Material Safety Data Sheet

HTH Shock

Company Identification and Product Information 1.

Product Name:

HTH Shock

Application

Water treatment, Water disinfectant

Supplier:

Tennants Distribution Ltd

Hazelbottom Road

Cheetham Manchester **M8 0GR**

Telephone: 0161 205 4454

eMail:

sales@pool-chem.co.uk

Website:

www.pool-chem.co.uk

2. Hazard Identification

Hazard description:



C Corrosive



O Oxidising



N Dangerous for the environment

Information concerning to particular hazards to man and environment

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

R 8 Contact with combustible material may cause fire.

R 22 Harmful if swallowed.

R 31 Contact with acids liberates toxic gas.

R 34 Causes burns.

R 50 Very toxic to aquatic organisms.

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

Classification system

The classification is according to the latest editions of the EU-lists, and extended by company and literature data. GHS label elements



Danger

H272 - May intensify fire; oxidiser.



Danger

H314 - Causes severe skin burns and eye damage.



Warning

H400 - Very toxic to aquatic life.



Warning

H302+EUH031 - Harmful if swallowed. Contact with acids liberates toxic gas.

H335+H336 - May cause respiratory irritation. May cause drowsiness or dizziness.

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

Prevention:

P221 Take any precaution to avoid mixing with combustibles.

Response:

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all

contaminated clothing. Rinse skin with water/shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several

minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/physician.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/container in accordance with

local/regional/national/international regulations.

3. Composition Information

Chemical characterization:

CAS No. Description:

7778-54-3 calcium hypochlorite

Identification number(s):

EINECS Number:

231-908-7

Index number:

017-012-00-7

Impurities and stabilising additives:

	CAS:	EINECS:		
calcium carbonate	471-34-1	207-439-9		
calcium chloride	10043-52-4	233-140-8	Xi; R 36	
			Warning: exclamation mark 3.3/2	
calcium dihydroxide	1305-62-0	215-137-3	Xi; R 41	
			Danger: corrosion 3.3/1	
calcium chlorate	10137-74-3	233-378-2		
			Danger: flame over circle 2.13/2	
sodium chloride	7647-14-5	231-598-3		
Chemical characterization Dangerous components:				
	CAS	EINECS		
calcium hypochlorite 50-<100%	7778-54-3	231-908-7	C, Xn, O, N; R 8-22-31-34-50	
			Danger: flame over circle 2.14/2;	
			corrosion 3.2/1B	
			Warning: environment 4.1.A/1;	
and the state of t	10010 50 1	000 440 0	exclamation mark 3.1.0/4	
calcium chloride	10043-52-4	233-140-8	Xi; R 36	-00/
a alaiuma dibudaa sida	1205 00 0	045 407 0	Warning: exclamation mark 3.3/2	<2%
calcium dihydroxide	1305-62-0	215-137-3	Xi; R 41	-20/
calcium chlorate	10137-74-3	233-378-2	Danger: corrosion 3.3/1	<3%
Calcium Chlorate	10137-74-3	233-370-2	Dangari flama ayar airala 2.12/2	-00/
Additional information For the wor	rding of the listed	rick phrases refer	Danger: flame over circle 2.13/2	<2%
radional information for the wor	uning of the listed	ilor piliases lelel	to section to.	

4. First Aid Measures

Take affected persons out into the fresh air. Immediately remove any clothing soiled by the product.		
y.		

5. Fire Fighting Measures

Suitable extinguishing agents

Water spray

For safety reasons unsuitable

Extinguishing powder.

extinguishing agents

Protective equipment:

Mount respiratory protective device.

6. Accidental Release Measures

Person-related safety

Mount respiratory protective device

precautions:

Wear protective equipment.

Keep unprotected persons away.

Measures for environmental

Keep contaminated washing water and dispose of appropriately.

Do not allow product to reach sewage system or any water course.

protection:

Inform respective authorities in case of seepage into water course or sewage

system.

Do not allow to enter sewers/ surface or ground water.

Measures for cleaning/collecting: Use neutralizing agent.

to not allow to enter sewers/ surface or ground we

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

7. Handling and Storage

Handling DO NOT MIX WITH OTHER PRODUCTS

DO NOT DISSOLVE BEFORE USE

Information for safe handling:

Thorough dedusting.

Information about fire -

Storage

Substance/product is oxidizing when dry.

and explosion protection:

Requirements to be met by storerooms and receptacles:

Store only in unopened original receptacles.

Do not store product where the average daily temperature exceeds 35°C. Storage above this temperature may result in rapid decomposition, evolution

of chlorine gas and heat sufficient to ignite combustible products

Information about storage in

Store away from flammable substances.

one common storage facility:

Store away from reducing agents.

Further information about

Do not store together with acids. Keep receptacle tightly sealed.

storage conditions:

8. Exposure Controls

Additional information about design of technical facilities:

No further data; see item 7.

Ingredients with limit values that Not required.

require monitoring at the

workplace:

Additional information:

The lists valid during the making were used as basis.

Personal protective equipment

General protective and

Keep away from foodstuffs, beverages and feed.

hygienic measures

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Respiratory protection:

Use suitable respiratory protective device only when aerosol or mist is

formed.

Use suitable respiratory protective device when high concentrations are

present. Filter P2.

Protection of hands:

Protective gloves.

The glove material has to be impermeable and resistant to the product/ the

substance/ the preparation.

