



## 2.2 Label Elements:

EC Number: 231-908-7  
Label in accordance with (EC) No. 1272/2008



- Signal Word: Danger
- Symbols: GHS03, GHS05, GHS07, GHS09

### Hazard phrases

- May intensify fire; oxidizer.
- Harmful if swallowed.
- Causes severe skin burns and eye damage.
- Very toxic to aquatic life.
- Contact with acids liberates toxic gas.

### Precautionary Phrases

- Store locked up/Keep out of reach of children.
- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- In case of fire: Do not breathe dust/fume/gas/mist/vapours/spray.
- Dispose of contents/container in accordance with local/regional/national/international regulations.
- Avoid release to the environment.

## 2.3 Other Hazards:

- Marine pollutant

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## 3. Composition/information on ingredients

### 3.1 Substances:

Chemical Name	Concentration	CAS Number	EC Number	R/H Phrases*	Symbols
Calcium Hypochlorite	100%	7778-54-3	231-908-7	H272, H302, H314, H400, EUH031 R8, R22, R31, R34, R50	GHS03, GHS07, GHS05, GHS09 O, C, N

\*See Section 16

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#### 4. First Aid Measures:

##### 4.1 Description of first aid measures

- Inhalation: Move the exposed person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.
- Ingestion: Immediately rinse mouth and provide fresh air. Get medical attention if any discomfort continues. Do not induce vomiting.
- Skin contact: Remove affected person from source of contamination. Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention if any discomfort continues.
- Eye contact: Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues

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

- Causes nausea/vomiting
- Can cause damage to the eyes and skin

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

- Treat symptomatically
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#### Section 5: Fire-fighting measures

##### 5.1 Extinguishing media

- In case of fire: use water for extinction

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

- See Section 10.6

##### 5.3 Advice for firefighters

- Wear protective clothing as per section 8
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#### Section 6: Accidental release measures

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

- Wear protective clothing as per section 8
- Shut off all ignition sources

##### 6.2 Environmental Precautions

- Do not allow to enter public sewers and water courses
- If contamination of drainage systems or water courses is unavoidable, immediately inform appropriate authorities

##### 6.3 Methods and material for containment and cleaning up

- Remove by mechanical means
- Collect as much as possible in clean container for reuse or disposal
- Flush spill area with copious amounts of water

##### 6.4 Reference to other sections

- See Section 7 & 8
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## Section 7: Handling and storage

### 7.1 Precautions for safe handling

- Avoid contact with combustible material
- Avoid breathing dust/fume/gas/mist/vapours/spray.
- Wash thoroughly after handling.
- Ensure adequate ventilation

### 7.2 Conditions for safe storage, including any incompatibilities

- Store away from other materials
- Store in a dry place. Store in a closed container.
- Store in a well-ventilated place. Keep cool.

### 7.3 Specific end use(s)

- No information available.
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## Section 8: Exposure controls/personal protection

### 8.1 Control parameters

Calcium Hypochlorite

- WEL (long term) 1 mg/m<sup>3</sup>

### 8.2 Exposure controls

- Engineering controls should be provided to prevent the need for ventilation

#### Occupational exposure controls

- In case of inadequate ventilation wear respiratory protection.
- Wear rubber gloves
- When handling this substance, eg. sampling, wear goggles giving complete eye protection
- Wear apron or other light protective clothing



Respirator



Goggles



Gloves



Suit

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## Section 9. Physical & Chemical Properties

### 9.1 Information on basic physical and chemical properties

- Odour: chlorine
- Appearance: white, solid, tablets
- pH 12 at 1 % concentration
- Boiling point - not applicable
- Vapour pressure - not applicable
- Vapour density - not known
- Melting point 180 deg C with decomposition
- Water solubility 20 % at 20 °C

- Specific gravity 2.1 g/cm<sup>3</sup>
- Not flammable but will support combustion
- Partition coefficient : n-Octanol/water - not known
- Evaporation rate - not known
- Viscosity - not applicable - Not flammable
- Partition coefficient : n-Octanol/water -3.0
- Evaporation rate - not known
- Viscosity - not applicable

## 9.2 Other information

- Bulk density 1.00 g/cm<sup>3</sup>

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## Section 10. Stability and reactivity

### 10.1 Reactivity

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

### 10.2 Chemical stability

- No decomposition if stored normally.

