

SAFETY DATA SHEET

Stabilised Chlorine Granules

Issued: 24/05/2010

Revision No: 5

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

Product name: Stabilised Chlorine Granules
CAS number: 51580-86-0
EINECS number: 220-767-7
Index number: 613-030-00-X
Synonyms: SODIUM DICHLOROISOCYANURATE DIHYDRATE
Company name: Pool Chemical Products
Unit 4,
Daimler Drive,
Cowpen Lane Industrial Estate,
Billingham
TS23 4JD
Tel: 08455 045440
Fax: 01642 562920

Email: sales@poolchemicalproducts.co.uk

2. HAZARDS IDENTIFICATION

Main hazards: 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.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous ingredients: TROCLOSENE SODIUM, DIHYDRATE >99%
EINECS: 220-767-7 CAS: 51580-86-0
[Xn] R22; [-] R31; [Xi] R36/37; [N] R50/53

4. FIRST AID MEASURES (SYMPTOMS)

Skin contact: There may be redness or whiteness of the skin in the area of exposure. Prolonged skin contact may cause dermis destruction with impaired skin regeneration at the site of contact.
Eye contact: There may be irritation and pain.
Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. Blood may be vomited.
Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

4. FIRST AID MEASURES (ACTION)

Skin contact: Immediately flush with water for at least 15 minutes. Remove contaminated clothing. If irritation persists, seek medical advice.
Eye contact: Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.

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- Ingestion:** If patient is conscious drink milk, white of egg or water. Transfer to hospital as soon as possible.
- Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. Seek medical attention if necessary.

5. FIRE-FIGHTING MEASURES

- Extinguishing media:** Carbon dioxide. Water. Do not use powder based on ammonium salt and halogenous extinguishing media. Extinguish with large quantities of water, small amounts aggravate the situation.
- Exposure hazards:** Product is not flammable but may decompose at high temperatures emitting toxic fumes.
- Protection of fire-fighters:** Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions:** Wear protective clothing, gloves and eye protection. Mark out the contaminated area with signs and prevent access to unauthorised personnel.
- Environmental precautions:** Do not discharge into drains or rivers. If product has entered a water course or sewer or has contaminated soil or vegetation notify authorities.
- Clean-up procedures:** Transfer to a closable, labelled salvage container for disposal by an appropriate method. Wash the spillage site with large amounts of water.

7. HANDLING AND STORAGE

- Handling requirements:** Ensure there is sufficient ventilation of the area. Due care must be taken and any damaged packages must be isolated and repaired. Do not produce dust. Do not smoke.
- Storage conditions:** Keep container tightly closed. Store in a cool, dry, well ventilated area. If product is stored with other products, it should be placed in a separate compartment near the exit door, which should be free from obstacles in order to take product away quickly if necessary. Avoid incompatible materials and conditions - see section 10 of SDS.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Workplace exposure limits**

- WEL (8 hr TWA):** 0.5 ppm (1.5 mg/m³)
- Engineering measures:** Ensure there is sufficient ventilation of the area.
- Respiratory protection:** Wear suitable respiratory protective equipment if exposure levels above the OEL is likely.
- Hand protection:** Protective gloves.
- Eye protection:** Safety goggles.
- Skin protection:** Boots made of PVC. Protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

- State:** Solid
- Colour:** White

Odour: Slight chlorine odour.

Solubility in water: 290 g/l in water @ 25°C

Melting point/range°C: 240

Flash point°C: > 150

pH: 6 - 7 (1%)

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions. Product loses less than 1% chlorine after one year at 40°C.

Conditions to avoid: Temperatures above 50 °C. Humidity.

Materials to avoid: Product attacks metals in general. It reacts with water (in small quantities which may moisten product, but great quantities are needed to extinguish a fire). Oxidising agents. Reducing agents. Acids, alkalis, nitrogen products, ammonium salts, urea, amines, quaternary ammonium derivatives, oils, fats and peroxides. **DO NOT MIX WITH ANY OTHER CHEMICALS.**

Haz. decomp. products: It decomposes to give off heat, chlorine, nitrogen trichloride e.t.c with subsequent danger of explosion if nitrogen trichloride level is high enough.

11. TOXICOLOGICAL INFORMATION

Acute toxicity: Chlorine Granules
ORL RAT LD50 735 mg/kg
SKN RBT LD50 2000 mg/kg

Routes of exposure: Refer to section 4 of SDS for routes of exposure and corresponding symptoms. Causes redness of the skin and may cause a strong burning sensation with ulceration eventually. Abdominal pain, nausea and general weakness may occur. Inhalation may produce sore throats, cough or nausea.

12. ECOLOGICAL INFORMATION

Ecotoxicity: Chlorine Granules
FISH BLUEGILLS 96H LC50 0.28 - 2.4 mg/l
FISH RAINBOW TROUT 96H LC50 0.22 - 0.65 mg/l

Mobility: Soluble in water.

Persistence and degradability: The material is subject to hydrolysis. Cyanuric acid produced by hydrolysis is biodegradable.

Bioaccumulative potential: No bioaccumulation potential.

13. DISPOSAL CONSIDERATIONS

Disposal operations: Bulk disposal must be carried out by specialist licensed waste contractors. The UK Environmental Protection (Duty of Care) Regulations (EP) and amendments should be noted. This product and any uncleaned containers must be disposed of as hazardous waste in accordance with the 2005 Hazardous Waste Regulations and amendments.

Disposal of packaging: Dispose of according to local and national regulations.

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

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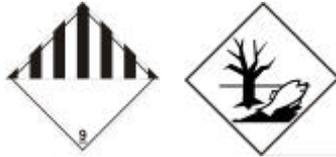
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regarding disposal. This product is subject to The Carriage of Dangerous Goods (Classification, Packaging and Labelling) and Use of Transportable Pressure Receptacles Regulations and their amendments. (United Kingdom)

14. TRANSPORT INFORMATION

ADR / RID

UN no: 3077	ADR Class: 9
Packing group: III	Classification code: M7
Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.	
Labelling: 9+EHS	Hazard ID no: 90



IMDG / IMO

UN no: 3077	Class: 9
Packing group: III	EmS: F-A,S-F
Marine pollutant: .	
Labelling: 9+EHS	

IATA / ICAO

UN no: 3077	Class: 9
Packing group: III	
Packing instructions: 911	
Labelling: 9+EHS	

15. REGULATORY INFORMATION

Hazard symbols: 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 organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases: S8: Keep container dry.

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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 its container must be disposed of as hazardous waste.

S61: Avoid release to the environment. Refer to special instructions / safety data sheets.

Haz. ingredients (label): TROCLOSENE SODIUM, DIHYDRATE

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

Risk phrases used in s.3: 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 organisms, may cause long-term adverse effects in the aquatic environment.

Legal disclaimer: The information contained in this SDS does not constitute a risk assessment, and should not replace the user's own assessment of risks as required by other health and safety legislation. This advice is given by Biochemica UK Limited who accept no legal liability for it except otherwise provided by law. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.