



according to Regulation (EC) No 1907/2006

# Lithiumhydroxidlösung 4 mol/l zur pH-Wert-Einstellung

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# SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Lithiumhydroxidlösung 4 mol/l zur pH-Wert-Einstellung

UFI: 8WY0-F30E-Q00C-RH7V

# 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### Use of the substance/mixture

Laboratory chemicals

Industrial uses: Uses of substances as such or in preparations at

industrial sites

Professional uses: Public domain (administration, education,

entertainment, services, craftsmen)

#### Uses advised against

Do not use for private purposes (household).

# 1.3. Details of the supplier of the safety data sheet

Company name: AnalytiChem GmbH

ACD

Street: Stempelstraße 6
Place: D-47167 Duisburg

Telephone: 0203/5194-0 Telefax: 0203/5194-290 E-mail: info@analytichem.de

E-mail: info@analytichem.de

Contact person: Abteilung Telephone: 0203/5194-107/117

Produktsicherheit

E-mail: produktsicherheit@analytichem.de

Internet: www.analytichem.de

Responsible Abteilung Produktsicherheit

Department:

**1.4. Emergency** For Hazardous Materials [or Dangerous Goods]

<u>telephone number:</u> Incidents Spill, Leak, Fire, Exposure, or

Accident Call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 Outside USA and Canada: +1 703-741-5970 (collect calls accepted)

#### **Further Information**

This product is a mixture. REACH Registration Number see section 3.

#### **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Skin Corr. 1B; H314 Eye Dam. 1; H318

Full text of hazard statements: see SECTION 16.

#### 2.2. Label elements

Regulation (EC) No 1272/2008

Hazard components for labelling

Lithiumhydroxid-Monohydrat



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Signal word:

Danger

Pictograms:



**Hazard statements** 

H314 Causes severe skin burns and eye damage.

**Precautionary statements** 

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all

contaminated clothing. Rinse skin with water or shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several

minutes. Remove contact lenses, if present and easy to

do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

#### 2.3. Other hazards

No information available.

# **SECTION 3: Composition/information on ingredients**

#### 3.2. Mixtures

# **Chemical characterization**

Mixtures in aqueous solution

# Relevant ingredients

CAS No	Chemical name	Chemical name			
	EC No	Index No	REACH No		
	Classification (Regulation (EC) No	Classification (Regulation (EC) No 1272/2008)			
1310-66 -3	Lithiumhydroxid-Monohydrat				
			01-2119560576-31		
	Acute Tox. 4, Skin Corr. 1B, Eye Dam. 1; H302 H314 H318				

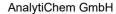
Full text of H and EUH statements: see section 16.

# Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
1310-66 -3		Lithiumhydroxid-Monohydrat	15 - < 20 %
	inhalation: LC50 = > 6,15 mg/l (dusts or mists); dermal: LD50 = > 2000 mg/kg; oral: LD50 = 363 mg/kg		

# **Further Information**

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of = 0.1 % (w/w).





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#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

#### **General information**

First aider: Pay attention to self-protection!

#### After inhalation

Provide fresh air.

Call a physician immediately.

#### After contact with skin

Wash immediately with: Water

Take off immediately all contaminated clothing and wash it before

reuse.

Call a physician immediately.

#### After contact with eyes

In case of contact with eyes flush immediately with plenty of

flowing water for 10 to 15 minutes holding eyelids apart and

consult an ophthalmologist.

Remove contact lenses, if present and easy to do. Continue rinsing.

Protect uninjured eye.

#### After ingestion

Rinse mouth immediately and drink plenty of water.

Adverse human health effects and symptoms: Gastric perforation.

Call a physician immediately. Do not allow a neutralisation agent

to be drunk.

# 4.2. Most important symptoms and effects, both acute and delayed

Dizziness

Gastrointestinal complaints

Vomiting

Cyanosis (blue coloured blood)

Dyspnoea

May cause damage to organs. (kidneys, thyroid gland, central

nervous system)

Extremely damaging effect on the tissue of the mucous membranes and

upper respiratory tract, as well as on the eyes and skin.

#### 4.3. Indication of any immediate medical attention and special

#### treatment needed

No data available

# **SECTION 5: Firefighting measures**

# 5.1. Extinguishing media

#### Suitable extinguishing media

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

# Unsuitable extinguishing media

no restriction

# 5.2. Special hazards arising from the substance or mixture

Non-flammable.

<u>5.3. Advice for firefighters</u>
Wear a self-contained breathing apparatus and chemical protective





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clothing.

Avoid contact with skin, eyes and clothes.

