

	according to Regulation (EC) No 1907	/2006	
	Lithium hydroxide, 25 g		
Print date: 14.04.2015	Product code: 9991565		Page 1 of 8
SECTION 1: Identification of t	the substance/mixture and of the company	/undertaking	
1.1. Product identifier			
Lithium hydroxide	e, 25 g		
CAS No:	1310-65-2		
EC No:	215-183-4		
	he substance or mixture and uses advised aga	inst	
Use of the substance/mixture			
Laboratory chemi 1.3. Details of the supplier of the			
	<u>e safety data sneet</u>		
Seller	CONATEX-DIDACTIC Lehrmittel GmbH		
Company name: Street:			
Place:	Im Forstgarten 1 D-66459 Kirkel		
Internet:	www.conatex.com		
	www.conatex.com		
Supplier			
Company name:	Carbolution Chemicals GmbH		
Street:	Im Stadtwald, Gebäude A1.2		
Place:	D-66123 Saarbrücken	T-l	
Contact person:	Dr. Michael Bauer	Telephone: +49 (0)681 302-71232	
e-mail:	michael.bauer@carbolution-chemicals.de		
Internet:	www.carbolution-chemicals.de		
<u>1.4. Emergency telephone</u> number:	+49 (0)681 302-71232		
SECTION 2: Hazards identific	ation		
2.1. Classification of the substar	ace or mixture		
	irective 67/548/EEC or 1999/45/EC		
	nger: T - Toxic, C - Corrosive, Xn - Harmful		
R phrases:			
Harmful if swallov	ved.		
Toxic by inhalatio			
Causes severe bu	urns.		
-	egulation (EC) No. 1272/2008 [CLP]		
Hazard categorie Acute toxicity: Ac			
Acute toxicity: Ac			
	······································		

Skin corrosion/irritation: Skin Corr. 1B Hazard Statements: Toxic if swallowed. Toxic if inhaled.

Causes severe skin burns and eye damage.

2.2. Label elements

Hazardous components which must be listed on the label Lithium hydroxide		
Signal word:	Danger	
Pictograms:	GHS05-GHS06	



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Hazard statements H301+H331 H314	Toxic if swallowed or if inhaled. Causes severe skin burns and eye damage.	
Precautionary statement P280 P301+P310 P305+P351+P338 P501	 Wear protective gloves/protective clothing/eye protection/face protection. IF SWALLOWED: Immediately call a POISON CENTER/doctor. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Dispose of contents/container to Waste management. 	

SECTION 3: Composition/information on ingredients

3.1. Substances

Sum formula:	HLiO
Molecular weight:	23,95

Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification according to Directive 67/548/EEC	
Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
215-183-4	Lithium hydroxide	100 %
1310-65-2	T - Toxic, C - Corrosive, Xn - Harmful R22-23-35	
	Acute Tox. 3, Acute Tox. 3, Skin Corr. 1B; H301 H331 H314	

Full text of R-, H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

First aider: Pay attention to self-protection! Move victim out of danger zone.

After inhalation

Provide fresh air. In case of breathing difficulties administer oxygen. No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator. Call a physician immediately.

After contact with skin

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Medical treatment necessary.

After contact with eyes

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

After ingestion

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Potential hazards: Stomach perforation. Call a physician immediately. Do not allow a neutralisation agent to be drunk.

4.3. Indication of any immediate medical attention and special treatment needed

No data available



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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

5.2. Special hazards arising from the substance or mixture

The product itself does not burn.

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protective suit.

Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Avoid generation of dust. Do not breathe dust. Avoid contact with skin, eyes and clothes. Wear personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe dust.

Advice on protection against fire and explosion

Only use the material in places where open light, fire and other flammable sources can be kept away.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaustion at critical locations.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
1310-65-2	Lithium hydroxide	-	-		TWA (8 h)	WEL
		-	1		STEL (15 min)	WEL

8.2. Exposure controls

Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe dust.

Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Protect skin by using skin protective cream.



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After work, wash hands and face. When using do not eat or drink.

Eye/face protection

Eye protection: Tightly sealed safety glasses. German Industry Norms (DIN) / European Norms (EN): **DIN EN 166**

Hand protection

Hand protection: Single-use gloves. Before using check leak tightness / impermeability. Use gloves only once. German Industry Norms (DIN) / European Norms (EN): DIN EN 374

Skin protection

Body protection: Lab apron. Only wear fitting, comfortable and clean protective clothing.

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Suitable respiratory protective equipment: particulates filter device (DIN EN 143).

