

POCH Safety Data Sheet

According to EC Directive 2001/58/CE. Creation date / last update: 2004-10-14 / 2005-07-04

1. Identification of the substance/preparation and of the company/undertaking

LITHIUM HYDROXIDE ANH.

Catalogue Numbers: *purified-604880739*;

Use of the substance / preparation: for laboratory

POCH SA

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2. Hazard identification

Harmful if swallowed. Causes severe burns.

3. Composition/information on ingredients

CAS-No.: 1310-65-2

Molecular mass: 23,95

Molecular formula: *LiOH*

WE Number: 215-183-4

4. First aid measures

After eye contact: *Rinse out with plenty of water for at least 10 minutes with the eyelid held wide open. Immediately call in ophthalmologist.*

After skin contact: *Wash off with plenty of water. Dab with polyethylene glycol 400. Immediately remove contaminated clothing.*

After swallowing: *Make victim drink plenty of water, avoid vomiting (risk of perforation). Immediately call in physician. Do not attempt neutralize.*

After inhalation: *fresh air, call in physician*

5. Fire-fighting measures

Suitable extinguishing media: *in adaption to materials stored in the immediate neighbourhood*

Special risk: *non-combustible*

Special protective equipment for fire fighting:

Other information:

Prevent fire-fighting water from entering surface water or groundwater. Cool container with spray water from a safe distance.

Contain escaping vapours with water.

6. Accidental release measures

Avoid substance contact. Avoid generation of dust. Do not inhale dust. Do not allow to enter sewerage system. Take up dry. Forward for disposal. Clean up affected area.

LITHIUM HYDROXIDE ANH.

7. Handling and storage

Handling: *Use with adequate ventilation. Use of the basic principles of Industrial Hygiene. Use according to good industry practice. Work under hood. Do not inhale substance. Do not empty into sewerage system. Use protective equipment according to p.8. Avoid skin contact.*

Storage: *tightly closed. Dry place. Storage temperature: no restriction*

8. Exposure controls/personal protection

Specific control parameter: *non established*

Provide exhaust ventilation. Ensure the eye wash station and safety showers. Protective equipment should be selected for the working place, depending on concentration and quantity of the hazardous product handled. The resistance of the protective clothing to chemicals should be ascertained with respective supplier.

Personal protective equipment:

respiratory protection: *required when dusts are generated: respirator*

eye protection: *required - protective glasses.*

hand protection: *required - protective gloves.*

body protection: *required - protective clothing.*

industrial hygiene: *immediately change contaminated clothing. Apply skin - protective barrier cream. Wash hands and face after working with substance.*



9. Physical and chemical properties

Form: *solid*

Colour: *colourless*

Odour: *odourless*

pH value: *50 g/lH₂O (50°C) about 12*

Melting point: *462°C*

Boiling point: *924°C (decomposition)*

Ignition temperature:

Flash point:

Explosion limit: *not applicable*

lower:

upper:

dynamic viscosity:

kinematical viscosity:

Vapour pressure: *not available*

Density: *(20°C) 2,54 g/cm³*

Bulk density: *about 550 kg/m³*

Solubility:

in water: *(20°C) 71 g/l*

in organic solvents:

log P(w/o):

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10. Stability and reactivity

Conditions to be avoided: *moisture*

Substances to be avoided: *acids*

Hazardous decomposition products:

Other information: *hygroscopic, readily absorbs CO₂ from air; unsuitable working materials: lead, aluminium, zinc, tin*

11. Toxicological information

Toxicological information: *LD50(oral, rat):210 mg/kg*

Other information: *After inhalation: burns of mucous membranes. Inhalation may lead to the formation of oedemas in the respiratory tract; After skin contact: burns, tissue damage; After eye contact: burns. Risk of blindness; After swallowing: burns in mouth, throat, oesophagus and gastrointestinal track. Risk of perforation in the oesophagus and stomach.*

12. Ecological information

Harmful effect on aquatic organisms. Harmful effect due to pH shift. Generally for lithium compounds, toxicity: fish, toxic from 100 mg/l up; Daphnia, toxic from 16 mg/l up; plants, toxic from 0,2 mg/l up (volumes calculated as Li); Do not enter waters, waste water, or soil.

13. Disposal considerations

POCh product packaging must be disposed of in compliance with the country-specific regulations or must be passed to a packaging return system. Handle contaminated packing in the same way as the substrate itself. Always contact a permitted waste disposal to assure compliance with all current local, state and federal regulations.

14. Transport information

ADR Class and package group: *8, II*

UN Number: *2680*

Name (acc. to UN): *lithium hydroxide*

15. Regulatory information

Labelling according to EC Directives.

Symbol: *C, Corrosive; Corrosive.*

R-phrases: *22-35; Harmful if swallowed. Causes severe burns.*

S-phrases: *26-36/37/39-45; In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Wear suitable protective clothing, gloves and eye/face protection.*

16. Other information

Reason for alteration: general update.

Informations contained in this SDS while accurate to the best knowledge