# Vickers Laboratories Ltd - Safety Data Sheet

0146

(in accordance with regulation (EU) 2015/830 and regulation (EC) 1272/2008)

Revision: 1.0

Revision date: Date printed:

31 October 2014 08 August 2019

## **Section 1. Identification**

1.1 Product Identifier 0146

Product Name CALCIUM HYPOCHLORITE BASIC

CAS Number 7778-54-3 REACH Registration No Not applicable

Molecular Formula CaCl<sub>2</sub>O<sub>2</sub> = 142.98

#### 1.2 Relevent identified uses of the substance or mixure & uses advised against

Uses of Material Chemical for industrial and laboratory use. Not suitable for domestic use.

#### 1.3 Supplier Vickers Laboratories Ltd



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UNITED KINGDOM

Phone +44(0)113 2362811 Fax +44(0)113 2362703 Email safety@viclabs.co.uk

**1.4 Emergency Telephone** (08:00-16:30) 0113 2362811

(24hr) 112

(Have this document to hand)

## Section 2. Hazards Identification

#### 2.1 Classification of the substance or mixture

#### Classification according to regulation 1272/2008/EC

Oxidising solid, category 2 (Ox. Sol. 2). Skin corrosion/irritation, category 1B (Skin Corr. 1B). Acute toxicity, category 4 (oral) (Acute Tox. 4 (O)). Hazard to aquatic environment, category 1 (Aquatic Acute 1).

#### 2.2 Label elements

#### Labelling according to regulation 1272/2008/EC

Signal word Danger

Hazard Pictograms









Hazard Statements

May intensify fire; oxidizer. Harmful if swallowed. Causes severe skin burns and eye damage. Very toxic to aquatic life.

**Precautionary Statements** 

Wear protective gloves / protective clothing / eye protection / face protection. Do not breathe dust. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse continuously with water for several minutes.

Remove contact lenses if present and easy to do and continue rinsing.

Supplemental Hazard Information (EU)

Contact with acids liberates toxic gas.

## **Section 3. Composition**

#### 3.1 Substances

Component	CAS No.	EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Calcium Hypochlorite Basic	7778-54-3	231-908-7		>99%	Ox. Sol. 2,Skin Corr. 1B,Acute Tox. 4 (O),Aquatic Acute 1

## Section 4. First Aid

#### 4.1 Description of first aid measures

Eyes Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. OBTAIN MEDICAL

ATTENTION URGENTLY.

Skin Wash off skin thoroughly with water. Remove contaminated clothing immediately and wash before re-use.

OBTAIN MEDICAL ATTENTION.

Inhalation Remove from exposure. If material has reacted with an acid to form, chlorine, seek immediate medical assistance.

Ingestion If conscious give plenty of water to drink. Do not induce vomiting. If unconscious place in the recovery position.

OBTAIN MEDICAL ATTENTION URGENTLY.

Personal protection for first Wear protective gloves / eye protection.

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

No further relevant information available.

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

No further relevant information available.

### **Section 5. Fire Fighting**

#### 5.1 Extinguishing media

Extinguishing Media Consider what other flammable materials are present and act accordingly.

Unsuitable Media Nothing specified.

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

Hazards May evolve toxic fumes if involved in a fire.

### 5.3 Advice for firefighters

Advice for firefighters Consider all other materials in the vicinity.

### Section 6. Accidental Release Measures

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

Personal Protection Use approved personal protective equipment. Evacuate area immediately. Do not allow general use of area until it

is safe to do so. If contact with acid is possible, use full protective clothing and breathing apparatus.

#### 6.2 Environmental precautions

Enviromental Keep material out of sewers, storm drains, surface waters and soil. Notify the Environmental Agency and local

Environmental Health Officer if major spillage occurs.

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

Major Spillage Shovel/sweep up into container for removal Wash area down with copious amounts of water.

Minor Spillage Wash area down with copious amounts of water.

#### 6.4 Reference to other sections

See section 8.2 for information on protective equipment and section 13 for information on disposal.

## Section 7. Storage & Handling

#### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Do not breath vapours. Do not allow to contaminate clothing.

Ensure Local Exhaust Ventilation maintains vapour concentrations below the recommended limits.

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

Well ventilated, cool, dry storage . Large quantities must be stored in vented containers.

#### 7.3 Specific end use(s)

See section 1.2.

## Section 8. Workplace Exposure & Personal Protection

#### 8.1 Control parameters

Component	CAS No	Concentration	Workplace Exposure Limits					
			Long Term (8hr TWA)		Short Term 15min period)			
Calcium Hypochlorite Basic	7778-54-3	>99%	-	-	-	-		

Exposure data source(s) No occupational exposure data currently available.

#### 8.2 Exposure controls

chemical cartridge respirator, or use self contained breathing apparatus.

Hand Protection Use PVC gauntlets.

