

Camlab Limited – Material Safety Data Sheet

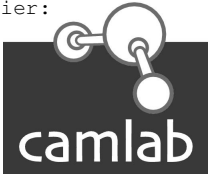
1. Identification

Product Code CC/0146-CO

Product Name **CALCIUM HYPOCHLORITE BASIC**

CAS Number 7778-54-3

Supplier: **CAMLAB LIMITED**



**Norman Way Industrial Estate
Over
Cambridge
England
CB4 5WE**

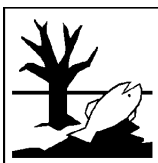
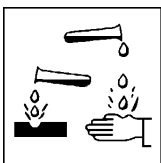
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(Have this document to hand)

2. Composition

Component	CAS No	EEC No	Conc w/w	Classification & Risk Phrases	Exp (See 8.1)
Available chlorine	7681-52-9	231-668-3	36.0%	O C N : R31,R34	N/A

3. Hazards Identification



Contact with combustible material may cause fire. Harmful if swallowed. Contact with acids liberates toxic gas. Causes burns. Very toxic to aquatic organisms.

4. 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.

5. Fire Fighting Measures

Hazards Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-fighters should wear protective clothing and breathing apparatus. May evolve toxic fumes if involved in a fire. Mixtures with combustible materials are flammable. Mixtures with finely divided combustible materials can react explosively.

Extinguishing Media Water spray.

Unsuitable Media Nothing specified.

6. Accidental Release Measures

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. Accidental Release Measures (continued)

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.
Major Spillage	Contain and absorb on inert material. Transfer absorbent to salvage container for removal. Wash area down with copious amounts of water.
Minor Spillage	Wash area down with copious amounts of water.

7. Storage & Handling

Handling Precautions	Avoid contact with skin and eyes. Do not breath dust. Do not allow to contaminate clothing. Ensure Local Exhaust Ventilation maintains dust concentrations to a minimum.
Storage Conditions	Well ventilated, cool, dry storage . Keep well separated from acids. Keep well separated from combustible materials.

8.1 Workplace Exposure Limits

No prescribed exposure limits available

8.2 Personal Protection

Respiratory	Use L.E.V. or natural ventilation to maintain dust concentrations below exposure limits. If not, use a well maintained chemical cartridge respirator, or use self contained breathing apparatus.
Hands	Use PVC gauntlets.
Eyes	Use chemical splash proof glasses or goggles.
Skin	If skin contact or contamination of clothing is likely, protective clothing must be worn.

9. Physical & Chemical Properties

Appearance	Off-white granules.
Odour	Faint odour of chlorine.
pH	11 (1% solution)
Boiling point	Not available
Melting point	Not available
Flash point	Not available
Upper Flammable Limit	Not available
Lower Flammable Limit	Not available
Auto Ignition	Not available
Explosive properties	No.
Oxidising Properties	A strong oxidising agent.
Vapour Pressure	Not available
Relative Density	1.1000 °C
Water Solubility	18%

10. Stability & Reactivity

Chemical Stability	Very slowly decomposes with release of oxygen, this is accelerated by elevated temperatures.
Conditions to Avoid	Avoid exposure to heat and strong sunlight.
Materials to Avoid	Acids, ammonium salts, methanol, hydrocarbons, copper, nickel, iron and monel metal.
Hazardous Decomposition Products	Decomposes to form flammable oxygen and highly toxic chlorine gas.

11. Toxicological Information

Eyes	The dust is be extremely irritating to eyes and can cause chemical eye burns. Damage can range from severe irritation and corneal scarring to permanent blindness.
Skin	Contact with the solid or dust will cause burns.

11. Toxicological Information (continued) burns.)

LD50 Skin	Rabbit >2g/Kg
Ingest	Ingestion of low to moderate amounts can result in burning in the throat and gastrointestinal effects such as ulceration, nausea, vomiting, diarrhoea and constipation.
LD50 Ingest	Oral Rat 850mg/Kg
Inhalation	Inhalation may result in pulmonary oedema, high concentrations may cause permanent lung damage.
Carcinogenicity	Not considered to be a carcinogen.
Mutagenicity	Not considered to be a mutagen.
Reproductive Effects	None identified.

12. Ecological

Soluble in water liberating hypochlorous acid. Toxic to fish LC50 [Bluegill] 0.088mg/l. Very toxic to aquatic organisms.

13. Disposal Considerations

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.

14. Transport Information

Proper Shipping Name	Calcium hypochlorite, hydrated
UN Number	2880
UN Classification	5.1 Oxidising agent
Subsidiary Risk	None
Flash Point	Not available
Packing Group	II
Transport Category	2
Marine pollutant	No
ADR Hazard ID	50



15. Regulatory Information

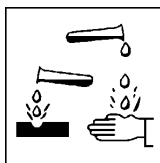
Labelling Oxidising, Corrosive, Dangerous for the Environment.
Classification

Label Symbols

O



C



N



Risk & safety Phrases Contact with combustible material may cause fire. Harmful if swallowed. Contact with acids liberates toxic gas. Causes burns. Very toxic to aquatic organisms. Keep locked up and out of reach of children. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label). Avoid release to the environment, refer to special instructions/safety data sheet.

EEC Number 231-90-7

16. Other Information

Document Information This document has been prepared in accordance with directive 88/379/EEC.

16. Other Information (continued)

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment.

Revision Date: 7/09/06.

Data reviewed and PDF file generated: 19/07/07.

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