

**HTH Calcium Hypochlorite Easiflo Tablets**

**1. Identification of the substance/preparation and of the company/undertaking**

**1.1 Product Identifier**

Trade Name: HTH Calcium Hypochlorite Easiflo Tablets

**1.2 Relevant Identified uses of the substance or mixture and uses advised against**

Uses: Water Treatment Biocide

**1.3 Details of the supplier of the safety data sheet**

Company: Complete Pool Controls Ltd  
Unit 2, The Park  
Stoke Orchard  
Bishops Cleeve  
Gloucestershire  
GL52 7RS

Telephone: +44 (0) 8712 229081

Fax: +44 (0) 8712 229083

E-mail: [sales@cpc-chemicals.co.uk](mailto:sales@cpc-chemicals.co.uk)

**1.4 Emergency Telephone**

Tel: +44 (0) 8712 229081 (office hours) +44 (0) 371 2229084 ( outside of office hours)

**2. Hazard Identification**

**2.1 Classification of the substance or mixture**

Classification according to Regulation (EC) No 1272/2008

Hazard Class	Hazard Statements
Ox. Sol. 2	H272
Acute Tox. 4 *	H302
Skin Corr. 1B	H314
Eye Dam.1	H318
STOT SE 3	H335
Aquatic Acute 1	H400

For the full text of the H statements mentioned in this section see Section 16.

**2.2 Label elements**

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms:				
	GHS03:	GHS05:	GHS07:	GHS09:

Signal word: Danger

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  
H335: May cause respiratory irritation.

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

Precautionary statements: P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking  
P220 : Keep away from combustible materials.  
P221 : Take any precaution to avoid mixing with combustibles.

## 2. Hazard Identification

### Precautionary statements:

- P260: Do not breathe vapour/spray.  
 P264: Wash contaminated skin thoroughly after handling.  
 P270: Do not eat, drink or smoke when using this product.  
 P273: Avoid release to the environment  
 P280: Wear protective gloves/protective clothing/eye protection/face protection  
 P301+330 + P310 IF SWALLOWED: rinse mouth. Immediately call a poison centre  
 P303+361+353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water  
 P303+361+353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water  
 P305+351+338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing  
 P403+P233: Store in a well-ventilated place. Keep container tightly closed.  
 P5001 Dispose of contents/container in accordance with national regulations.

**Additional Labelling:** EUH031 Contact with acids liberates toxic gases

**Contains:** CALCIUM HYPOCHLORITE, CALCIUM HYDROXIDE, Calcium chlorate

**Supplementary Statement:** P301+P330+P331: : IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

**2.3 Other Hazards** No other information is available

## 3. Composition/information on ingredients

### 3.2 Mixture

CAS-No.	EC No	Index-No.	%	CLP Phrases
<i>Calcium Hypochlorite</i>				
7778-54-3	231-908-7	-	60 - 100%	Ox. Sol. 2 - H272 : Aquatic Acute 1 - H400 : Eye Dam. 1 - H318 STOT SE 3 - H335 : Skin Corr. 1B - H314 : Acute Tox. 4 - H302
<i>Calcium Hydroxide</i>				
1305-62-0	215-137-3	01-2119475151-4	1 - 5%	Skin Irrit. 2 - H315 : Eye Dam. 1 - H318 : STOT SE 3 - H335
<i>Calcium Chloride</i>				
10043-52-4	233-140-8	012119494219-28	1 - 5%	Eye Irrit. 2 - H319
<i>Calcium chlorate</i>				
10137-74-3	233-378-2	-	1 - 5%	Ox. Sol. 2 - H272

## 4. First Aid measures

### 4.1 Description of first aid measures

- Inhalation:** Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention.
- Ingestion:** Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Rinse mouth thoroughly with water. Give plenty of water to drink. Do not induce vomiting. Get medical attention.

**4. First Aid measures**

**4.1 Description of first aid measures**

Skin contact: Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues.

Eye contact: Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention immediately. Continue to rinse.

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

Inhalation: Irritating to respiratory system.

Ingestion: May cause chemical burns in mouth, oesophagus and stomach. May cause stomach pain or

Skin contact: Skin contact:

Eye contact: Severe irritation, burning and tearing. May cause chemical eye burns.

