according to Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU

Labor

Laboratoriumdiscounter

Potassium hydroxide ≥85 %, flakes

article number: KOH761 Version: **3.0 en**

Replaces version of: 2018-07-25

Version: (2)

date of compilation: 2015-06-01

. Revision: 2021-0**9**-0**9**

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

1.1 Product identifier

Identification of the substance

Article number

Registration number (REACH)

Index No

EC number

CAS number

Potassium hydroxide

KOH761

01-2119487136-33-xxxx

019-002-00-8

215-181-3

1310-58-3

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

Identified uses: laboratory chemical

laboratory and analytical use

1.3 Details of the supplier of the safety data sheet

Laboratoriumdiscounter Zandvoortstraat 75 1976BN Ijmuiden Nederland

Telephone: +31 (0) 255 700 210 e-mail: info@laboratoriumdiscounter.nl Website: www.laboratoriumdiscounter.nl

Competent person responsible for the safety data

sheet:

: Department Health, Safety and Environment

e-mail (competent person): Laboratorium discounter.nl

1.4 Emergency telephone number

Name	Street	Postal code/city	Telephone	Website
National Poisons In- formation Service City Hospital	Dudley Rd	B187QH Birmingham	844 892 0111	

Emergency information service +49/(0)8919240

SECTION 2: Hazards identification

2.1 Classification of the substance ormixture

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

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Classification acc. to GHS

Section	Hazard class	Hazard class and cat- egory	Hazard state- ment
2.16	substance or mixture corrosive to metals	(Met. Corr. 1)	H290
3.10	acute toxicity(oral)	(Acute Tox. 4)	H302
3.2	skin corrosion/irritation	(Skin Corr. 1A)	H314
3.3	serious eye damage/eyeirritation	(Eye Dam. 1)	H318

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)

Signal word Danger

Pictograms

GHS05, GHS07



Hazard statements

H290 May be corrosive to metals H302 Harmful if swallowed

H314 Causes severe skin burns and eye damage

Precautionary statements

Precautionary statements - prevention

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

Precautionary statements - response

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin

with water [orshower].

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 adoctor.

Labelling of packages where the contents do not exceed 125 ml

Signal word: Danger

Symbol(s)



H314 Causes severe skin burns and eye damage.

P280 Wear protective gloves/protective clothing/eye protection/face 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. Continuerinsing.
P310 Immediately call adoctor.

2.3 Other hazards

There is no additional information.

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SECTION 3: Composition/information on ingredients

3.1 Substances

Name of substance Potassium hydroxide

Index No 019-002-00-8

Registration number (REACH) 01-2119487136-33-xxxx

EC number 215-181-3

CAS number 1310-58-3

Molecular formula HKO

Molar mass 56.1 g/mol

SECTION 4: First aid measures

4.1 Description of first aid measures



General notes

Take off immediately all contaminated clothing. Self-protection of the first aider.

Following inhalation

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

Following skin contact

After contact with skin, wash immediately with plenty of water. Immediate medical treatment required because corrosive injuries that are not treated are hard to cure.

Following eye contact

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. Protect uninjured eye.

Following ingestion

Rinse mouth immediately and drink plenty of water. Rinse mouth with water (only if the person is conscious). Call a physician immediately. If swallowed danger of perforation of the esophagus and the stomach (strong corrosive effects). Call a doctor.

2. Most important symptoms and effects, both acute and delayed

After eye contact: Production of tissue damage in the eye, Risk of serious damage to eyes, Risk of blindness,

Following skin contact: Causes severe burns, Causes poorly healing wounds,

After ingestion: Corrosion, Vomiting, Gastric perforation,

Following inhalation: Cough, pain, choking, and breathing difficulties

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

none

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SECTION 5: Firefighting measures

5.1 Extinguishing media



Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings water spray, foam, dry extinguishing powder, carbon dioxide (CO₂)

Unsuitable extinguishing media

water jet

2. Special hazards arising from the substance or mixture

Non-combustible.

3. Advice for firefighters

Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus. Wear full chemical protective clothing.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures



For non-emergency personnel

Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. Do not breathe dust. Avoid contact with skin, eyes and clothes.

2. Environmental precautions

Keep away from drains, surface and ground water.

3. Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains.

Advice on how to clean up a spill

Take up mechanically. Control of dust.

