

Safety Data Sheet  
**Stabilised Chlorine Granules**

**Revision**

DATE SDS REVISED 6<sup>th</sup> June 2005  
Supercedes SDS dated April 2004

SDS Ref: SOL0000  
Revision Number: 4

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING**

**Substance or preparation trade name:** Stabilised Chlorine Granules

**Other names:** Troclosene Sodium Dihydrate, Sodium Dichloroisocyanurate Dihydrate, Dichlor Granules.

**Intended or recommended use of chemical:** For disinfection of pool water.

**Company/undertaking name, address and normal telephone no.:**

Biolab U.K. Limited  
Unit 4 Andoversford Industrial Estate  
Cheltenham, Glos.  
GL54 4LB

Tel: +44 (0)1242 820969

Fax: +44(0)1242 820180

**Emergency telephone no.:** +44 (0)1242 820969

**FOR MEDICAL EMERGENCIES, FIRES, SPILLAGES OR CHEMICAL  
HAZARDS ONLY:  
TEL: 01865 407333**

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

SUBSTANCE	EINECS NO.	CAS NO.	R phrases	Symbol	WEL
Troclosene Sodium, Dihydrate	N/A	51580-86-0	8, 22, 31, 36/37, 50, 53	Xn, Xi, N	WEL

**3. HAZARDS IDENTIFICATION**

Contact with combustible material may cause fire. Harmful if swallowed. Contact with acids liberates toxic gas. Irritating to eyes and respiratory system. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### 4. FIRST AID MEASURES

<b>Inhalation</b>	Remove from exposure, rest and keep warm. In severe cases, or if recovery is not rapid, or complete, seek medical attention.
<b>Skin contact</b>	Wash thoroughly with plenty of water. Remove contaminated clothing and wash before reuse. If large area of skin is damaged or if irritation persists seek medical attention.
<b>Eye contact</b>	Flush immediately with water for at least 15 minutes. If irritation persists seek medical attention.
<b>Ingestion</b>	Wash out mouth with water. <b>DO NOT INDUCE VOMITING.</b> If patient is conscious, give water to drink. Seek immediate medical attention
<b>Note</b>	When seeking medical attention, always show the product label.

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#### 5. FIRE-FIGHTING MEASURES

<b>Suitable extinguishing media:</b>	Water, CO <sub>2</sub> dry chemical powder, or appropriate foam.
<b>Unsuitable extinguishing media:</b>	<b>DO NOT USE AMMONIUM COMPOUNDS.</b>
<b>Special exposure hazards in fire:</b>	The product is not flammable. Thermal decomposition occurs at above 240 °C. This can be extinguished by flooding with water or by isolating the decomposing material to open air and allowing it to be consumed.
<b>Required special protective equipment for fire fighters:</b>	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin or eyes.
<b>Hazardous combustion products are:</b>	Chlorine, Hypochlorous acid, Cyanuric acid.

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#### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions:</b>	Use appropriate personal protective equipment as detailed in section 8.
<b>Methods for cleaning:</b>	Isolate area and warn others. <b>DO NOT</b> introduce water or other liquids to the spillage site. Sweep up and deposit in dry plastic sacks or drums. <b>DO NOT</b> put into bins or skips. Dispose of in accordance with appropriate local regulations.

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## 7. HANDLING AND STORAGE

- Handling:** **DO NOT** breath in dust. Avoid skin and eye contact. (See section 8)
- Storage:** Store in a cool, dry place away from direct sunlight and heat. Keep out of reach of children and avoid storage or contact with: Organic materials, oil, grease, saw dust, reducing agents, Nitrogen containing compounds, Sodium Hypochlorite, Calcium Hypochlorite, other oxidisers, acids and alkalis.
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## 8. EXPOSURE CONTROLS

**Workplace Exposure control limits, and source:** Troclosen sodium dihydrate

Exposure Limits:	8hr TWA		15min STEL		Authority
	ppm	mg/m3	ppm	mg/m3	
Chlorine	0.5	1.5	1	2.9	EH40

