

according to Regulation (EC) No 1907/2006

Potassium hydroxide for analysis

Revision date: 11.03.2025

Product code: 06215

Page 1 of 11

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

1.1. Product identifier

Potassium hydroxide for analysis

REACH Registration Number:	01-2119487136-33-XXXX
CAS No:	1310-58-3
Index No:	019-002-00-8
EC No:	215-181-3

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).

.3. Details of the supplier of the safety data sheet
--

1.3. Details of the supplier of the saf	ety 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	
Contact person:	Abteilung Produktsicherheit	Telephone: 0203/5194-107/117
E-mail:	produktsicherheit@analytichem.de	
Internet:	www.analytichem.de	
Responsible Department:	Abteilung Produktsicherheit	
1.4. Emergency telephone	For Hazardous Materials [or Dangerous	Goods] Incidents Spill, Leak, Fire,
<u>number:</u>	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

No data available

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Met. Corr. 1; H290 Acute Tox. 4; H302 Skin Corr. 1A; H314 Eye Dam. 1; H318

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Pictograms:

Regulation (EC) No 1272/2008

Signal word:





according to Regulation (EC) No 1907/2006

Potassium hydroxide for analysis

Product code: 06215

Page 2 of 11

Hazard statements

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
Precautionary statemer	nts
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P311	IF exposed or concerned: Call a POISON CENTER/doctor.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.1. Substances

Sum formula:	КОН
Molecular weight:	56,11 g/mol

Relevant ingredients

CAS No	Chemical name			Quantity
	EC No Index No REACH No			
	Classification (Regulation (EC) No 1272/2008)			
1310-58-3	potassium hydroxide			100 %
	215-181-3 019-002-00-8 01-2119487136-33-XXXX			
	Met. Corr. 1, Acute Tox. 4, Skin Corr. 1A, Eye Dam. 1; H290 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. L	imits, M-factors and ATE	
1310-58-3	215-181-3	potassium hydroxide	100 %
oral: LD50 = 333 mg/kg Skin Corr. 1A; H314: >= 5 - 100 Skin Corr. 1B; H314: >= 2 - < 5 Skin Irrit. 2; H315: >= 0,5 - < 2 Eye Irrit. 2; H319: >= 0,5 - < 2			

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).

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.



according to Regulation (EC) No 1907/2006

Potassium hydroxide for analysis

Revision date: 11.03.2025

Product code: 06215

Page 3 of 11

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. Do NOT induce vomiting. 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

Skin corrosion/irritation
Dyspnoea
Cough
Circulatory collapse
Vomiting
Abdominal pain
Corneal opacity.
Risk of serious damage to eyes.

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.

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective 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

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Corrosive to metals.

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



according to Regulation (EC) No 1907/2006

Potassium hydroxide for analysis

Revision date: 11.03.2025

Product code: 06215

Page 4 of 11

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. Take up carefully when dry. Take up dust-free and set down dust-free.

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

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 dust. Avoid dust formation.

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

Hints on joint storage

national regulations

Further information on storage conditions

Store in a dry place. Keep container tightly closed. storage temperature +5°C - +30°C



according to Regulation (EC) No 1907/2006

Potassium hydroxide for analysis

Revision date: 11.03.2025

Product code: 06215

Page 5 of 11

7.3. Specific end use(s)

Laboratory chemicals

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

CAS No	Substance	ppm	mg/m³	fib/cm³	Category	Origin
1310-58-3	Potassium hydroxide	-	2		STEL (15 min)	

DNEL/DMEL values

CAS No	Substance		-	
DNEL type		Exposure route	Effect	Value
1310-58-3	potassium hydroxide			
Worker DNEL,	long-term	inhalation	local	1 mg/m³
Consumer DNE	EL, long-term	inhalation	local	1 mg/m³

8.2. Exposure controls

Appropriate engineering controls

Do not breathe dust. Avoid dust formation.

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

Suitable eye protection: goggles.

