SAFETY DATA SHEET

CHLORINE SHOCK GRANULES

Compilation date: 13/10/2011

Revision No: 3

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: CHLORINE SHOCK GRANULES

CAS number: 7778-54-3

EINECS number: 231-908-7

Index number: 017-012-00-7

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of substance / mixture: Swimming pool treatment.

1.3. Details of the supplier of the safety data sheet

Company name: Howard's Hydrocare Ltd
Units 1 & 2, Hillgrove Business Park
Nazeing Road
Nazeing
Essex
EN9 2HB

Tel: 01992 893389

Fax: 01992 893009

Email: Roy@howardshydrocare.com

1.4. Emergency telephone number

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CHIP: O: R8; Xn: R22; -: R31; C: R34; N: R50

Classification under CLP: Acute Tox. 4: H302; Aquatic Acute 1: H400; Ox. Sol. 2: H272; Skin Corr. 1B: H314

Most important adverse effects: Contact with combustible material may cause fire. Harmful if swallowed. Contact with acids liberates toxic gas. Causes burns. Very toxic to aquatic organisms.

2.2. Label elements

Label elements under CLP:

Hazard statements: H272: May intensify fire; oxidiser.
H302: Harmful if swallowed.
H314: Causes severe skin burns and eye damage.
H400: Very toxic to aquatic life.

Signal words: Danger

Hazard pictograms: GHS03: Flame over circle
GHS05: Corrosion
GHS09: Environmental

[cont...]

Precautionary statements: P221: Take any precaution to avoid mixing with combustibles.
P352: Wash with plenty of soap and water.
P260: Do not breathe dust.
P262: Do not get in eyes, on skin, or on clothing.
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P301+310: IF SWALLOWED: Immediately call a POISON CENTER or doctor.
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321: Specific treatment (see information on this label).
P330: Rinse mouth.
P370+378: In case of fire: Use Carbon dioxide. Dry chemical powder. Alcohol resistant foam for extinction.
P391: Collect spillage.
P405: Store locked up.
P501: Dispose of contents/container to an approved waste facility.

Label elements under CHIP:

Hazard symbols: Oxidising.
Corrosive.
Dangerous for the environment.

Risk phrases: R8: Contact with combustible material may cause fire.
R22: Harmful if swallowed.
R31: Contact with acids liberates toxic gas.
R34: Causes burns.
R50: Very toxic to aquatic organisms.

Safety phrases: S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39: Wear suitable protective clothing, gloves and eye / face protection.
S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S61: Avoid release to the environment. Refer to special instructions / safety data sheets.

Precautionary phrases: Warning! Do not use with other products. May release dangerous gases (chlorine).

[cont...]

2.3. Other hazards

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

Section 3: Composition/information on ingredients

3.1. Substances

Chemical identity: CALCIUM HYPOCHLORITE

CAS number: 7778-54-3

EINECS number: 231-908-7

Section 4: First aid measures

4.1. Description of 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. Give 1 cup of water to drink every 10 minutes. 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.

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.

4.2. Most important symptoms and effects, both acute and delayed

Skin contact: There may be irritation and redness at the site of contact. Severe burns may occur.

Eye contact: There may be irritation and redness. Corneal burns may occur.

Ingestion: Nausea and stomach pain may occur. There may be vomiting and diarrhoea. Severe poisoning can cause shock, unconsciousness and convulsions. The casualty may become blue around the mouth. The urine may become reddish due to blood and be painful to pass. Damage to liver and kidneys may develop later.

Inhalation: There may be congestion of the lungs causing severe shortness of breath. Absorption through the lungs can occur causing symptoms similar to those of ingestion.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

4.3. Indication of any immediate medical attention and special treatment needed

Immediate / special treatment: Eye bathing equipment should be available on the premises.

Section 5: Fire-fighting measures

[cont...]

