Vickers Laboratories Ltd - Safety Data Sheet

U140

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

Revision: 1.2 Revision date: 16 April 2021 Date printed: 03 February 2023

Section 1. Identification

1.1 Product Identifier 0146

Product Name CALCIUM HYPOCHLORITE BASIC

CAS Number 7778-54-3

REACH Registration No A registration number is not available as the substance or its uses are exempt, the

annual tonnage does not require a registration or the registration is envisaged for a

later date.

Molecular Formula CaCl₂O₂ = 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

VICKERS

Grangefield Industrial Estate

Richardshaw Road

Pudsey

West Yorkshire LS28 6QW

UNITED KINGDOM

 Phone
 44 0113 2362811

 Fax
 +44(0)113 2362703

 Email
 safety@viclabs.co.uk

 Website
 www.viclabs.co.uk

1.4 Emergency Telephone (08:00-16:30) +44(0) 113 2362811

lhr) 11

(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 H272: May intensify fire; oxidizer.

Skin corrosion/irritation, category 1B H314: Causes severe skin burns and eye damage.

Acute toxicity, category 4 (oral) H302: Harmful if swallowed.

Hazard to aquatic environment, category 1 H400: Very toxic to aquatic life.

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 cautiously 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

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

ATTENTION URGENTLY.

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

OBTAIN MEDICAL ATTENTION.

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

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

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.

Nothing specified. Unsuitable Media

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

Environmental 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 (8	Long Term (8hr TWA)		5min 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

Not applicable Lower Flammable Limit Auto Ignition Not applicable

Explosive Properties No.

A strong oxidising agent. Oxidising Properties

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

9.2 Other information

No data available.

Section 10. Stability & Reactivity

10.1 Reactivity

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

10.3 Possibility of hazardous

reactions

No data available.

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

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

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

Products

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

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. Mutagenicity Not considered to be a mutagen.

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

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.

12.4 Mobility in soil

Results of PBT & vPvB 12.5 assessment

Assessment not required.

No data available.

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.

Use a licensed waste disposer. Contaminated Packaging

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 ADR Hazard ID 50 Tunnel Restriction Code Е 14.4 Packing Group П

14.5 Environment hazards See section 12.

14.6 Special precautions for

14.7 Transport in bulk

Not transported in bulk.

No special precautions required.

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







OXIDIZING

AGENT



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 cautiously with water for several minutes.

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

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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.

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