**4.3 Indication of immediate medical attention and special treatment needed**

Notes for the doctor: Treat symptomatically

**5. Fire fighting measures**

**5.1 Extinguishing media:**

Suitable media: Water. Carbon dioxide (CO2).

Unsuitable media: Fire extinguishing powder

**5.2 Special hazards arising from the substance or mixture**

Specific Hazards: Chlorine. Carbon monoxide (CO). Carbon dioxide (CO2).

Haz. Combustion Products: Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours

**5.3 Advice for fire-fighters**

Special PPE: Fire-fighters should wear full protective clothing and self-contained breathing apparatus (SCBA).

Further Information: Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

**6. Accidental release Measures**

**6.1 Personal precautions, protective equipment and emergency procedures**

Personal Precautions: Follow precautions for safe handling described in this safety data sheet. Avoid inhalation of dust and contact with skin and eyes. Provide adequate ventilation.

**6.2 Environmental precautions**

Environmental precautions: Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

**6.3 Methods and materials for containment and cleaning up**

Cleaning up: Remove spillage with vacuum cleaner. If not possible, collect spillage with shovel, broom or the like. Flush contaminated area with plenty of water. Collect and place in suitable waste disposal containers and seal securely.

**6.4 Reference to other sections**

Other Sections: See Section 1 for emergency contact information  
See Section 7 for information on Personal protective equipment  
See section 13 for waste treatment information

**7. Handling and storage**

**7.1 Precautions for safe handling**

Usage precautions      Avoid spilling, skin and eye contact. Provide adequate ventilation. Avoid generation and spreading of dust. Avoid inhalation of dust.

**7.2 Conditions for safe storage, including any incompatibilities.**

Storage precautions      Store in closed original container at temperatures not exceeding 35°C..  
 Suitable container materials: Polyethylene. Polyethylene-lined mild steel.  
 Store away from the following materials: Reducing agents. Acids.  
 Keep away from flammable and combustible materials.  
 Keep away from food, drink and animal feeding stuffs.

Storage class              Oxidiser storage.

**7.3 Specific end uses**

Specific use(s)              The identified uses for this product are detailed in Section 1.2.

**8. Exposure control/personal protection**

**8.1 Control parameters**

**Occupational exposure limits**

CALCIUM HYDROXIDE

Long-term exposure limit (8-hour TWA): WEL 5 mg/m<sup>3</sup>

WEL = Workplace Exposure Limit

DNEL              Industry - Inhalation; Long term : 5 mg/m<sup>3</sup>  
 Industry - Inhalation; Short term : 10 mg/m<sup>3</sup>  
 Consumer - Inhalation; Long term : 2.5 mg/m<sup>3</sup>  
 Consumer - Inhalation; Short term : 5 mg/m<sup>3</sup>

**8.2 Exposure controls**

**Protective equipment**



Engineering measures      Provide adequate ventilation. Avoid inhalation of dust. Observe any occupational exposure limits for the product or ingredients

Eye/face protection      Wear tight-fitting, chemical splash goggles or face shield.

Hand protection              Use protective gloves. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. Neoprene gloves are recommended. EN 374

Hygiene measures              Provide eyewash station and safety shower. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Change work clothing daily before leaving workplace. When using do not eat, drink or smoke.

Respiratory protection      If ventilation is inadequate, suitable respiratory protection must be worn. Wear a respirator fitted with the following cartridge: Particulate filter, type P2. EN

**9. Physical and chemical properties****9.1 Information on basic physical and chemical properties**

Form:	Pellets
Colour:	White
Odour:	Characteristic
Odour Threshold:	data lacking
pH @ 20°C:	pH (diluted solution): 10.5 - 11.5 1% @ 20 °C
Melting point:	100°C
Initial boiling point and range	Not applicable.
Flash point	Not applicable.
Upper/lower flammability or explosive limit:	Not applicable.
Vapour pressure	Not applicable.
Vapour density	Not applicable.
Relative density	1.3 g/cm <sup>3</sup>
Solubility(ies)	217 g/l water @ 20°C
Decomposition Temperature	170-180°C
Viscosity	Not applicable.
Explosive properties	Data lacking.
Oxidising properties	Data lacking.

**9.2 Other Information** No information required.

**10. Stability and reactivity****10.1 Reactivity**

Reactivity The following materials may react with the product: Acids. Alkalis. Oxidising materials. Alcohols, glycols. Amines.