5.1. Extinguishing media

Extinguishing media: Carbon dioxide. Dry chemical powder. Alcohol resistant foam.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: In combustion emits toxic fumes.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Refer to section 8 of SDS for personal protection details.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Transfer to a suitable container. Wet solid with water to produce a slurry. Wash down the drain with large amounts of water.

6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

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

7.2. Conditions for safe storage, including any incompatibilities

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

7.3. Specific end use(s)

Specific end use(s): No data available.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limits: No data available.

8.1. DNEL/PNEC Values

DNEL / PNEC No data available.

8.2. Exposure controls

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

Respiratory protection: Dust respirator.

Hand protection: Protective gloves.

[cont...]

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

Skin protection: Protective clothing. PVC apron covering the tops of the boots. Ensure safety shower is to hand.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Granules

Colour: Off-white

Odour: Chlorine Like

Oxidising: Oxidising (by EC criteria)

Relative density: 0.9g/cm3 **pH:** 10.5 - 11.5

9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.

10.4. Conditions to avoid

Conditions to avoid: Temperatures above 54 Deg C Direct sunlight. Moist air. Humidity.

10.5. Incompatible materials

Materials to avoid: Organic materials.

10.6. Hazardous decomposition products

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

Section 11: Toxicological information

11.1. Information on toxicological effects

Toxicity values:

Route	Species	Test	Value	Units
ORL	RAT	LD50	850	mg/kg

[cont...]

Hazardous ingredients:

CALCIUM HYPOCHLORITE

ORL	RAT	LD50	850	mg/kg

Relevant hazards for substance:

Hazard	Route	Basis
Acute toxicity (ac. tox. 4)	ING	Based on test data
Skin corrosion/irritation	DRM	Based on test data
Serious eye damage/irritation	OPT	Based on test data

Symptoms / routes of exposure

Skin contact: There may be irritation and redness at the site of contact. Severe burns may occur.

Eye contact: There may be irritation and redness. Corneal burns may occur.

Ingestion: Nausea and stomach pain may occur. There may be vomiting and diarrhoea. Severe poisoning can cause shock, unconsciousness and convulsions. The casualty may become blue around the mouth. The urine may become reddish due to blood and be painful to pass. Damage to liver and kidneys may develop later.

Inhalation: There may be congestion of the lungs causing severe shortness of breath. Absorption through the lungs can occur causing symptoms similar to those of ingestion.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values:

Species	Test	Value	Units
Atlanic Silverside Fish	96H LC50	0.15	mg/l

12.2. Persistence and degradability

Persistence and degradability: Biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential: No bioaccumulation potential.

12.4. Mobility in soil

Mobility: Soluble in water.

12.5. Results of PBT and vPvB assessment

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

12.6. Other adverse effects

Other adverse effects: Toxic to aquatic organisms.

[cont...]

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Disposal should be carried out by licenced contractors. Do not allow entry to drains or waterways.

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

Section 14: Transport information

14.1. UN number

UN number: UN1748

14.2. UN proper shipping name

Shipping name: CALCIUM HYPOCHLORITE, DRY

14.3. Transport hazard class(es)

Transport class: 5.1

14.4. Packing group

Packing group: II

14.5. Environmental hazards

Environmentally hazardous: Yes **Marine pollutant:** No

14.6. Special precautions for user

Special precautions: No special precautions.

Tunnel code: E

Transport category: 2

Section 15: Regulatory information

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

Specific regulations: EU DIRECTIVES

Regulation (EC) No 1907/2006 the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH),

15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Section 16: Other information

Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

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

[cont...]

Phrases used in s.2 and 3: H272: May intensify fire; oxidiser.
H302: Harmful if swallowed.
H314: Causes severe skin burns and eye damage.
H400: Very toxic to aquatic life.
R8: Contact with combustible material may cause fire.
R22: Harmful if swallowed.
R31: Contact with acids liberates toxic gas.
R34: Causes burns.
R50: Very toxic to aquatic organisms.

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.