

1. Identification


Product Code CC\1206

Product Name **LITHIUM HYDROXIDE H2O pure**

Molecular Formula **LiOH.H₂O =41.96**

CAS Number **1310-65-2**

Supplier: **CAMLAB LIMITED**
Norman Way Industrial Estate
Over
Cambridge
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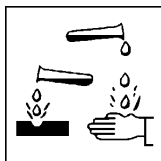
Fax **01954 233101**

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24hr 112
(Have this document to hand)

2. Composition

Component	CAS No	EEC No	Conc w/w	Classification & Risk Phrases	Exp (See 8.1)
Lithium hydroxide	1310-65-2	215-183-4	> 56.5%	C : R34	N/A

3. Hazards Identification



Causes burns.

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. If irritation persists or there is any sign of skin damage, seek IMMEDIATE MEDICAL ASSISTANCE

Inhalation Remove from exposure.

Ingestion If conscious give plenty of water to drink. Do not induce vomiting. OBTAIN MEDICAL ATTENTION URGENTLY.

5. Fire Fighting Measures

Hazards Presents no specific fire danger.

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

Unsuitable Media Nothing specified.

6. Accidental Release Measures

Personal Protection Avoid breathing dust. Use approved personal protective equipment. Evacuate area immediately. Do not allow other people to enter area. Do not allow general use of area until it is safe to do so.

6. Accidental Release Measures (continued)

Environmental	Keep non-neutralised 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 spill with inert material. Neutralise with 5M hydrochloric acid. 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 below the recommended limits.
Storage Conditions	Store in a dry place protected against moisture and water. Keep well separated from acids, metals, explosives, organic peroxides and ignitable materials.

8.1 Workplace Exposure Limits

No prescribed exposure limits available

8.2 Personal Protection

Respiratory	If process creates significant amounts of dust use L.E.V. or wear suitable dust mask.
Hands	Use nitrile gloves or PVC gauntlets.
Eyes	Use chemical full face shield.
Skin	If skin contact or contamination of clothing is likely, protective clothing must be worn. Wear PVC oversuit.

9. Physical & Chemical Properties

Appearance	White hygroscopic crystalline solid
Odour	No specific odour.
pH	1 @ 20 °C
Boiling point	999.0 °C
Melting point	462.0 °C
Flash point	Not available
Upper Flammable Limit	Not available
Lower Flammable Limit	Not available
Auto Ignition	Not available
Explosive properties	No.
Oxidising Properties	No.
Vapour Pressure	Not available
Relative Density	Not available
Water Solubility	Moderately soluble in water.

10. Stability & Reactivity

Chemical Stability	Stable under normal conditions
Conditions to Avoid	No specific conditions.
Materials to Avoid	Acids. Warm ammoniacal silver nitrate. Nitrobenzene. Sodium tetrahydroborate. Reacts with aluminium and zinc to produce extremely flammable hydrogen gas. Bromine. Chloroform and methanol.
Hazardous Decomposition Products	None unusual.

11. Toxicological Information

Eyes	The solid and solutions will cause severe burns. Damage can range from severe irritation and corneal scarring to permanent blindness.
Skin	Contact with the solid or solution will not lead to immediate pain but damage begins at once. Severe ulceration and scarring may occur in serious cases.
LD50 Skin	Not available
Ingest	Ingestion will cause severe mouth burns, and if swallowed extensive damage to the oesophagus.
LD50 Ingest	Not available
Inhalation	Prolonged exposure to dust or fume concentrations above the occupational exposure limits will produce severe irritation of the eyes, nose, throat and respiratory tract.
Carcinogenicity	Has been implicated as a possible cause of cancer of the oesophagus after very prolonged exposure. Carcinogenesis in these cases may be due to tissue destruction and scar formation.
Mutagenicity	Not considered to be a mutagen.
Reproductive Effects	Some studies of pregnant mice and rats were associated with birth defects but only at doses large administered to rats but no major malformations.
Other Information	The irritant effect provides warning that control of exposure is needed.

12. Ecological

Small amounts present no specific environmental hazard. Neutralised material presents no specific environmental hazard.

13. Disposal Considerations

Disposal Methods	Dilute in a large excess of water and carefully neutralise with an acid, then wash to drain with copious amounts of water
Contaminated Packaging	Very carefully wash out containers with water. Use a licensed waste disposer.

14. Transport Information

Proper Shipping Name	Lithium hydroxide
UN Number	2680
UN Classification	8 Corrosive
Subsidiary Risk	None
Flash Point	Not available
Packing Group	II
Transport Category	2
Marine pollutant	No
ADR Hazard ID	80

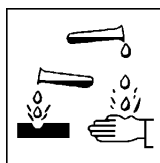


15. Regulatory Information

Labelling	Corrosive.
Classification	

Label Symbols

C



Risk & safety Phrases Causes burns. Do not breath dust. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

EEC Number 215-183-4

16. Other Information

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

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

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