#### 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**

# $\underline{\textbf{6.1. Personal precautions, protective equipment and emergency}}$

### procedures

#### General advice

Avoid contact with skin, eyes and clothes. Do not breathe vapour/aerosol.

#### For non-emergency personnel

Provide adequate ventilation.

Use personal protection equipment.

Avoid contact with skin, eyes and clothes.

Remove persons to safety.

Emergency procedures

Consult an expert

Do not breathe dust/fume/gas/mist/vapours/spray.

# For emergency responders

Precautionary statements For emergency responders : Personal protection equipment: see section 8

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

#### 6.3. Methods and material for containment and cleaning up

#### For containment

Cover drains.

Prevent spread over a wide area (e.g. by containment or oil barriers)

Collect in closed and suitable containers for disposal.

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

# For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

# Other information

Provide adequate ventilation.

Do not breathe dust/fume/gas/mist/vapours/spray.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

# 6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

# **SECTION 7: Handling and storage**

# 7.1. Precautions for safe handling





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#### Advice on safe handling

Read label before use. Handle and open container with care.

When using do not eat, drink, smoke, sniff. Use personal protection equipment.

Provide adequate ventilation. Avoid contact with skin, eyes and clothes

Do not breathe vapour/aerosol.

Use extractor hood (laboratory).

#### Advice on protection against fire and explosion

Usual measures for fire prevention.

#### Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

If handled uncovered, arrangements with local exhaust ventilation have to be used.

The choice of body protection depends on the concentration and quantity of hazardous substances. The chemical resistance of protective agents must be clarified with their suppliers.

#### Further information on handling

Draw up and observe skin protection programme.

Wash hands and face before breaks and after work and take a shower if necessary.

Take off immediately all contaminated clothing and wash it before reuse.

# 7.2. Conditions for safe storage, including any incompatibilities

# Requirements for storage rooms and vessels

Corrosive to metals.

Unsuitable container/equipment material: Metal, Aluminium, Tin,

Provide adequate ventilation as well as local exhaustion at critical locations.

#### Further information on storage conditions

Store in a dry place.

Keep container tightly closed.

#### 7.3. Specific end use(s)

Laboratory chemicals

# **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters



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#### **DNEL/DMEL values**

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
1310-66 -3	Lithiumhydroxid-Monohydrat			
Worker DNEL	, long-term	inhalation	systemic	10 mg/m³
Worker DNEL	, acute	inhalation	systemic	30 mg/m³
Worker DNEL, long-term		dermal	systemic	41,35 mg/kg bw/day
Worker DNEL, acute		dermal	systemic	100 mg/kg bw/day
Consumer DN	Consumer DNEL, long-term		systemic	6,21 mg/m³
Consumer DNEL, long-term		dermal	systemic	41,35 mg/kg bw/day
Consumer DN	EL, long-term	oral	systemic	4,13 mg/kg bw/day
Consumer DNEL, acute		oral	systemic	12,4 mg/kg bw/day

# **PNEC** values

CAS No	Substance		
Environmental	compartment	Value	
1310-66 -3	Lithiumhydroxid-Monohydrat		
Freshwater		2,3 mg/l	
Freshwater (intermittent releases)		0,344 mg/l	
Marine water		0,23 mg/l	
Freshwater sediment		9 mg/kg	
Marine sediment 0		0,9 mg/kg	
Micro-organisms in sewage treatment plants (STP)		79,2 mg/l	
Soil 0,45 mg		0,45 mg/kg	

# 8.2. Exposure controls

# Appropriate engineering controls

Do not breathe vapour/aerosol.

If handled uncovered, arrangements with local exhaust ventilation have to be used.

Technical measures and the application of suitable work processes have priority over personal protection equipment.

# Individual protection measures, such as personal protective equipment

#### Eye/face protection

Wear eye/face protection.

# **Hand protection**

Protective gloves are recommended Company KCL GmbH, D-36124





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Eichenzell, email: vertrieb@kcl.de With specification (test according to EN374):

By long-term hand contact

Recommended glove articles: KCL 741 Dermatril® L Recommended material: NBR (Nitrile rubber) 0,11 mm Wearing time with permanent contact: > 480 min

By short-term hand contact

Recommended glove articles: KCL 741 Dermatril® L Recommended material: NBR (Nitrile rubber) 0,11 mm Wearing time with occasional contact (splashes): > 480 min

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. This recommendation applies only to the product stated in the safety data sheet<(>,<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

#### Skin protection

Wear suitable protective clothing.

#### Respiratory protection

Respiratory protection necessary at: aerosol or mist formation The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

#### Thermal hazards

No data available

# **Environmental exposure controls**

Do not allow to enter into surface water or drains.

