

according to Regulation (EC) No 1907/2006

Potassium hydroxide solution, 2 mol/l, 1 l

Print date: 14.04.2015

Product code: 9991437

Page 1 of 8

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

1.1. Product identifier

Potassium hydroxide solution, 2 mol/l, 1 l

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

Use of the substance/mixture

Laboratory chemicals

1.3. Details of the supplier of the safety data sheet

Seller		
Company name:	CONATEX-DIDACTIC Lehrmittel GmbH	
Street:	Im Forstgarten 1	
Place:	D-66459 Kirkel	
Internet:	www.conatex.com	
Supplier		
Company name:	Carbolution Chemicals GmbH	
Street:	Im Stadtwald, Gebäude A1.2	
Place:	D-66123 Saarbrücken	
Contact person:	Dr. Michael Bauer	Telephone: +49 (0)681 302-71232
e-mail:	michael.bauer@carbolution-chemicals.de	
Internet:	www.carbolution-chemicals.de	
1.4. Emergency telephone	+49 (0)681 302-71232	

number:

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Directive 67/548/EEC or 1999/45/EC

Indications of danger: C - Corrosive R phrases: Causes severe burns.

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Hazard categories:

Skin corrosion/irritation: Skin Corr. 1A Serious eye damage/eye irritation: Eye Dam. 1 Hazard Statements: Causes severe skin burns and eye damage.

2.2. Label elements

Hazardous components which must be listed on the label

caustic potasn, po	otassium nydroxide
Signal word:	Danger
Pictograms:	GHS05

Hazard statements

H314

Causes severe skin burns and eye damage.



according to Regulation (EC) No 1907/2006

	Potassium hydroxide solution, 2 mol/l, 1 l	
Print date: 14.04.2015	Product code: 9991437	Page 2 of 8
Precautionary statement	S	
P280	Wear protective gloves/protective clothing/eye protection/face protection.	
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.	

SECTION 3: Composition/information on ingredients

3.2. Mixtures

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]	
REACH No		
215-181-3	caustic potash, potassium hydroxide	10 - < 15 %
1310-58-3	C - Corrosive, Xn - Harmful R22-35	
019-002-00-8	Acute Tox. 4, Skin Corr. 1A; H302 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. Medical treatment necessary.

After contact with skin

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention.

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

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.



according to Regulation (EC) No 1907/2006

Potassium hydroxide solution, 2 mol/l, 1 l

Print date: 14.04.2015

Product code: 9991437

Page 3 of 8

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. 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

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). 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 gas/fumes/vapour/spray.

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
1310-58-3	Potassium hydroxide	-	-		TWA (8 h)	WEL
		-	2		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 gas/fumes/vapour/spray.

Protective and hygiene measures

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



Print date: 14.04.2015

Safety Data Sheet

Test method

according to Regulation (EC) No 1907/2006

Potassium hydroxide solution, 2 mol/l, 1 l

Product code: 9991437

Page 4 of 8

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

<u>9.</u>

).'	1. Information on basic physical and chei	nical properties	
	Physical state:	liquid	
	Colour:	colourless	
	Odour:	No data available	
	pH-Value:		No data available
	Changes in the physical state		
	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:		No data available
	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
	Evaporation rate:		No data available

Solvent separation test: Solvent content:

9.2. Other information

Solid content:

No data available

No data available No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.3. Possibility of hazardous reactions



according to Regulation (EC) No 1907/2006

Potassium hydroxide solution, 2 mol/l, 1 l

Print date: 14.04.2015	Product code: 9991437	Page 5 of 8
No data available		

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

CAS No	chemical name							
	Exposure routes	Method	Dose	Species	Source			
1310-58-3	caustic potash, potassium hydroxide							
	oral	LD50	273 mg/kg	Ratte				

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).

Practical experience

Observations relevant to classification

No data available

SECTION 12: Ecological information

12.1. Toxicity

CAS No	Chemical name							
	Aquatic toxicity	Method	Dose	[h] [d]	Species	Source		
1310-58-3	caustic potash, potassium hydroxide							
	Acute fish toxicity LC50 80 mg/l 96 h Gambusia affinis							

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential



according to Regulation (EC) No 1907/2006

Potassium hydroxide solution, 2 mol/l, 1 l

Print date: 14.04.2015

Product code: 9991437

Page 6 of 8

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

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

Water (with cleaning agent). Completely emptied packages can be recycled.

SECTION 14: Transport information

Land transport (ADR/RID)

<u>14.1. UN number:</u>	UN1814
14.2. UN proper shipping name:	POTASSIUM HYDROXIDE SOLUTION
14.3. Transport hazard class(es):	8
14.4. Packing group:	II
Hazard label:	8
Classification code:	C5
Limited quantity:	1 L
Transport category:	2
Hazard No:	80
Tunnel restriction code:	E
Other applicable information (land trans E2	port)
Inland waterways transport (ADN)	



according to Regulation (EC) No 1907/2006

Potassium hydroxide solution, 2 mol/l, 1 l						
Print date: 14.04.2015	Product code: 9991437	Page 7 of a				
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14.4. Packing group:	II					
Hazard label:	8					
Classification code:	C5					
Limited quantity:	1 L					
Other applicable information (inland wa E2	terways transport)					
Marine transport (IMDG)						
<u>14.1. UN number:</u>	UN1814					
14.2. UN proper shipping name:	POTASSIUM HYDROXIDE SOLUTION					
14.3. Transport hazard class(es):	8					
14.4. Packing group:	II					
Hazard label:	8					
Special Provisions:	-					
Limited quantity:						
EmS:	F-A, S-B					
Other applicable information (marine tra E2	ansport)					
Air transport (ICAO)						
<u>14.1. UN number:</u>	UN1814					
14.2. UN proper shipping name:	POTASSIUM HYDROXIDE SOLUTION					
14.3. Transport hazard class(es):	8					
<u>14.4. Packing group:</u>						
Hazard label:	8					
Special Provisions:	A3 A803					
Limited quantity Passenger:	0.5 L					
IATA-packing instructions - Passenger:	851					
IATA-max. quantity - Passenger:	1L					
IATA-packing instructions - Cargo:	855					
IATA-max. quantity - Cargo:	30 L					
Other applicable information (air transp E2	ort)					
: ¥840						
14.5. Environmental hazards						
ENVIRONMENTALLY HAZARDOUS:	no					
SECTION 15: Regulatory information						
	lations/legislation specific for the substance or mixture					
EU regulatory information						
Additional information						
	to Regulation (EC) No. 1907/2006 (REACH)					
National regulatory information						
Water contaminating class (D):	1 - slightly water contaminating					



according to Regulation (EC) No 1907/2006

Potassium hydroxide solution, 2 mol/l, 1 l

Print date: 14.04.2015

Product code: 9991437

Page 8 of 8

SECTION 16: Other information Relevant R-phrases (Number and full text) 22 Harmful if swallowed. 35 Causes severe burns. Relevant H- and EUH-phrases (Number and full text) H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage.

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