Selection of the glove material on consideration of the penetration times,

rates of diffusion and the degradation

Material of gloves

Chloroprene rubber, CR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has

therefore to be checked prior to the application.

Penetration time of glove

material

The exact break trough time has to be found out by the manufacturer of the

protective gloves and has to be observed.

Eye protection:

Tightly sealed goggles.

Physical and Chemical Properties

General Information

Form:

Granulate

Colour:

Whitish

Odour:

Characteristic

Change in condition

Melting point/Melting range:

undetermined

Boiling point/Boiling range:

undetermined

Flash point:

Not applicable

Flammability (solid, gaseous)

Contact with combustible material may cause fire.

Ignition temperature:

Decomposition temperature:

170 - 180°C

Self-igniting:

Product is not selfigniting.

Danger of explosion:

Product does not present an explosion hazard.

Density at 20°C:

0.8 g/cm3

Solubility in / Miscibility with

Water:

Partly soluble

pH-value (10 g/l) at 20°C:

10.5 / 11.5

Organic solvents: Solids content:

0.0 % 100.0 %

10. Stability and Reactivity

Thermal decomposition / conditions to be avoided: Do not store product where the average daily temperature exceeds 35°C.

Storage above this temperature may result in rapid decomposition, evolution of chlorine gas and heat sufficient to ignite combustible products

Dangerous reactions

Reacts with strong oxidizing agents

Reacts with alcohols, amines, aqueous acids and alkalis

Reacts with flammable substances

NEVER MIX THIS PRODUCT WITH ORGANIC CHLORINE (TRICHLOR or

DICHLOR) WITHIN THE SAME CONTAINER

Dangerous decomposition:

products

Poisonous gases/vapours

11. **Toxicological Information**

Acute toxicity:

LD/LC50 values relevant for classification:

7778-54-3

calcium hypochlorite

Oral LD50

850 mg/kg (rat)

1305-62-0

calcium dihydroxide

Oral LD50

7340 mg/kg (rat)

10043-52-4

calcium chloride

Oral LD50

1000 mg/kg (rat)

Primary irritant effect:

on the skin:

Caustic effect on skin and mucous membranes.

on the eye:

Strong caustic effect.

Sensitization:

No sensitizing effects known.

Additional toxicological

information:

The product shows the following dangers according to the calculation

method of the General EU Classification Guidelines for Preparations as

issued in the latest version.

Harmful Corrosive

Swallowing will lead to a strong caustic effect on mouth and throat and to the

danger of perforation of oesophagus and stomach.

12. **Ecological Information**

Ecotoxical effects:

Acquatic toxicity:

Oral LC50 - 48 hrs

0.11 mg/l (daphnia magna) 0.088 mg/l (bluegill sunfish)

0.16 mg/l (rainbow trout)

Remark:

Very toxic for fish

Oral LD/LC50

LC50 - 96 hrs

> 3474 ppm (bobwhite quail)> 5000 ppm (mallard duck)

General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for

water.

Do not allow product to reach ground water, water course or sewage system. Must not reach sewage water or drainage ditch undiluted or un-neutralized. Danger to drinking water if even small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Very toxic for aquatic organisms

13. Disposal Considerations

Product:

Recommendation

Must be specially treated adhering to official regulations.

Must not be disposed together with household garbage. Do not allow product

to reach sewage system.

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

Recommended cleansing agents: Water, if necessary together with cleansing agents.

14. Transportation Information

Land transport ADR/RID (cross-border)



ADR/RID class:

5.1 (O2) Oxidising substances.

Danger code (Kemler):

50

UN-Number:

2880

Packaging group:

11

Hazard label

5.1

Special marking:

Cumbal /fish and trac

Description of goods:

Symbol (fish and tree)
2880 CALCIUM HYPOCHLORITE, HYDRATED MIXTURE

Limited quantities (LQ)

LQ11

Maritime transport IMDG:



IMDG Class:

5.1

UN Number:

2880

Label

5.1

Packaging group:

11

EMS Number:

F-H,S-Q

Marine pollutant:

Yes

Symbol (fish and tree)

Proper shipping name:

CALCIUM HYPOCHLORITE, HYDRATED MIXTURE

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class:

5.1

UN/ID Number:

2880

Label

5.1

Packaging group:

11

Proper shipping name:

CALCIUM HYPOCHLORITE, HYDRATED MIXTURE

UN "Model Regulation":

UN2880, CALCIUM HYPOCHLORITE, HYDRATED MIXTURE, 5.1, II

15. Regulatory Information

Labelling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials

BPD labelling

- Best before : see date on packaging

- Dispose of this material and its container to hazardous or special waste

collection point.

- Providing this container when empty is thoroughly rinsed out in the pool, it

may be disposed of via the recycling scheme

Code letter and hazard designation of product:







C Corrosive

O Oxidising

N 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: 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 the label where possible).

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

data sheets.

Special labelling of certain

preparations:

Warning! Do not use together with other products. May release dangerous

gases (chlorine).

National regulations

Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for

water.

16. Other Information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features

and shall not establish a legally valid contractual relationship.

Relevant R-phrases

R22 Harmful if swallowed.

R31 Contact with acids liberates toxic gas.

R34 Causes burns. R36 Irritating to eyes.

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

R8 Contact with combustible material may cause fire.

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer

(Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication; however no guarantee is made to its accuracy. The information given is prepared only as guidance for safe handling, use, processing, storage, transportation, disposal and release and should not be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material when used in combination with any other materials or in any process, unless specified in this Safety Data Sheet.

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