# **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

Physical state: Liquid Colour: colourless Odour. odourless

Odour threshold: No data available

Melting point/freezing No data available

Boiling point or initial

No data available

boiling point and boiling

range:

point:

Flammability: not applicable Lower explosion limits: not determined Upper explosion limits: not determined Flash point: not applicable



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Auto-ignition not determined

temperature:

Decomposition not determined

temperature:

pH-Value: 10,7

Viscosity / kinematic:

Water solubility:

No data available

No data available

Solubility in other solvents

not determined

Dissolution rate:

Partition coefficient

No data available
not determined

n-octanol/water:

Dispersion stability:

Vapour pressure:

Vapour pressure:

No data available

Vapour pressure:

No data available

Density (at 20 °C):

Relative density:

No data available

Bulk density:

No data available

Relative vapour

No data available

not determined

density:

Particle No data available

characteristics:

# 9.2. Other information

#### Information with regard to physical hazard classes

Explosive properties

No data available

Sustaining combustion:

No data available

Self-ignition temperature

Solid: not applicable
Gas: not applicable

Oxidizing properties Not oxidising.

Other safety characteristics

Evaporation rate:

Solvent separation

No data available

No data available

test:

Solvent content:

Solid content:

No data available

Sublimation point:

No data available

No data available:

Viscosity / dynamic:

No data available

Flow time:

No data available

Further Information
No data available

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Corrosive to metals.





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#### 10.2. Chemical stability

No data available

#### 10.3. Possibility of hazardous reactions

Oxidising agent, strong

Acid

Aluminium

Zinc

Ammonium compounds

#### 10.4. Conditions to avoid

No data available

# 10.5. Incompatible materials

Metal

#### 10.6. Hazardous decomposition products

No known hazardous decomposition products.

#### **Further information**

No data available

# **SECTION 11: Toxicological information**

# 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

# Toxicocinetics, metabolism and distribution

There are no data available on the mixture itself.

#### **Acute toxicity**

Based on available data, the classification criteria are not met.

If swallowed danger of perforation of the esophagus and the stomach (strong corrosive effects).

Pulmonary oedema

Extremely damaging effect on the tissue of the mucous membranes and upper respiratory tract, as well as on the eyes and skin.

### **ATEmix calculated**

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l



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CAS No	Chemical name						
	Exposure route	Dose	Species	Source	Method		
1310-66 -3	Lithiumhydroxid-Monohydrat						
	oral	LD50 363 mg/kg	Mouse	Spravochnik po Toksikologii i Gigieniche	Only data from review article available.		
	dermal	LD50 > 2000 mg/kg	Rat	Study report (1994)	OECD Guideline 402		
	inhalation (4 h) dust/mist	LC50 > 6,15 mg/l	Rat	Study report (1999)	EPA OPPTS 870.1300		

#### Irritation and corrosivity

Skin corrosion/irritation: Causes severe skin burns and eye damage.

Serious eye damage/eye irritation: Causes serious eye damage.

Risk of serious damage to eyes.

# Sensitising effects

Based on available data, the classification criteria are not met.

#### Carcinogenic/mutagenic/toxic effects for reproduction

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification

criteria are not met.

Reproductive toxicity: Based on available data, the classification

criteria are not met.

#### STOT-single exposure

Based on available data, the classification criteria are not met.

#### STOT-repeated exposure

Based on available data, the classification criteria are not met.

#### **Aspiration hazard**

Based on available data, the classification criteria are not met.

There are no data available on the mixture itself.

#### Information on likely routes of exposure

There are no data available on the mixture itself.

# Specific effects in experiment on an animal

There are no data available on the mixture itself.

#### Additional information on tests

There are no data available on the mixture itself.

#### **Practical experience**

There are no data available on the mixture itself.

#### 11.2. Information on other hazards

#### **Endocrine disrupting properties**

There are no data available on the mixture itself.



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#### Other information

There are no data available on the mixture itself.

#### **Further information**

Dizziness

Gastrointestinal complaints

Vomiting

Cyanosis (blue coloured blood)

Dyspnoea

May cause damage to organs. (kidneys, thyroid gland, central

nervous system)

Extremely damaging effect on the tissue of the mucous membranes and

upper respiratory tract, as well as on the eyes and skin.

# **SECTION 12: Ecological information**

#### 12.1. Toxicity

Based on available data, the classification criteria are not met.