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	solid		
Colour:	colourless		
Odour:	No data available		
			Test method
pH-Value:		No data available	
Changes in the physical state			
Melting point:		470 °C	
Initial boiling point and boiling range:		No data available	
Sublimation point:		No data available	
Softening point:		No data available	
Flash point:		No data available	
Flammability			
Solid:		No data available	
Gas:		No data available	
Lower explosion limits:		No data available	
Upper explosion limits:		No data available	
Ignition temperature:		No data available	
Auto-ignition temperature			
Solid:		No data available	
Gas:		No data available	
Vapour pressure:		No data available	
Vapour pressure:		No data available	
Density:		2,54 g/cm ³	
Water solubility:		No data available	
Partition coefficient:		No data available	
Viscosity / dynamic:		No data available	
Viscosity / kinematic:		No data available	
Flow time:		No data available	
Vapour density:		No data available	



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Evaporation rate:	No data available			
Solvent separation test:	No data available			
Solvent content:	No data available			
9.2. Other information				
Solid content:	No data available			

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

No data available

10.5. Incompatible materials

Oxidizing agents, strong.

10.6. Hazardous decomposition products

No data available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicocinetics, metabolism and distribution

Toxicological data are not available.

Acute toxicity

Toxic. Acute toxicity, inhalant. Acute toxicity, dermal.

CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
1310-65-2	Lithium hydroxide				
	oral	ATE	100 mg/kg		
	inhalative vapour	ATE	3 mg/l		
	inhalative aerosol	ATE	0,5 mg/l		

Irritation and corrosivity

after ingestion: Irritant and corrosive effects. Potential hazards: Stomach perforation.

Sensitising effects

No data available

Severe effects after repeated or prolonged exposure

No data available

Carcinogenic/mutagenic/toxic effects for reproduction

Due to missing data no statement can be made whether the substance fullfills the criteria of CMR categories 1 or 2. Practical experiences do not give any evidence for CMR activity of categories 1 or 2.

Specific effects in experiment on an animal

No data available

Additional information on tests

The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).



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Practical experience

Observations relevant to classification

No data available

SECTION 12: Ecological information

12.1. Toxicity

No data available

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

No data available

12.6. Other adverse effects

No data available

Further information

Do not allow to enter into surface water or drains. The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Dispose of waste according to applicable legislation.

Waste disposal number of waste from residues/unused products

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals

Classified as hazardous waste.

Waste disposal number of used product

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals

Classified as hazardous waste.

Waste disposal number of contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by dangerous substances Classified as hazardous waste.

Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

Land transport (ADR/RID)

14.1. UN number:

14.2. UN proper shipping name:

UN2680 LITHIUM HYDROXIDE



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14.3. Transport hazard class(es):	8	
14.4. Packing group:	11	
Hazard label:	8	
Classification code:	C6	
Limited quantity:	1 kg	
Transport category:	2	
Hazard No:	80	
Tunnel restriction code:	E	
Other applicable information (land trans E2	sport)	
Inland waterways transport (ADN)		
<u>14.1. UN number:</u>	UN2680	
14.2. UN proper shipping name:	LITHIUM HYDROXIDE	
14.3. Transport hazard class(es):	8	
14.4. Packing group:	ll	
Hazard label:	8	
Classification code:	C6	
Limited quantity:	1 kg	
	-	
Other applicable information (inland wa E2	iterways transport)	
Marine transport (IMDG)		
<u>14.1. UN number:</u>	UN2680	
14.2. UN proper shipping name:	LITHIUM HYDROXIDE	
<u>14.3. Transport hazard class(es):</u>	8	
14.4. Packing group:		
Hazard label:	8	
Special Provisions:	-	
Limited quantity:	1 kg	
EmS:	F-A, S-B	
Other applicable information (marine tra		
E2		
Air transport (ICAO)		
<u>14.1. UN number:</u>	UN2680	
14.2. UN proper shipping name:	LITHIUM HYDROXIDE	
14.3. Transport hazard class(es):	8	
14.4. Packing group:	II	
Hazard label:	8	
Limited quantity Passenger:	5 5 kg	
	859	
IATA-packing instructions - Passenger: IATA-max. quantity - Passenger:	859 15 kg	
IATA-max. quantity - Passenger. IATA-packing instructions - Cargo:	863	
IATA-packing instituctions - Cargo:	50 kg	
	-	
Other applicable information (air transp E2	uori)	
Ez : Y844		
14.5. Environmental hazards		



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ENVIRONMENTALLY HAZARDOUS:

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

no

EU regulatory information

Additional information

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

National regulatory information

Water contaminating class (D):

3 - highly water contaminating

SECTION 16: Other information

Relevant R-phrases (Number and full text)

- 22 Harmful if swallowed.
- 23 Toxic by inhalation.
- 35 Causes severe burns.

Relevant H- and EUH-phrases (Number and full text)

H301	Toxic if swallowed.
H301+H331	Toxic if swallowed or if inhaled.
H314	Causes severe skin burns and eye damage.
H331	Toxic if inhaled.