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Protective gloves are recommended Company KCL GmbH, D-36124 Eichenzell, email: vertrieb@kcl.de With specification (test according to EN374):

By long-term hand contact Trade name/designation: KCL 741 Dermatril® L Recommended material: NBR (Nitrile rubber) 0,11 mm Wearing time with permanent contact: > 480 min

By short-term hand contact Trade name/designation: 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



according to Regulation (EC) No 1907/2006

Potassium hydroxide for analysis

Revision date: 11.03.2025

Product code: 06215

Page 6 of 11

(e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Skin protection

Wear suitable protective clothing.

Respiratory protection

Respiratory protection necessary at: dust formation

Filtering device with filter or ventilator filtering device of type: P2

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.

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:	solid	
Colour:	colourless	
Odour:	odourless	
Odour threshold:	No data available	
Melting point/freezing point:		360 °C
Boiling point or initial boiling point and		1327 °C
boiling range:		
Flammability:		not applicable
Lower explosion limits:		not determined
Upper explosion limits:		not determined
Flash point:		not applicable
Auto-ignition temperature:		not determined
Decomposition temperature:		not determined
pH-Value (at 20 °C):		~ 14 (56 g/l)
Viscosity / kinematic:		No data available
Water solubility:		1130 g/l
(at 20 °C)		
Solubility in other solvents		
not determined		
Dissolution rate:		No data available
Partition coefficient n-octanol/water:		not determined
Dispersion stability:		No data available
Vapour pressure:		No data available
Vapour pressure:		No data available
Density (at 20 °C):		2,04 g/cm ³
Relative density:		No data available
Bulk density:		No data available
Relative vapour density:		not determined
Particle characteristics:		No data available
9.2. Other information		
Information with regard to physical h	nazard classes	
Explosive properties		
No data available		
Sustaining combustion:		No data available
Self-ignition temperature		
Solid:		not applicable
Gas:		not applicable
Oxidizing properties		
Not oxidising.		



according to Regulation (EC) No 1907/2006

Potassium	h١	vdroxide	for	analy	vsis
i otașșium	ш	yuioniue	101	anar	1313

Revision date: 11.03.2025

Product code: 06215

Page 7 of 11

Other safety characteristics	
Evaporation rate:	100%
Solvent separation test:	No data available
Solvent content:	No data available
Sublimation point:	No data available
Softening point:	No data available
Pour point:	No data available
No data available:	
Viscosity / dynamic:	No data available
Flow time:	No data available
Further Information	

Further Information

Corrosive to metals.

SECTION 10: Stability and reactivity

10.1. Reactivity

Corrosive to metals. Exothermic reaction with: Water

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Tetrahydrofurane, peroxides, for example hydrogen peroxide, Carbide, Chlorine Fluorine, aldehydes, Alcohols, Acetic acid Reducing agent, Acid chlorides, inorganic Methanol, Chloroform, Aluminium, Lead Copper, Zinc, Tin Acid, White/yellow phosphor, Hydrogen halide Alkaline earth metal, Light metal, Metal The product develops hydrogen in an aqueous solution in contact with metals.

10.4. Conditions to avoid

No data available

10.5. Incompatible materials

Metal Glass Keep away from: Metal. The product develops hydrogen in an aqueous solution in contact with metals.

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

No data available

Acute toxicity



according to Regulation (EC) No 1907/2006

Potassium hydroxide for analysis

Revision date: 11.03.2025

Product code: 06215

Page 8 of 11

Harmful if swallowed.

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

Pulmonary oedema Resorption (oral)

Mucous membrane irritation in the mouth, throat, esophagus and gastrointestinal tract.

	-	_				
	Exposure route	Dose		Species	Source	Method
1310-58-3	potassium hydroxide					
	oral	LD50 mg/kg	333		Fund. Appl. Toxicol., 8, 97-100 (1987)	OECD Guideline 425

Irritation and corrosivity

Skin corrosion/irritation: Causes severe skin burns and eye damage. Serious eye damage/eye irritation: Causes serious eye damage. Corneal opacity. Risk of serious damage to eyes.

