

Calcium Hydroxide



(Hydrated Lime)

SAFETY DATA SHEET

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1. PRODUCT AND COMPANY IDENTIFICATION

Product Name	Calcium Hydroxide Also known as Hydrated Lime Lime Water Slaked Lime Caustic Lime Kemikal
Chemical Formula	Ca(OH) ₂
Recommended Use	Agriculture
Company Name	Irish Oxygen Co Ltd, Waterfall Road, Cork
Email	sds@irishoxygen.com
Emergency Phone	021-4541821 (office hours only)

2. HAZARDS IDENTIFICATION

DANGER! HARMFUL IF SWALLOWED OR INHALED. CAUSES BURNS TO SKIN AND EYES. CAUSES SEVERE IRRITATION TO RESPIRATORY TRACT.

Inhalation:

Causes irritation to the respiratory tract. Symptoms may include coughing, shortness of breath. Can cause chemical bronchitis.

Ingestion:

Gastric irritant. Ingestion may be followed by severe pain, vomiting, diarrhoea, and collapse. If death does not occur in 24 hours, oesophageal perforation may occur, as evidenced by fall in blood pressure and severe pain. A narrowing of the oesophagus may occur weeks, months, or years after ingestion, making swallowing difficult.

Skin Contact:

Corrosive. May cause severe burns and blistering, depending on duration of contact.

Eye Contact:

Corrosive. May produce severe irritation and pain. May induce ulcerations of the corneal epithelium. Can cause blindness.

Chronic Exposure:

Prolonged or repeated skin contact may produce severe irritation or dermatitis.

Aggravation of Pre-existing Conditions:

Persons with pre-existing skin problems or impaired respiratory function may be more susceptible to the effects of this substance.

GHS Hazard Pictograms



3. COMPOSITION INFORMATION

Substance/Preparation	Substance
Composition	No other components
CAS No	1305-62-0
EINECS No	215-137-3

4. FIRST AID MEASURES

Inhalation

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician immediately.

Ingestion

DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. Call a physician immediately.

Skin contact

In case of contact, wipe off excess material from skin then immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician immediately.

Eye contact

Immediately flush eyes with gentle but large stream of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Call a physician immediately.

5. FIRE FIGHTING MEASURES

Specific hazard

Not considered to be a fire hazard.

Suitable extinguishing media

Use any means suitable for extinguishing surrounding fire.

Special protective equipment for fire fighters

In the event of a fire, wear full protective clothing and self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Ventilate area of leak or spill. Keep unnecessary and unprotected people away from area of spill.

Environmental precautions

Pick up and place in a suitable container for reclamation or disposal, using a method that does not generate dust. Do not flush caustic residues to the sewer.

Clean up methods

Residues from spills can be diluted with water, neutralized with dilute acid such as acetic, hydrochloric or sulfuric. Absorb neutralized caustic residue on clay, vermiculite or other inert substance and package in a suitable container for disposal.

7. HANDLING AND STORAGE

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Isolate from incompatible substances. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ensure adequate ventilation.

Skin Protection:

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Eye Protection:

Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Colour /Odour	White odourless crystals or powder
Molecular Weight	74.09
Melting Point	580°C
Boiling Point	Decomposes
Solubility in water	
Specific Gravity	2.24
Vapour Density	2.5 (air =1)
pH	12.4 (saturated solution)
Solubility in water	0.185 g/100 cc @ 0°C
Other Data	Poor warning properties at low concentrations.

10. STABILITY AND REACTIVITY

Stable under ordinary conditions of use and storage. Readily absorbs carbon dioxide from air to form calcium carbonate. Caustic fumes of calcium oxide form when heated to decomposition 580°C

11. TOXICOLOGICAL INFORMATION

Skin, eye and respiratory irritant. Corrosive, causes burns

Oral rat LD50: 7340 mg/kg

12. ECOLOGICAL INFORMATION

Do not let product flow into drains or sewers. Dilute profusely with water.

13. DISPOSAL CONSIDERATIONS

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste facility. Processing, use or contamination of this product may change the waste management options.

14. TRANSPORT INFORMATION

UN Number:	3262
Class/Div:	8
ADR/RID Item Number:	Not classified
ADR/RID Hazard Number:	Not classified
Groupcard Number:	Not classified
Labelling ADR:	Not classified

Avoid transport on vehicles where the load space is not separated from the driver's compartment. Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or emergency. Before transporting product cylinders, ensure that they are firmly secured, that cylinder valve is closed and not leaking, that there is adequate ventilation and that applicable regulations are complied with

15. REGULATORY INFORMATION

EC Classification	R34/R36/R38/R41
Risk Phrases	R34 Causes burns R36 Irritating to eyes R37 Irritating to respiratory system R38 Irritating to skin R41 Risk of serious damage to eyes
Safety Phrases	S22 Do not breathe dust S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice S39 Wear eye/face protection

16. OTHER INFORMATION

The information given here is based on the present state of knowledge and describes the product under the aspects of safety. It should not therefore be construed as guaranteeing specific properties. Whilst proper care has been taken in the preparation of this document, no liability for injury or damage resulting from its use can be accepted.