

REVISION DATE: 1st October 2007



## SAFETY DATA SHEET

### HTH Granules

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

**PRODUCT NAME** HTH Granules  
**SYNONYMS, TRADE NAMES** Calcium Hypochlorite, , Supershock Granules, , Fi Clor S/Fast, , Briswim S/Shock, .  
**SUPPLIER** UNIVAR LTD  
 46 Peckover Street  
 BRADFORD  
 West Yorkshire  
 United Kingdom  
 BD1 5BD  
 Tel: +44 1274 377000  
 Fax: +44 1274 377001  
 sds@univareurope.com  
**SDS No.** 015  
**Emergency Contact Number (Office Hours)** +441274 377070

#### 2 HAZARDS IDENTIFICATION

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

**CLASSIFICATION** Xn;R22. C;R34. O;R8. N;R50. R31.

#### 3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
CALCIUM HYPOCHLORITE	231-908-7	7778-54-3	50-100%	O;R8 C;R34 Xn;R22 R31 N;R50

The Full Text for all R-Phrases are Displayed in Section 16

#### 4 FIRST-AID MEASURES

##### INHALATION

Move into fresh air and keep at rest. Get medical attention.

##### INGESTION

Provide rest, warmth and fresh air. Immediately rinse mouth and drink plenty of water (200-300 ml). Get medical attention.

##### SKIN CONTACT

Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention immediately.

##### EYE CONTACT

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention immediately. Continue to rinse.

#### 5 FIRE-FIGHTING MEASURES

##### EXTINGUISHING MEDIA

Water. Carbon dioxide (CO<sub>2</sub>).

##### SPECIFIC HAZARDS

Chlorine.

##### PROTECTIVE MEASURES IN FIRE

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

REVISION DATE: 1st October 2007

## HTH Granules

### 6 ACCIDENTAL RELEASE MEASURES

#### PERSONAL PRECAUTIONS

Follow precautions for safe handling described in this safety data sheet. Avoid contact with skin and eyes.

#### ENVIRONMENTAL PRECAUTIONS

Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

#### SPILL CLEAN UP METHODS

Remove spillage with vacuum cleaner. If not possible, collect spillage with shovel, broom or the like. Flush contaminated area with plenty of water. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.

### 7 HANDLING AND STORAGE

#### USAGE PRECAUTIONS

Read and follow manufacturer's recommendations. Avoid spilling, skin and eye contact. Provide good ventilation.

#### STORAGE PRECAUTIONS

Keep containers tightly closed. Keep in original container. Suitable containers: polyethylene. Plastic lined steel drum.

#### STORAGE CLASS

Oxidiser storage.

### 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

#### PROTECTIVE EQUIPMENT



#### RESPIRATORY EQUIPMENT

If ventilation is insufficient, suitable respiratory protection must be provided.

#### HAND PROTECTION

PVC gloves are recommended.

#### EYE PROTECTION

Goggles/face shield are recommended.

#### OTHER PROTECTION

Wear rubber apron. Wear rubber footwear.

### 9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Granular
COLOUR	White
ODOUR	Chlorine.
SOLUBILITY	Soluble in water
pH-VALUE, DILUTED SOLUTION	10.5 - 11.5 1

### 10 STABILITY AND REACTIVITY

#### STABILITY

Stable under normal temperature conditions and recommended use.

#### CONDITIONS TO AVOID

Avoid heat, flames and other sources of ignition. Avoid excessive heat for prolonged periods of time.

#### MATERIALS TO AVOID

Strong acids. Strong oxidising substances.

REVISION DATE: 1st October 2007

**HTH Granules**

## HAZARDOUS DECOMPOSITION PRODUCTS

Chlorine.

**11 TOXICOLOGICAL INFORMATION**

TOXIC DOSE 1 - LD 50                      850 mg/kg (oral rat)

## INHALATION

Vapours may irritate throat and respiratory system and cause coughing.

## INGESTION

Harmful if swallowed.

## SKIN CONTACT

Irritating to skin. Causes burns.

## EYE CONTACT

May cause severe irritation to eyes. May cause chemical eye burns. Causes burns.

## HEALTH WARNINGS

Severe pulmonary irritant.

## MEDICAL SYMPTOMS

Pulmonary oedema, frothy sputum.

**12 ECOLOGICAL INFORMATION**

LC 50, 96 Hrs, FISH mg/l                      0.088

## MOBILITY

The product is soluble in water.

**13 DISPOSAL CONSIDERATIONS**

## GENERAL INFORMATION

Waste to be treated as controlled waste. Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority.

## DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements.

**14 TRANSPORT INFORMATION**

UK ROAD CLASS	5.1		
PROPER SHIPPING NAME	CALCIUM HYPOCHLORITE, HYDRATED or CALCIUM HYPOCHLORITE, HYDRATED MIXTURE		
UN NO. ROAD	2880	UK ROAD PACK GR.	II
ADR CLASS NO.	5.1	ADR CLASS	Class 5.1: Oxidising substances.
ADR PACK GROUP	II	HAZARD No. (ADR)	50
ADR LABEL NO.	5.1	HAZCHEM CODE	1W
CEFIC TEC(R) NO.	51GO2-I+II+III	RID CLASS NO.	5.1
RID PACK GROUP	II	UN NO. SEA	2880
IMDG CLASS	5.1	IMDG PACK GR.	II
EMS	F-H, S-Q	MFAG	See Guide
MARINE POLLUTANT	No.	UN NO. AIR	2880
AIR CLASS	5.1	AIR PACK GR.	II

REVISION DATE: 1st October 2007

**HTH Granules****15 REGULATORY INFORMATION**

## LABELLING



Corrosive



Oxidising



Dangerous for the environment

## CONTAINS

CALCIUM HYPOCHLORITE

## 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

S1/2	Keep locked up and out of the reach of children.
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 label where possible).
S61	Avoid release to the environment. Refer to special instructions/safety data sheets.

## STATUTORY INSTRUMENTS

Chemicals (Hazard Information and Packaging) Regulations.

## APPROVED CODE OF PRACTICE

Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply.

## GUIDANCE NOTES

CHIP for everyone HSG(108).

**16 OTHER INFORMATION**

REVISION DATE 1st October 2007

REV. NO./REPL. SDS GENERATED 07

SDS NO. 015

## SAFETY DATA SHEET STATUS

Approved.

DATE 1st October 2007

SIGNATURE Jitendra Panchal

## RISK PHRASES IN FULL

R22	Harmful if swallowed.
R31	Contact with acids liberates toxic gas.
R34	Causes burns.
R37	Irritating to respiratory system.
R50	Very toxic to aquatic organisms.
R8	Contact with combustible material may cause fire.