazards arising from the substance or mixture

Oxides of chlorine and other irritating or toxic fumes may be produced in a fire.

5.3 Advice for firefighters

Wear self-contained breathing apparatus and protective clothing. Containers may be kept cool with water spray. Control water runoff to prevent contamination of water courses.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear appropriate protective clothing and ensure good ventilation.

6.2 Environmental precautions

Do not allow to enter drains or water courses. The appropriate authority should be notified in the case of significant spillage or uncontrolled discharge.

6.3 Methods and material for containment and cleaning up

Sweep and scoop up spillage. Transfer to plastic container for disposal. Do not use vacuum.

6.4 Reference to other sections

See section 8 for protective clothing

See section 7 for safe handling

See section 13 for disposal.

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7. Handling and storage

7.1 Precautions for safe handling

Avoid contact with eyes and skin. Always ensure good ventilation.

7.2 Conditions for safe storage, including any incompatibilities

Store in original container, tightly closed. Keep away from acids.

7.3 Specific end use

See section 1.2.

8. Exposure controls/personal protection

8.1 Control parameters

Substances assigned Workplace Exposure Limits

Name	type	Long term (8hrTWA)	Short term (15mins)
None	WEL		

In case of Chlorine emission observe WEL for Chlorine gas – Long term 0.5ppm; Short term 1ppm

8.2 Exposure controls

Wear impervious rubber or PVC (EN374) gloves and general workwear. Wear eye protection to prevent liquid splashes if likely.

Avoid inhalation of dust. Ensure good ventilation.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance: Tablet

Colour: off white

Odour: Slight chlorine

Solubility: Completely soluble in water.

pH(1 tablet in 1 litre of water): 5.0-6.0

Flash point: N/A

Boiling point/range: N/A

9.2 Other information

No further relevant information.

10. Stability and reactivity

10.1 Reactivity

Reacts with acids to produce chlorine gas. Dangerous reactions possible with alcohols, aldehydes, ketones and ammonia.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Not in normal use (see 10.1).

10.4 Conditions to avoid

Avoid extremes of temperature.

10.5 Incompatible materials

Avoid contact with strong acids, reducing agents and ammonium compounds.

10.6 Hazardous decomposition products

Chlorine, Hydrogen chloride, oxides of chlorine. Thermal decomposition occurs of active ingredient above 250°C

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11. Toxicological information

11.1 Information on toxicological effects.

Eyes: Irritation, redness and watering

Skin: Not irritating to dry skin but causes irritation on wet skin.

Ingestion: Irritation to mouth, throat and mucous membranes.

Inhalation (dust): Coughing, shortness of breath, damage to membranes of nose and throat.

Acute toxicity, Toxic dose LD50 (oral, rat): Sodium dichloroisocyanurate 1823g/kg

12. Ecological information

12.1 Toxicity

Aquatic toxicity: Toxicity of ingredients – Sodium dichloroisocyanurate LC₅₀: 0.13-0.36mg/l (fish, 96hrs.);

EC₅₀ > 1mg/l (Daphnia, 48hrs).

12.2 Persistence and degradability

Will degrade in the environment to chloride salts.

12.3 Bioaccumulative potential

Not expected to bioaccumulate.

12.4 Mobility in soil

Soluble in water.

12.5 Results of PBT and vPvB assessment

Does not contain any ingredients identified as PBT or vPvB substances.

12.6 Other adverse effects

13. Disposal considerations

13.1 Waste treatment methods

Comply with local regulations. Do not allow concentrate to enter water systems. Do not put unused tablets in a waste compactor – risk of incompatible materials.

14. Transport information

14.1 UN Number

Not classified as hazardous for transport.

14.2 UN Proper shipping name

14.3 Transport hazard class(es)

14.4 Packing group

14.5 Environmental hazards

14.6 Special precautions for user

15. Regulatory information

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

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this product.

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16. Other information

This safety data sheet has been prepared according to EU Commission Regulation 453/2010

The information supplied in this document is based on our present state of knowledge and is given in good faith. It is not intended and should not be construed as a specification or guarantee of specific properties. The responsibility remains with the user to comply with all relevant laws, regulations and directives, to make their own assessment of workplace risks and to determine the suitability of the product for a particular use or application.

The hazards information in this data sheet refers to the material as supplied and not to any subsequent dilution or mixture. The full text of the H statements referred to in section 3 are shown below. These classifications apply to the ingredients, in their concentrated form, which contribute to the classification of the product or mixture

H272: May intensify fire: Oxidiser.

H302: Harmful if swallowed.

H319: Causes serious eye irritation

H335: May cause respiratory irritation.

H400: Very toxic to aquatic life.

H411: Toxic to aquatic life with long lasting effects.

EUH031: Contact with acids liberates toxic gas.

Abbreviations and acronyms

ADR	European Agreement concerning the International Carriage of Goods by Road
CAS	Chemical Abstracts Service
CHIP	Chemicals (Hazard Information and Packaging) Regulations – Directives 1999/45/EC and 67/548/EC
CLP	Classification and Labelling of Chemicals – Regulation (EC) No. 1272/2008
CMR	Carcinogenic-mutagenic-toxic for reproduction
EINECS	European Inventory of Existing Commercial Chemical Substances
GHS	Globally Harmonised System of Classification and Labelling of Chemicals
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods Code
LC50	Lethal Concentration, 50%
LD50	Lethal Dose, 50%
OEL	Occupational Exposure Limit
PBT	Persistent, Bioaccumulative, Toxic
vPvB	very Persistent, very Bioaccumulative
RID	Convention concerning International Carriage by Rail
WEL	Workplace Exposure Limit
VOC	Volatile Organic Compound