**10.2 Chemical stability**

Chemical stability Stable under the prescribed storage conditions.

**10.3 Possibility of hazardous reactions**

Hazardous reactions: Contact with acids liberates toxic gas.

**10.4 Conditions to avoid**

Conditions to avoid Avoid heat, flames and other sources of ignition.

**10.5 Incompatible materials**

Materials to avoid Strong acids. Strong oxidising agents. Strong alkalis. Alcohols, glycols. Amines.

**10.6 Hazardous decomposition products**

Haz. Decomp. products: Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours: Chlorine

**11. Toxicological Information**

**11.1 Information on toxicological effects**

Acute toxicity	oral ATE oral (mg/kg)	625.0
Acute toxicity	dermal Notes (dermal LD <sub>50</sub> )	Data lacking.
Acute toxicity	inhalation Notes (inhalation LC <sub>50</sub> )	Data lacking.
Skin corrosion/irritation	Animal data	Data lacking.
Skin sensitisation		Data lacking.
Germ cell mutagenicity	Genotoxicity - in vitro	Data lacking.
Carcinogenicity		Data lacking.
Reproductive toxicity	fertility	Data lacking.
STOT - single exposure		Data lacking.
STOT - repeated exposure		Data lacking.

Inhalation                      May cause respiratory irritation.  
 Ingestion                      Harmful if swallowed. May cause chemical burns in mouth, oesophagus and stomach.  
 Skin contact                      Irritating to skin. Causes burns.  
 Eye contact                      May cause chemical eye burns.

*Calcium Hypochlorite*

Acute toxicity - oral			
ATE	oral	(mg/kg)	500

**12. Ecological Information**

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

**12.1 Toxicity**

Toxicity                              Very toxic to aquatic organisms  
 Ecological information on ingredients.              CALCIUM HYPOCHLORITE  
 Acute aquatic toxicity  
 LE(C)<sub>50</sub>                      0.01 < L(E)C50 ≤ 0.1  
 M factor (Acute)                      10  
 Acute toxicity · LC50, 96 hours, 96 hours: 0.16 mg/l, *Onchorhynchus mykiss* (Rainbow trout)

**12.2 Persistence and degradability**

Degradability                      The product contains only inorganic substances which are not biodegradable.

**12.3 Bioaccumulative potential**

Bioaccumulative potential      No data available on bioaccumulation.

**12.4 Mobility in soil**

Mobility in soil                      No data available

**12.5 Results of PBT and PvB :**

PBT and PvB :                      No data available

**12.6 Other adverse effects**

Other adverse effects              Not known.

**13. Disposal Considerations**

**13.1 Waste treatment methods**

**General information** Waste is classified as hazardous waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Do not puncture or incinerate, even when empty.

**Disposal methods** Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.


**Classification**

Waste Codes in accordance with the European Waste catalogue (EWC) are origin-defined. Since this product is used in several industries, no Waste Code can be provided by the supplier. The Waste Code should be determined in arrangement with your waste disposal partner or the responsible authority

**14. Transport Information**


**14.1 UN Number** 1748

**14.2 UN proper shipping name**  
ADR/RID/IMG/ICAO CALCIUM HYPOCHLORITE MIXTURE, DRY

**14.3 Transport hazard class(es)**  
ADR/RID/IMG/ICAO 5.1 

**14.4 Packaging Group** II

**14.5 Environmental hazards**

Environmentally Hazardous	Yes	
Marine Pollutant	Yes	

**14.6 Special precautions for user**

EmS	
Emergency Action Code	1W
Hazard Identification Number (ADR/RID)	50
Tunnel restriction code	(E)

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**  
No further information available

**15. Regulatory information**

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

National regulations The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).

EU legislation Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).  
Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).  
This product may impact SEVESO storage regulations.

Guidance CHIP for everyone HSG228.  
Safety Data Sheets for Substances and Preparations.  
Approved Classification and Labelling Guide (Sixth edition) L131.

Water hazard classification WGK 2

**15.2 Chemical Safety Assessment**

No data available

**16. Other information**

Full text of H-statements referred to under sections 2 and 3

H272 May intensify fire; oxidiser.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H400 Very toxic to aquatic life.

EUH031 Contact with acids liberates toxic gases

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█ Indicates updated section