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h]	Species	Source	Method
1310-66 -3	Lithiumhydroxid-Monohydrat						
	Acute fish toxicity	LC50 mg/l	109	96 h	Danio rerio	Study report (2010)	OECD Guideline 203
	Acute algae toxicity	ErC50 mg/l	41,62		Pseudokirchn eriella subcapitata	Study report (2010)	OECD Guideline 201
	Fish toxicity	NOEC mg/l	17,35	34 d	Danio rerio	Study report (2012)	OECD Guideline 210
	Crustacea toxicity	NOEC mg/l	4		Daphnia magna	Study report (2010)	OECD Guideline 211
	Acute bacteria toxicity	EC50 mg/l ( )	180,8	3 h	activated sludge, domestic	Study report (2004)	EU Method C.11

# 12.2. Persistence and degradability

The methods for determining the biological degradability are not applicable to inorganic substances.

#### 12.3. Bioaccumulative potential

There are no data available on the mixture itself.

#### 12.4. Mobility in soil

There are no data available on the mixture itself.

#### 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.



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#### 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

#### 12.7. Other adverse effects

There are no data available on the mixture itself.

#### **Further information**

Do not allow to enter into surface water or drains. Discharge into the environment must be avoided.

# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

#### **Disposal recommendations**

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

Send to a physico-chemical treatment facility under observation of official regulations.

Do not allow to enter into surface water or drains.

#### Contaminated packaging

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

Handle contaminated packages in the same way as the substance itself.

#### **SECTION 14: Transport information**

Land transport (ADR/RID)	
14.1. UN number or ID	UN 2679

number:

14.2. UN proper LITHIUM HYDROXIDE SOLUTION

shipping name:

14.3. Transport hazard 8

class(es):

14.4. Packing group: Ш Hazard label: 8 Classification code: C5 Limited quantity: 1 L Excepted quantity: E2 Transport category: 2 Hazard No: 80 **Tunnel restriction** Ε code:

Inland waterways transport (ADN)

**14.1. UN number or ID** UN 2679

<u>number:</u>

14.2. UN proper LITHIUM HYDROXIDE SOLUTION

shipping name:

14.3. Transport hazard 8

class(es):



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14.4. Packing group: Ш Hazard label: 8 Classification code: C5 Limited quantity: 1 L Excepted quantity: E2

Marine transport (IMDG)

14.1. UN number or ID UN 2679

number:

14.2. UN proper LITHIUM HYDROXIDE SOLUTION

shipping name:

14.3. Transport hazard 8

class(es):

14.4. Packing group: Ш Hazard label: 8 **Special Provisions:** Limited quantity: 1 I Excepted quantity: F2 EmS: F-A, S-B

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID UN 2679

number:

14.2. UN proper LITHIUM HYDROXIDE SOLUTION

0.5 L

shipping name:

14.3. Transport hazard 8

class(es):

14.4. Packing group: Ш Hazard label: 8 **Special Provisions:** A3 A803 Limited quantity

Passenger:

Passenger LQ: Y840 Excepted quantity: E2

IATA-packing instructions -851

Passenger:

IATA-max. quantity - Passenger: 1 L IATA-packing instructions - Cargo: 855 IATA-max. quantity - Cargo: 30 L

14.5. Environmental hazards

**ENVIRONMENTALLY** No

HAZARDOUS:

14.6. Special precautions for user

Warning: strongly corrosive.

14.7. Maritime transport in bulk according to IMO instruments

not applicable

# **SECTION 15: Regulatory information**

#### 15.1. Safety, health and environmental regulations/legislation specific

for the substance or mixture

**EU** regulatory information



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Restrictions on use (REACH, annex XVII):

Entry 3

Information according to Directive 2012/18/EU

Not subject to 2012/18/EU (SEVESO III)

(SEVESO III):

**National regulatory information** 

**Employment** Observe restrictions to employment for restrictions: juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe

employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water hazard class (D): 1 - slightly hazardous to water

#### **SECTION 16: Other information**

#### Changes

This data sheet contains changes from the previous version in section(s): 9,12.

# Abbreviations and acronyms

Acute Tox: Acute toxicity Skin Corr: Skin corrosion Eye Dam: Eye damage

ADR: Accord européen sur le transport des marchandises dangereuses

par Route

(European Agreement concerning the International Carriage of

Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of

Chemicals

EINECS: European Inventory of Existing Commercial Chemical

Substances

**ELINCS: European List of Notified Chemical Substances** 

CAS: Chemical Abstracts Service LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

# Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

Classification	Classification procedure
Skin Corr. 1B; H314	Calculation method
Eye Dam. 1; H318	Calculation method

# Relevant H and EUH statements (number and full text)

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

#### **Further Information**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling





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of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

Provide appropriate information, instructions and training to users

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)