### 10.3 Possibility of hazardous reactions

- Contact with acids liberates toxic gas.

### 10.4 Conditions to avoid

- Avoid contact with water
- Keep away from heat and sources of ignition

### 10.5 Incompatible materials

- Incompatible with acid
- Nitrogen containing compounds
- Incompatible with oxidizing substances
- Incompatible with organics
- Ammonia
- Incompatible with combustible material

### 10.6 Hazardous Decomposition Products

- Decomposition products include chlorine.
- Decomposition products include oxygen

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## Section 11. Toxicological information

### 11.1 Information on toxicological effects

- LD50 (oral, rat) 850 mg/kg

Inhalation

- Can cause damage to the respiratory system.

Contact with skin

- Can cause damage to the skin.

Contact with eyes

- Can cause damage to the eyes.

Ingestion

- The ingestion of significant quantities may cause damage to digestive system.

Carcinogenicity

- No evidence of carcinogenic effects

Teratogenicity

- No information available

Mutagenicity

- No information available

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## **Section 12. Ecological information**

### **12.1 Toxicity**

- Very toxic to aquatic life with long lasting effects.
- LC50 (fish) 0.15 mg/l (96 hr)

### **12.2 Persistence and degradability**

- No information available

### **12.3 Bioaccumulation Potential**

- No information available

### **12.4 Mobility in soil**

- Marine pollutant

### **12.5 Results of PBT and vPvB assessment**

- Not a PBT according to REACH Annex XIII

### **12.6 Other Adverse Effects**

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## **Section 13. Disposal considerations**

### **13.1 Waste treatment methods**

- Disposal should be in accordance with local, state or national legislation

Classification

- The waste must be identified according to the List of Wastes (2000/532/EC)

**Section 14. Transport information**



Oxidising Agent



Environmentally Hazardous



Corrosive

**14.1 UN Number**

- 3487

**14.2 UN Proper Shipping Name**

- CALCIUM HYPOCHLORITE, HYDRATED, CORROSIVE

**14.3 Transport hazard class(es)**

- 5.1

**14.4 Packing group**

- II

**14.5 Environmental hazards**

- Marine pollutant

**14.6 Special precautions for user**

- See Section 7

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code**

- Not applicable

**Other information**

Road/Rail (ADR/RID)

Proper Shipping Name: CALCIUM HYPOCHLORITE, HYDRATED, CORROSIVE

ADR UN No.: 3487

ADR Hazard Class: 5.1

Tunnel Code: E

ADR Packing Group: II

**Sea (IMDG)**

Proper Shipping Name: CALCIUM HYPOCHLORITE, HYDRATED, CORROSIVE

IMDG UN No.: 3487

IMDG Hazard Class.: 5.1

IMDG Pack Group.: II

**Air (ICAO/IATA)**

Proper Shipping Name: CALCIUM HYPOCHLORITE, HYDRATED, CORROSIVE

ICAO Un No.: 3487

ICAO Hazard Class.: 5.1

ICAO Packing Group.: II

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## 15 Regulatory information

### 15 .1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- Refer to current CPL Regulations
- Refer to current EC Directive 82/501/EEC (the Seveso Directive)
- The List of Wastes (England) Regulations 2005 apply in the UK

### 15 .2 Chemical Safety Assessment

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## 16 Other information

Text of R and S phrase codes used in this safety data sheet:- EUH031: Contact with acids liberates toxic gas.; H272:

May intensify fire; oxidizer.; H302: Harmful if swallowed.; H314: Causes severe skin burns and eye damage.; H400:

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

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