

SAFETY DATA SHEET **HTH Granules**

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

PRODUCT NAME

HTH Granules

SUPPLIER

Univar

Aquarius House

6 Midpoint Business Park

Thornbury Bradford BD3 7AY

+44 1274 267300 +44 1274 267306 sds@univareurope.com

SYNONYMS, TRADE NAMES

Calcium Hypochlorite, , Supershock Granules, , Fi Clor S/Fast, , Briswim S/Shock, ,

Easiflo, , hth® SHOCK,

APPLICATION

Water Treatment, +44 1274 267346

Emergency Contact Number

(Office Hours)

Emergency Contact Number

(Outside Office Hours)

SDS No.

+441865 407333

10602

2 HAZARDS IDENTIFICATION

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

CLASSIFICATION (1999/45)

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

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification (67/548)
CALCIUM CHLORIDE	233-140-8	10043-52-4	1-5%	Xi;R36
Calcium Hydroxide	215-137-3	1305-62-0	5-10%	Xi;R38,R41.
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.

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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 (CO2).

SPECIFIC HAZARDS

Chlorine.

PROTECTIVE MEASURES IN FIRE

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

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

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

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. Store in closed original container at temperatures between 0°C and 30°C.

STORAGE CLASS

Oxidiser storage.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

PROTECTIVE EQUIPMENT







ENGINEERING MEASURES

Provide adequate ventilation. Observe occupational exposure limits and minimize the risk of inhalation of dust. RESPIRATORY EQUIPMENT

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

HAND PROTECTION

PVC gloves are recommended. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

EYE PROTECTION

Goggles/face shield are recommended.

OTHER PROTECTION

Wear rubber apron. Wear rubber footwear.

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HYGIENE MEASURES

Wash at the end of each work shift and before eating, smoking and using the toilet. Change work clothing daily if there is any possibility of contamination. When using do not eat, drink or smoke.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

Granular

COLOUR

White

ODOUR

Characteristic

SOLUBILITY

Slightly soluble in water.

pH-VALUE, DILUTED

10.5 - 11.5 1

RELATIVE DENSITY

0.8 - 1.320

SOLUTION

DECOMPOSITION

170 - 180

SOLUBILITY VALUE (g/100g

18

TEMPERATURE (°C)

H2O@20°C)

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. Strong alkalis.

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

ECOTOXICITY

The product contains a substance which is very toxic to aquatic organisms.

LC 50, 96 Hrs, FISH mg/l

0.088

MOBILITY

The product is partly soluble in water. May spread in the aquatic environment.

ACUTE FISH TOXICITY

Very toxic to aquatic organisms.

WATER HAZARD CLASSIFICATION

WGK 2

13 DISPOSAL CONSIDERATIONS

HTH Granules

GENERAL INFORMATION

Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority. Do not puncture or incinerate even when empty. DISPOSAL METHODS

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

14 TRANSPORT INFORMATION





UK ROAD CLASS	5.1
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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 TUNNEL RESTRICTION (E)

CODE

HAZARD No. (ADR) 50 ADR LABEL NO. 5.1

HAZCHEM CODE 1W CEFIC TEC(R) NO. 51GO2-I+II+III

RID PACK GROUP 11 RID CLASS NO. 5.1 IMDG CLASS 5.1 UN NO. SEA 2880 **EMS** F-H, S-Q IMDG PACK GR. Ш AIR CLASS 5.1 UN NO. AIR 2880

AIR PACK GR. 1

15 REGULATORY INFORMATION

LABELLING







Harmful



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.

S29 Do not empty into drains.

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).

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S61

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

EU DIRECTIVES

Dangerous Preparations Directive 1999/45/EC.

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 COMMENTS

NOTE: Lines within the margin indicate significant changes from the previous revision.

ISSUED BY

Univar Ltd

REVISION DATE

06.08.2010

REV. NO./REPL. SDS

01

GENERATED

SDS NO.

10602

SAFETY DATA SHEET STATUS

Approved.

DATE

06.08.2010

SIGNATURE

Jitendra Panchal

RISK PHRASES IN FULL

R34 Causes burns.

R31 Contact with acids liberates toxic gas.

R8 Contact with combustible material may cause fire.

R22 Harmful if swallowed.
R36 Irritating to eyes.
R38 Irritating to skin.

R41 Risk of serious damage to eyes.
R50 Very toxic to aquatic organisms.