Risk of senous damage to

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.

No data available

Information on likely routes of exposure

No data available

Specific effects in experiment on an animal

No data available

Additional information on tests

No data available

Practical experience No data available

11.2. Information on other hazards

Endocrine disrupting properties

No data available

Other information

No data available

Further information

Skin corrosion/irritation Dyspnoea Cough Circulatory collapse Vomiting Abdominal pain



according to Regulation (EC) No 1907/2006

Potassium hydroxide for analysis

Revision date: 11.03.2025

Product code: 06215

Page 9 of 11

SECTION 12: Ecological information

12.1. Toxicity

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

12.2. Persistence and degradability

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

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms.

12.7. Other adverse effects

No data available

Further information

Do not allow to enter into surface water or drains. Discharge into the environment must be avoided. Harmful effect due to pH shift. Forms corrosive mixtures with water even if diluted.

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

UN 1813
POTASSIUM HYDROXIDE, SOLID
8
II
8
C6
1 kg
E2
2
80
E
UN 1813
POTASSIUM HYDROXIDE, SOLID



according to Regulation (EC) No 1907/2006

-	5 5 ()			
Potassium hydroxide for analysis				
Revision date: 11.03.2025	Product code: 06215	Page 10 of 11		
14.3. Transport hazard class(es):	8			
14.4. Packing group:				
Hazard label:	8			
Classification code:	C6			
Limited quantity:	1 kg			
Excepted quantity:	E2			
Marine transport (IMDG)				
14.1. UN number or ID number:	UN 1813			
14.2. UN proper shipping name:	POTASSIUM HYDROXIDE, SOLID			
14.3. Transport hazard class(es):	8			
14.4. Packing group:				
Hazard label:	8			
	δ			
Special Provisions:	- 1 kg			
Limited quantity: Excepted quantity:	E2			
EmS:	E2 F-A, S-B			
Air transport (ICAO-TI/IATA-DGR)	UN 1813			
14.1. UN number or ID number:				
14.2. UN proper shipping name:	POTASSIUM HYDROXIDE, SOLID			
14.3. Transport hazard class(es):	8			
<u>14.4. Packing group:</u> Hazard label:				
	8 5 kg			
Limited quantity Passenger: Passenger LQ:	5 kg Y844			
Excepted quantity:	E2			
IATA-packing instructions - Passenger:	859			
IATA-max. quantity - Passenger:	15 kg			
IATA-packing instructions - Cargo:	863			
IATA-max. quantity - Cargo:	50 kg			
14.5. Environmental hazards				
ENVIRONMENTALLY HAZARDOUS:	Νο			
14.6. Special precautions for user Warning: strongly corrosive.				
14.7. Maritime transport in bulk according to	o IMO instruments			
not applicable				
SECTION 15: Regulatory information				
15.1. Safety, health and environmental regu	lations/legislation specific for the substance or mixture			
EU regulatory information				
Restrictions on use (REACH, annex XVII):				
Entry 75				
Information according to Directive	Not subject to 2012/18/EU (SEVESO III)			
2012/18/EU (SEVESO III):				
National regulatory information				
Employment restrictions:	Observe restrictions to employment for juveniles according to the 'juve	nile		
	work protection guideline' (94/33/EC). Observe employment restriction			
	under the Maternity Protection Directive (92/85/EEC) for expectant or	15		
	nursing mothers.			
Water hazard class (D):	1 - slightly hazardous to water			
	- originary hazardous to water			

SECTION 16: Other information



according to Regulation (EC) No 1907/2006

Potassium hydroxide for analysis

Revision date: 11.03.2025

Product code: 06215

Page 11 of 11

Changes

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

Abbreviations and acronyms

Met. Corr: Substance or mixture corrosive to metals

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%

Relevant H and EUH statements (number and full text)

H290 May be corrosive to metals.

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 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