

**SAFETY DATA SHEET**  
STABILISED CHLORINE GRANULES

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Issued: 12/02/2008  
Revision No: 2

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

**Product name:** STABILISED CHLORINE GRANULES  
**CAS number:** 51580-86-0  
**Synonyms:** SODIUM DICHLOROISOCYANURIC ACID  
**Company name:** Howlett Associates Water Treatment Ltd  
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Worcester Park  
Surrey  
KT4 7JZ  
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**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.

**Workplace exposure limit:** This substance does not have a workplace exposure limit.

**PBT:** This substance is not identified as a PBT substance.

**Directive 1999/45/EC:** This preparation meets the criteria for classification as dangerous in accordance with Directive 1999/45/EC.

**3. 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

**4. 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:** Do not induce vomiting. If conscious, give half a litre of water to drink immediately. 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.

[cont...]

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**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 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. Transfer to hospital as soon as possible.

### 5. FIRE-FIGHTING MEASURES

**Extinguishing media:** Carbon dioxide. Alcohol or polymer foam. Dry chemical powder.

**Exposure hazards:** In combustion emits 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:** Mark out the contaminated area with signs and prevent access to unauthorised personnel. Do not create dust.

**Environmental precautions:** Do not discharge into drains or rivers. Contain the spillage using bunding.

**Clean-up procedures:** Mix with sand or vermiculite. Wash the spillage site with large amounts of water.

### 7. HANDLING AND STORAGE

**Handling requirements:** Ensure there is sufficient ventilation of the area. Avoid direct contact with the substance.

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

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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

**Respiratory protection:** Respiratory protection with suitable filter that also fully encloses and protects the eyes.

**Hand protection:** Protective gloves.

**Eye protection:** Safety goggles.

**Skin protection:** Protective clothing.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**State:** Granules

**Colour:** White

**Solubility in water:** Soluble

**Relative density:** 0.95 g/cm<sup>3</sup>

### 10. STABILITY AND REACTIVITY

**Stability:** Stable under normal conditions.

**Materials to avoid:** Acids. Bases.

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**Haz. decomp. products:** Contact with acids liberates toxic gas.

**11. TOXICOLOGICAL INFORMATION**

**Acute effects:** Harmful if swallowed. Irritating to eyes and respiratory system.

**11. TOXICOLOGICAL INFORMATION (SYMPTOMS)**

**Skin contact:** There may be irritation and redness at the site of contact.

**Eye contact:** There may be irritation and redness. There may be pain and redness. There may be severe pain.

**Ingestion:** It is unlikely that this substance will be swallowed due to its physical properties.

**Inhalation:** Exposure may cause coughing or wheezing. There may be congestion of the lungs causing severe shortness of breath. There may be loss of consciousness. Convulsions may occur.

**12. ECOLOGICAL INFORMATION**

**Mobility:** Soluble in water.

**Other adverse effects:** Harmful to aquatic organisms.

**PBT identification:** This substance is not identified as a PBT substance.

**13. DISPOSAL CONSIDERATIONS**

**Disposal operations:** Disposal should be carried out by licenced contractors.

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

**14. TRANSPORT INFORMATION**

**ADR / RID**

**UN no:** 3077

**ADR Class:** 9

**Shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

**Labelling:** 9

**Hazard ID no:** 90



**IMDG / IMO**

**UN no:** 3077

**Class:** 9

**Packing group:** III

**EmS:** NONE

**Marine pollutant:** .

**Labelling:** 9

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STABILISED CHLORINE GRANULES**IATA / ICAO**

<b>UN no:</b> 3077	<b>Class:</b> 9
<b>Packing group:</b> III	<b>Packing instructions:</b> 911
<b>Labelling:</b> 9	

**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.  
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 its container must be disposed of as hazardous waste.  
S61: Avoid release to the environment. Refer to special instructions / safety data sheets.

**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:** This safety data sheet is prepared in accordance with Regulation (EC) No 1907/2006.

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

**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.

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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.