Other information relating to spills and releases

Place in appropriate containers for disposal.

4. Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

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SECTION 7: Handling and storage

1. Precautions for safe handling

Handle and open container with care. Clear contaminated areas thoroughly.

Advice on general occupational hygiene

Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs.

Conditions for safe storage, including anyincompatibilities 2.

Store in a dry place. Keep container tightly closed. Keep only in the original container.

Incompatible substances or mixtures

Observe hints for combined storage.

Consideration of other advice

Ventilation requirements

Use local and general ventilation.

Specific designs for storage rooms or vessels

Recommended storage temperature: 15 - 25 °C.

Specific enduse(s) 3.

No information available.

SECTION 8: Exposurecontrols/personal protection

8.1 **Control parameters**

National limit values

Occupational exposure limit values (Workplace Exposure Limits)

Country	Name of agent	CAS No	Nota- tion	ldentifi- er	TWA [mg/ m³]	STEL [mg/ m³]	Ceil- ing-C [ppm]	Ceil- ing-C [mg/ m³]	Source
GB	potassium hydroxide	1310-58-3		WEL		2			EH40/2005

Notation

Ceiling-C Ceiling value is a limit value above which exposure should not occur

STEL Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-

TWA

minute period (unless otherwise specified)
Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8

hours time-weighted average (unless otherwise specified)

Relevant DNELs/DMELs/PNECs and other threshold levels

human health values

Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
DNEL	1 mg/m³	human, inhalatory	worker (industry)	chronic - local effects

8.2 **Exposure controls**

Individual protection measures (personal protective equipment)

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Eye/face protection





Use safety goggle with side protection. Wear face protection.

Skin protection





hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. 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. The times are approximate values from measurements at 22 °C and permanent contact. Increased temperatures due to heated substances, body heat etc. and a reduction of the effective layer thickness by stretching can lead to a considerable reduction of the breakthrough time. If in doubt, contact manufacturer. At an approx. 1.5 times larger/smaller layer thickness, the respective breakthrough time is doubled / halved. The data apply only to the pure substance. When transferred to substance mixtures, they may only be considered as a guide.

· type of material

NBR (Nitrile rubber)

material thickness

≥0,3 mm

· breakthrough times of the glove material

>480 minutes (permeation: level 6)

other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

Respiratory protection





Respiratory protection necessary at: Dust formation. Particulate filter device (EN 143). P2 (filters at least 94% of airborne particles, colour code: White).

Environmental exposure controls

Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state solid (acc. to product description)

Colour white

Odour odourless

Odourthreshold No data available

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Other physical and chemical parameters

pH (value) 14 (water: 50 ^g/_I, 20 °C)

Melting point/freezing point 406 °C

Initial boiling point and boiling range 1,327 °C at 1,013 hPa

Flash point not applicable
Evaporation rate no dataavailable

Flammability(solid, gas)

These information are not available

Explosive limits

lower explosion limit (LEL)
 upper explosion limit (UEL)
 this information is not available
 this information is not available
 these information are not available

Vapour pressure 0 hPa at 20 °C

0.13 hPa at 611 °C

Density $2.04 \, ^{9}/_{cm^{3}} at 20 \, ^{\circ}C$

Vapour density This information is not available.

Relative density Information on this property is not available.

Solubility(ies)

Water solubility 1,120 g/s at 20°C

Partition coefficient

n-octanol/water (log KOW)

This information is not available.

Auto-ignition temperature Information on this property is not available.

Decomposition temperature no data available

Viscosity not relevant (solid matter)

Explosive properties Shall not be classified as explosive

Oxidising properties none

9.2 Other information

There is no additional information.

SECTION 10: Stability and reactivity

1. Reactivity

Substance or mixture corrosive to metals.

2. Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure. Hygroscopicsolid.

3. Possibility of hazardous reactions

<u>Danger of explosion:</u> Tetrahydrofurane, Organic peroxides and self-reactive substances, Fluorine, Chlorine, Phosphorus, Magnesium, Nitro compound, <u>Violent reaction with:</u> Mineral acids, Organic acids, Strong acid, Sulphuric acid, Acids, Acid chlorides, inorganic, Aldehydes, Alcohols, Dangerous/

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dangerous reactions with: Aluminium, Azides

4. Conditions to avoid

There are no specific conditions known which have to be avoided.

