



SAFETY DATA SHEET

STABILISED CHLORINE GRANULES - DICHLOR

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Issued: 23/05/06

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

Product name: STABILISED CHLORINE GRANULES - DICHLOR

CAS number: 51580-86-0

EINECS number: 613-030-01-7

Product code: C980

Synonyms: SODIUM DICHLOROISOCYANURATE DIHYDRATE
TROCLOSENE SODIUM, DIHYDRATE
SODIUM TRICHLORO-S-TRIAZINETRIONE DIHYDRATE

Use / description of product: Granular stabilised chlorine sanitiser for use in swimming pools and spa baths. Providing 56% available chlorine.

Company name: Isell Ltd
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Falmouth
Cornwall
TR11 4RX
Tel: 01326 371482
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2. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous ingredients: TROCLOSENE SODIUM, DIHYDRATE >90%
EINECS: 220-767-7 CAS: 51580-86-0
[Xn] R22; [-] R31; [Xi] R36/37; [N] R50/53

3. 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.

4. FIRST AID MEASURES (SYMPTOMS)

Skin contact: There may be irritation and redness at the site of contact.
Eye contact: There will be severe pain, redness and irritation.
Ingestion: There will be nausea and vomiting, occasionally with abdominal pain.
Inhalation: Mild poisoning causes a cough, irritation of the throat and shortness of breath. Congestion of the lungs may occur causing severe shortness of breath.

4. FIRST AID MEASURES (ACTION)

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.
Eye contact: Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.

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Ingestion: Do not induce vomiting. If conscious, drink plenty of water and seek medical advice immediately.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. If unconscious, check for breathing and apply artificial respiration if necessary. If breathing becomes bubbly, have the casualty sit and provide oxygen if available.

5. FIRE-FIGHTING MEASURES

Extinguishing media: Drench with large amount of water, do NOT use small amount of water. Dry chemical powders containing ammonium compounds should NOT be used.

Exposure hazards: Decomposes at 240 -250°C generating harmful gases.

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

Environmental precautions: Do not discharge into drains or rivers. Alert the neighbourhood to the presence of fumes or gas.

Clean-up procedures: Do not allow to enter surface water courses. The creation and inhalation of dust must be avoided. Do not use equipment in clean-up procedure which may produce sparks. Sweep up spilt material into suitable containers for waste recovery or waste disposal. Do not use sawdust or any materials which may be oxidised.

7. HANDLING AND STORAGE

Handling requirements: Ensure there is sufficient ventilation of the area. Avoid direct contact with the substance. Avoid the formation or spread of dust in the air. Smoking is forbidden. Use non-sparking tools.

Storage conditions: Store away from Calcium or Sodium Hypochlorite. Store away from acids and compounds containing ammonia. Store in cool, dry, well ventilated area. Avoid incompatible materials and conditions - see section 10 of SDS. Keep container tightly closed. Keep away from flammable and combustible materials.

Suitable packaging: Containers must be clean and free from organic residues.

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

WEL (8 hr exposure limit): 3 mg/m³ Chlorine gas

WEL (15 min exposure limit): 1.5 mg/m³ Cl gas

Engineering measures: Ensure there is sufficient local exhaust ventilation.

Respiratory protection: Dust mask recommended.

Hand protection: Protective gloves.

Eye protection: Safety goggles or face-shield. Ensure eye bath is to hand.

Skin protection: Wear appropriate clothing to prevent repeated or prolonged skin contact. Ensure safety shower is to hand.

9. PHYSICAL AND CHEMICAL PROPERTIES

State: Granules

Colour: White

Odour: Strong chlorine

Solubility in water: 290 g/l in water

Melting point/range°C: 240

Flash point°C: >150

pH: 7.23 (0.1% solution)

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

Conditions to avoid: Heat. Flames. Moist air.

Materials to avoid: Nitrogen compounds. Calcium or Sodium Hypochlorite. Acids. Reducing agents. Organic materials. Ammonia compounds. Small amounts of water may cause an oxidising reaction resulting in the release of Nitrogen Trichloride.

Haz. decomp. products: In contact with acid, Chlorine gas will be evolved.

11. TOXICOLOGICAL INFORMATION

Acute toxicity: DICHLOR

ORL RAT LD50 735 mg/kg

SKN RBT LD50 >2 g/kg

Chronic toxicity: Exposure by inhalation, skin and eye contact must be avoided. Exposure by ingestion must be avoided.

Routes of exposure: Irritation of the eyes and mucous membranes.

12. ECOLOGICAL INFORMATION

Ecotoxicity: DICHLOR

FISH 96H LC50 0.22 mg/l

Mobility: Decomposes slowly in water.

Persistence and degradability: No data available.

Bioaccumulative potential: No data available.

Other adverse effects: Very toxic to aquatic organisms.

13. DISPOSAL CONSIDERATIONS

Disposal operations: Do not discharge concentrated material into a sewer. Waste is classed as special waste by the Hazardous Waste Regulations 2005 and must be disposed of by a licensed waste disposal contractor.

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Do not mix with Sodium or Calcium Hypochlorite. Shovel into clean closeable container.

Ensure chlorine level of liquid discharges are within Water Authority consent limit.

Disposal of packaging: All residues must be removed from packaging prior to disposal as controlled waste.

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

14. TRANSPORT INFORMATION**ADR / RID**

Shipping name: Not subject to ADR Regulations

IMDG / IMO**IATA / ICAO****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: S2: Keep out of the reach of children.

S7: Keep container tightly closed.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S29: Do not empty into drains.

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

S64: If swallowed, rinse mouth with water (only if the person is conscious).

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

Other information: Refer to the Manual Handling Operations Regulations 1992.

Store in accordance with HSE Guidance Note CS17.

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Read in conjunction with the Technical Data sheet concerning use of the product.

Supplied packages include 0.5, 0.8, 1, 1.3, 5, 10, 12.5, 15, 25, 50 litre

polyethylene/polypropylene jars, buckets and kegs. Also 25 kilo polypropylene sacks, 45 and 50 kilo fibreboard kegs.

Risk phrases used in s.2: R22: Harmful if swallowed.

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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.