Skin Protection If skin contact or contamination of clothing is likely, protective clothing must be worn.

Special Hazards No special precautions required.

## Section 9. Physical & Chemical Properties

#### 9.1 Information on basic physical and chemical properties

Appearance Biege powder

Odour Faint odour of chlorine.

pH Not applicable
Boiling Point Not available
Melting Point Not applicable
Flash Point Not applicable
Upper Flammable Limit Not applicable
Lower Flammable Limit Not applicable
Auto Ignition Not applicable

Explosive Properties No.

Oxidising Properties A strong oxidising agent.

Vapour Pressure Not applicable Relative Density Not available Water Solubility Not available

#### 9.2 Other information

No data available.

## Section 10. Stability & Reactivity

10.1 Reactivity No data available.

10.2 Chemical Stability Very slowly decomposes with release of oxygen, this is accelerated by elevated temperatures.

**10.3** Possibility of hazardous

reactions

No data available.

Avoid exposure to heat and strong sunlight. **10.4** Conditions to Avoid

10.5 Incompatable Materials Acids, ammonium salts, methanol, hydrocarbons, copper, nickel, iron and monel metal.

Decomposes to form flammable oxygen and highly toxic chlorine gas. **Hazardous Decomposition** 

## Section 11. Toxicological Information

#### 11.1 Information on toxicological effects

Eyes The solid and solutions will be extremely irritating to eyes and can cause chemical eye burns. Damage can range

from severe irritation and corneal scarring to permanent blindness.

Skin The solid and solutions will cause burns.

LD50 Skin Not available

Ingestion Ingestion will cause severe mouth burns, and if swallowed extensive damage to the oesophagus. Ingestion may

lead to formation of very toxic chlorine gas by reaction with stomach contents.

LD50 Oral 850 mg/kg Rat

Inhalation If material has reacted with acid to form toxic chlorine gas and this has been inhaled there is a serious risk of

brachial an pulmonary oedema. Symptoms may be delayed for 48 hours or more.

LD50 Inhalation Not available TCLo Not available

Carcinogenicity Not considered to be a carcinogen. Not considered to be a mutagen. Mutagenicity

Reproductive Effects None identified.

### Section 12. Ecological

12.1 Toxicity Material will degrade slowly to sodium chloride, sodium chlorate and oxygen. Toxic to aquatic organisms. Very

toxic to fish.

LC50 Algal 0.067 mg/l Daphnia magna (48 hours)

LC50 Crustacea Not available

LC50 Fish 0.057 mg/l Bluegill (Lepomis macrochirus) (96 hours)

12.2 Persistence and No data available.

degradability

12.3 Bioaccumulative potential No data available. Mobility in soil No data available.

Results of PBT & vPvB Assessment not required.

assessment

12.6 Other adverse effects None known at present.

## **Section 13. Disposal Considerations**

#### 13.1 Waste treatment methods

Disposal Methods Dispose of via an authorised waste disposal contractor to an approved waste disposal site, observing all local and

national regulations.

Contaminated Packaging Use a licensed waste disposer.

## **Section 14. Transport Information**

**14.1 UN Number** 2880

**14.2 Proper Shipping Name** Calcium hypochlorite, hydrated.

14.3 Transport classes

UN classification 5.1
Subsidiary hazard(s) None
Transport category 2
ADR Hazard ID 50
Tunnel Restriction Code E

14.4 Packing Group II

OXIDIZING AGENT 5.1

**14.5 Environment hazards** See section 12.

**14.6 Special precautions for** No special precautions required.

user

**14.7 Transport in bulk** Not transported in bulk.

## Section 15. Regulatory Information

## $15.1\ Safety, health\ and\ environment\ regulations\ specific\ for\ subtance/mixture.$

### Classification, Labeling & Packaging of Substances & Mixtures Regulations (1272/2008/CE)

Classification Oxidising solid, category 2; Skin corrosion/irritation, category 1B; Acute toxicity, category 4 (oral); Hazard to

aquatic environment, category 1

Signal word Danger

**Hazard Pictograms** 









Hazard Statements H272, H302, H314, H400

May intensify fire; oxidizer. Harmful if swallowed. Causes severe skin burns and eye damage. Very toxic to

aquatic life.

Precautionary Statements P280, P260, P301+P330+P331, P303+P361+P353, P304+P340, P305+P351+P338

Wear protective gloves / protective clothing / eye protection / face protection. Do not breathe dust. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse continuously with water for several minutes.

Remove contact lenses if present and easy to do and continue rinsing.

Supplemental Hazard Information (EU)

EUH031

Contact with acids liberates toxic gas.

#### 15.2 Chemical safety assessment

Assessment not required.

## **Section 16. Other Information**

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment. See sections 11 for toxicological information and section 12 for ecological information.

Revision number: 1.0

Revision date: 31 October 2014

Reviewed by chemist: 31 October 2014

Printed date: 08 August 2019

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