5. Incompatible materials

different metals

6. Hazardous decomposition products

Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Exposure route	Endpoint	Value	Species	Source
oral	LD50	333 ^{mg} / _{kg}	rat	ECHA

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Skin corrosion/irritation

Causes severe burns.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Summary of evaluation of the CMR properties

Shall not be classified as germ cell mutagenic, carcinogenic nor as a reproductive toxicant

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeatedexposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

Symptoms related to the physical, chemical and toxicological characteristics

· If swallowed

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

• If in eyes

causes burns, Causes serious eye damage, risk of blindness

If inhaled

cough, pain, choking, and breathing difficulties

If on skin

causes severe burns, causes poorly healing wounds

Other information

None

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SECTION 12: Ecological information

1. Toxicity

acc. to 1272/2008/EC: Shall not be classified as hazardous to the aquatic environment.

2. Process of degradability

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

3. Bioaccumulative potential

Data are not available.

4. Mobility in soil

Data are not available.

5. Results of PBT and vPvBassessment

Data are not available.

6. Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods



This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

Sewage disposal-relevant information

Do not empty into drains.

Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used.

2. Relevant provisions relating towaste

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

3. Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions.

SECTION 14: Transport information

UN number

1813

2. UN proper shipping name

POTASSIUM HYDROXIDE, SOLID

Hazardous ingredients

Potassium hydroxide

3. Transport hazard class(es)



Class 8 (corrosive substances)

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8.



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4. Packing group II(substance presenting medium danger)

 $5. \qquad \textbf{Environmental hazards} \qquad \qquad \textbf{none} \, (\textbf{non-environmentally hazardous acc.} \, \textbf{to the danger-none} \, \textbf{none} \, (\textbf{non-environmentally hazardous acc.} \, \textbf{to the danger-none} \, \textbf{none} \, (\textbf{non-environmentally hazardous acc.} \, \textbf{to the danger-none} \, \textbf{none} \, \textbf{non$

ous goods regulations)

6. Special precautions for user

Provisions for dangerous goods (ADR) should be complied within the premises.

7. Transport in bulk according to Annex II of MARPOL and the IBC Code

The cargo is not intended to be carried in bulk.

Information for each of the UN Model Regulations

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

UN number 1813

Proper shipping name POTASSIUM HYDROXIDE, SOLID

Particulars in the transport document UN1813, POTASSIUM HYDROXIDE, SOLID, 8, II, (E)

Class

Classification code C6
Packing group II
Dangerlabel(s) 8



Excepted quantities (EQ) E2
Limited quantities (LQ) 1 kg
Transport category (TC) 2
Tunnel restriction code (TRC) E
Hazard identification No 80
Emergency Action Code 2W

International Maritime Dangerous Goods Code(IMDG)

UN number 1813

Proper shipping name POTASSIUM HYDROXIDE, SOLID

Particulars in the shipper's declaration UN1813, POTASSIUM HYDROXIDE, SOLID, 8, II

Class 8

Marine pollutant - Packing group II Danger label(s) 8

*

Special provisions (SP)

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Excepted quantities (EQ) E2

Limited quantities (LQ) 1 kg

EmS F-A, S-B

Stowage category A

Segregation group 18 - Alkalis

International Civil Aviation Organization (ICAO-IATA/DGR)

UN number 1813

Proper shipping name Potassium hydroxide, solid

Particulars in the shipper's declaration UN1813, Potassium hydroxide, solid, 8, II

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Class 8
Packing group II
Danger label(s) 8



Excepted quantities (EQ) E2
Limited quantities (LQ) 5 kg

SECTION 15: Regulatory information

- 1. Safety, health and environmental regulations/legislation specific for the substance or mixture Relevant provisions of the European Union (EU)
 - Regulation 649/2012/EU concerning the export and import of hazardous chemicals (PIC) Not listed.
 - Regulation 1005/2009/EC on substances that deplete the ozone layer (ODS)
 Not listed.
 - Regulation 850/2004/EC on persistent organic pollutants (POP)

Not listed.

· Restrictions according to REACH, Annex XVII

not listed

Name acc. to inventory	CAS No	Wt%	Listed in	Remarks
Substances and preparations, or the breakdown products of such, which have been proved to possess carcinogenic or mutagenic properties or properties which may affect steroidogenic, thyroid, reproduction or other endocrine-related functions in or via the aquaticenvironment		100	A)	
Biocides and plantprotection products		100	A)	

Legend

A) Indicative list of the main pollutants

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Restrictions according to REACH, Title VIII

None.