- Respiratory protection** Mask in normal conditions. Otherwise use approved respirator with chemical cartridge suitable against chlorine and dusts.
- Hand protection (type of gloves, etc)** Wear suitable chemical resistant gloves.
- Skin Protection** Wear protective clothing.
- Eye protection** Wear chemical splash goggles.
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## 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance:** White crystalline solid, granules
- Odour:** Chlorine
- pH (1% aqueous soln):** 6.0 - 7.0
- Melting point / range:** 240-250 °C (Approx.)
- Flash point:** None
- Bulk density:** 0.95 g/cm<sup>3</sup>
- Solubility in water:** 290 gm/litre @25 °C
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## 10. STABILITY AND REACTIVITY

<b>Conditions to avoid:</b>	Damp or slightly wet conditions also slowly liberate hazardous gasses. (May gradually degenerate to Nitrogen Trichloride)
<b>Stability:</b>	Stable under normal conditions.
<b>Decomposition Products:</b>	Decomposes above 240 °C forming chlorine, nitrogen trichloride, nitrogen oxides, carbon dioxide, cyanates, and carbon monoxides.
<b>Materials to avoid:</b>	Reacts with oxidising and reducing against to liberate hazardous gases.

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## 11. TOXICOLOGICAL INFORMATION

<b>Route of entry:</b>	Inhalation, skin contact and ingestion.
<b>Inhalation:</b>	Irritating to nose mouth throat and lungs
<b>Ingestion:</b>	Irritation and burning to gastrointestinal tract.
<b>Skin &amp; eyes:</b>	Can cause severe irritation and / or burns characterised by redness, swelling and scab.
<b>Toxicity:</b>	Oral LD50 (Rat)            1400 mg/kg            (Slightly Toxic)

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## 12. ECOLOGICAL INFORMATION

<b>Mobility:</b>	Partially soluble in water.
<b>Other adverse effects:</b>	Highly toxic to aquatic life: <b>DO NOT</b> discharge into lakes, ponds or stream. <b>DO NOT</b> discharge into public waters unless in accordance with consent to discharge orders.

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## 13. DISPOSAL CONSIDERATIONS

<b>Disposal Method:</b>	Disposal should be in accordance with all official regulations and carried out via an approved disposal contractor. If material is dry, incineration is recommended.
<b>Empty Containers:</b>	As substance

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#### 14. TRANSPORT INFORMATION

**UN No.:** UN3077

**Proper shipping name (PSN), including any technical name:** Environmentally Hazardous Substance, solid, N. O. S (contains Troclosene Sodium, Dihydrate).

**Class/Division:** 9

**Packing Group (if any):** III

**Hazard ID No.:** 90

**EAC:** 2Z

**IMDG CODE**

**Marine pollutant:** May be considered a marine pollutant.

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#### 15. REGULATORY INFORMATION

**Product Name:** Stabilised Chlorine Granules

**Symbol:** Xn; N

**Indication(s) of danger:** Harmful; Dangerous for the Environment

**Risk phrases:**

R22	Harmful if swallowed.
R31	Contact with acids liberates toxic gas.
R36/37	Irritating to eyes and respiratory system.
R50/53	Very toxic to aquatic organism may cause long-term effects in the aquatic environment.

**Safety phrases**

S1/2	Keep locked up and out of reach of children.
S8	Keep container dry
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S41	In case of fire and/or explosion do not breathe fumes.
S60	This material and/or its container must be disposed of as hazardous waste
S61	Avoid release to the environment. Refer to special instructions/Safety Data Sheet

**Applicable EU provisions and associated UK legislation:** The Chemical (Hazard Information & Packaging) Regulations 2002.

**NOTE:** THIS DATA SHEETS DOES NOT CONSTITUTE A USER'S ASSESSMENT OF WORKPLACE RISK AS REQUIRED BY HSW ACT, COSHH, MANAGEMENT OF HEALTH AND SAFETY AT WORK REGULATIONS, OR OTHER HEALTH AND SAFETY LEGISLATION

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#### 16. OTHER INFORMATION

**Risk Phrases:**

R8	Contact with combustible material may cause fire.
R22	Harmful if swallowed.
R31	Contact with acids liberates toxic gas.
R36/37	Irritating to eyes and respiratory system.
R50-53	Very toxic to aquatic organism may cause long-term effects in the aquatic environment.

**Recommended uses and restrictions:** No further information.

**Further information sources:** No further information

**Sources of key data used to compile Safety Data Sheet:** Approved supply list.  
Approved carriage list. EH40

**Details of changes to last versions:** Section 1 revisited, section 2 revisited, section 3 revisited, section 5 revisited, section 8 revisited, section 14 revisited, section 16 revisited.

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