- List of substances subject to authorisation (REACH, Annex XIV)/SVHC candidate list not listed
- · Seveso Directive

2012/	2012/18/EU (Seveso III)				
No	Dangerous substance/hazard categories	Qualifying quantity (tonnes) for the ap- plication of lower and upper-tier re- quirements	Notes		
	not assigned				

•Directive 75/324/EEC relating to aerosol dispensers

Filling batch

Deco-Paint Directive (2004/42/EC)

VOC content	0% 0 ^g / _I
Directive on industrial emissions (VOCs, 2010/75	/EU)
VOC content	0 %
VOC content	0 g/I

Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) - Annex II

not listed

Regulation 166/2006/EC concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

not listed

Directive 2000/60/EC establishing a framework for Community action in the field of water policy (WFD)

Name acc. to inventory	CAS No	Listed in	Remarks
Substances and preparations, or the breakdown products of such, which have been proved to possess carcinogenic or mutagenic properties or properties which may affect steroidogenic, thyroid, reproduction or other endocrine-related functions in or via the aquatic environment		A)	
Biocides and plant protection products		A)	

Legend

A) Indicative list of the main pollutants

Regulation 98/2013/EU on the marketing and use of explosives precursors

not listed

Regulation 111/2005/EC laying down rules for the monitoring of trade between the Community and third countries in drug precursors

not listed

National inventories

Substance is listed in the following national inventories:

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Country	National inventories	Status
AU	AICS	substance is listed
CA	DSL	substance is listed
CN	IECSC	substance is listed
EU	ECSI	substance is listed
EU	REACH Reg.	substance is listed
JP	CSCL-ENCS	substance is listed
KR	KECI	substance is listed
MX	INSQ	substance is listed
NZ	NZIoC	substance is listed
PH	PICCS	substance is listed
TR	CICR	substance is listed
TW	TCSI	substance is listed
US	TSCA	substance is listed

Legend

AustralianInventoryofChemicalSubstances ChemicalInventoryandControlRegulation AICS CICR

List of Existing and New Chemical Substances (CSCL-ENCS) Domestic Substances List (DSL) **CSCL-ENCS**

DSL ECSI IECSC EC Substance Inventory (EINECS, ELINCS, NLP)

Inventory of Existing Chemical Substances Produced or Imported in China National Inventory of Chemical Substances
Korea Existing Chemicals Inventory
New Zealand Inventory of Chemicals INSQ KECI NZIOC

PICCS Philippine Inventory of Chemicals and Chemical Substances

REACH Reg. REACH registered substances **TaiwanChemicalSubstanceInventory** Toxic Substance Control Act

15.2 **Chemical Safety Assessment**

No Chemical Safety Assessment has been carried out for this substance.

SECTION 16: Other information

Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
2.2		Pictograms: change in the listing (table)	yes

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
ADN	Accordeuropéen relatif au transportinternational des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen relatif au transportinternational des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	ceiling value

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Abbr.	Descriptions of used abbreviations
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
CMR	Carcinogenic, Mutagenic or toxic for Reproduction
DGR	Dangerous Goods Regulations (see IATA/DGR)
DMEL	Derived Minimal Effect Level
DNEL	Derived No-Effect Level
EH40/2005	EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-licence/)
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
index No	the Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
LD50	Lethal Dose 50%: the LD50 corresponds to the dose of a tested substance causing 50% lethality during a specified time interval
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
STEL	short-term exposure limit
SVHC	Substance of Very High Concern
TWA	time-weighted average
VOC	Volatile Organic Compounds
vPvB	very Persistent and veryBioaccumulative
WEL	workplace exposure limit
-	-

Key literature references and sources for data

- Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU Regulation (EC) No. 1272/2008 (CLP, EU GHS)
 Dangerous Goods Regulations (DGR) for the air transport (IATA)

- International Maritime Dangerous Goods Code (IMDG)

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List of relevant phrases (code and full text as stated in chapter 2 and 3)

Code	Text
H290	may be corrosive to metals
H302	harmful if swallowed
H314	causes severe skin burns and eyedamage
H318	causes serious eye damage

Disclaimer

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.

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