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Safety data sheet according to 1907/2006/EC, Article 31

revised on: 09.09.2021

Version number 8

Creation Date: 20.01.2016

SECTION 1: Identification of the substance/mixture and of the company/undertaking
· 1.1 Product identifier
• Trade name: Potassium hydroxide conc. Volumetric solution 0.1 mol/l
 Article number: 1667 CAS Number: 1310-58-3 (Potassium hydroxide) Registration number 01-2119487136-33-XXXX (Potassium hydroxide) 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available. Application of the substance / the mixture Laboratory chemicals Reagent for analysis
 • 1.3 Details of the supplier of the safety data sheet • Manufacturer/Supplier: Th. Geyer GmbH & Co. KG Dornierstr. 4 – 6 D-71272 Renningen
Tel.: +49(0)7159-1637-0, Fax:+49 (0)7159/18417 www.thgeyer.de sicherheitsdatenblaetter@thgeyer.de
· Further information obtainable from: Product management department
• 1.4 Emergency telephone number: National Poisons Information Service (Birmingham Centre) City Hospital Dudley Road Birmingham B18 7QH Tel.:Emergency: (00 44) 87 06 00 62 66
SECTION 2: Hazards identification
 2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 GHS05 corrosion
Met. Corr.1 H290 May be corrosive to metals.
Skin Corr. 1A H314 Causes severe skin burns and eye damage.
Eye Dam. 1 H318 Causes serious eye damage.

- · 2.2 Label elements

• Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation.

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Trade name: Potassium hydroxide conc. Volumetric solution 0.1 mol/l

· Hazard pictograms	ge 1)
GHS05	
· Signal word Danger	
Hazard-determining components of labelling:	
potassium hydroxide · Hazard statements	
H290 May be corrosive to metals.	
H314 Causes severe skin burns and eye damage.	
· Precautionary statements	
P280 Wear protective gloves/protective clothing/eye protection/face protection.	
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with wa	or
or shower.	.01
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if	
present and easy to do. Continue rinsing.	
P390 Absorb spillage to prevent material damage. P501 Dispose of contents/container in accordance with local/regional/national/international	
regulations.	
· 2.3 Other hazards	
Results of PBT and vPvB assessment	
• PBT: Not applicable.	
· vPvB: Not applicable.	
SECTION 3: Composition/information on ingredients	
· 3.1 Substances	
· · · ·	
· 3.1 Substances · CAS No. Description	
· 3.1 Substances	
· 3.1 Substances · CAS No. Description - · 3.2 Mixtures	
 3.1 Substances CAS No. Description - 3.2 Mixtures Description: Mixture of substances listed below with nonhazardous additions. 	0%
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· After eye contact: Protect unharmed eye.	
Rinse opened eye for several minutes under running water. Then consult a doctor.	
After swallowing:	
Rinse out mouth and then drink plenty of water.	
Seek medical treatment. A person vomiting while laying on their back should be turned onto their side.	
· Information for doctor: Please observe safety data sheet/label.	
4.2 Most important symptoms and effects, both acute and delayed	
Gastric or intestinal disorders	
Cramp Nausea	
· Hazards Danger of gastric perforation.	
4.3 Indication of any immediate medical attention and special treatment needed	
Give Glucocorticoid-Aerosol in case of lung irritation.	
Symptomatic treatment.	_
SECTION 5: Firefighting measures	
5.1 Extinguishing media	
• Suitable extinguishing agents: Use fire extinguishing methods suitable to surroundin	ig conditions.
 For safety reasons unsuitable extinguishing agents: Water with full jet. 5.2 Special hazards arising from the substance or mixture 	
Under certain fire conditions, traces of other toxic gases cannot be excluded.	
5.3 Advice for firefighters	
· Protective equipment:	
Wear self-contained respiratory protective device. Do not inhale explosion gases or combustion gases.	
· Additional information	
Dispose of fire debris and contaminated fire fighting water in accordance with official re	
Prevent fire extinguishing water from contaminating surface water or the ground water	system.
SECTION 6: Accidental release measures	
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· 6.1 Personal precautions, protective equipment and emergency procedures	
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SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Keep away from heat and direct sunlight.

Apply the general protection and hygiene measures for the handling with chemicals.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

- · Information about fire and explosion protection: The product is not flammable.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles:

Store only in unopened original receptacles.

Store only in the original receptacle.

- · Information about storage in one common storage facility: Store away from water.
- · Further information about storage conditions: Keep container tightly sealed.

· Storage class: 8 B

• 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· Additional information about design of technical facilities: No further data; see item 7.

· Ingredients with limit values that require monitoring at the workplace:

CAS: 1310-58-3 potassium hydroxide

WEL Short-term value: 2 mg/m³

· Additional information: The lists valid during the making were used as basis.

· 8.2 Exposure controls

- Personal protective equipment:
- General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device. If air-purifying respiratory protection is required according to the risk assessment, wear a respirator with full-face mask with combination filter (US) or with filter type ABEK (EN 14387) filter cartridge. If the respirator is the only protective measure, an ambient air self-contained breathing apparatus with afull face mask must be worn. Respirators and components must be approved to appropriate government standards (for example, NIOSH (US) or CEN (EU)).Translated with www.DeepL.com/Translator (free version)

Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

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· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:



Safety glasses

Tightly sealed goggles · Body protection:



Protective work clothing (e. g. safety shoes EN ISO 20345, long-sleeved protective working garments).

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and c	chemical properties
General Information	
· Appearance:	
Form:	Fluid
Colour:	According to product specification
· Odour:	Characteristic
[·] pH-value at 20 °C:	>12
· Change in condition	
Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range	: Undetermined.
· Flash point:	Not applicable.
· Flammability (solid, gas):	Not applicable.
· Decomposition temperature:	Not determined.
· Auto-ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapour pressure:	Not determined.
· Density at 20 °C:	1.1–1.2 g/cm ³
•	Not determined.
· Relative density	Not determined.
· Vapour density	Not determined.
 Evaporation rate 	Not determined.
· Solubility in / Miscibility with	
water at 20 °C:	1120 g/l
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
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 Solvent content: VOC (EC)

0.00 %

• 9.2 Other information

No further relevant information available.

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

· 10.2 Chemical stability Stable with proper storage and handling.

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions

Reacts with acids.

Reacts with strong acids.

• 10.4 Conditions to avoid No further relevant information available.

• 10.5 Incompatible materials: Avoid contact with other chemicals.

· 10.6 Hazardous decomposition products:

In case of fire / burns, development of hazardous combustion gases or vapors possible.

Corrosive gases/vapours

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

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

· LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)

Oral LD50 >2,730-5,460 mg/kg (rat)

CAS: 1310-58-3 potassium hydroxide

Oral LD50 273 mg/kg (rat)

- Primary irritant effect:
- · Skin corrosion/irritation

Causes severe skin burns and eye damage.

• Serious eye damage/irritation

- Causes serious eye damage.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · Subacute to chronic toxicity: -
- · Additional toxicological information:
- · CMR effects (carcinogenity, mutagenicity and toxicity 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.

SECTION 12: Ecological information

· 12.1 Toxicity

- · Aquatic toxicity: No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.

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· Additional ecological information:

· General notes:

Must not reach sewage water or drainage ditch undiluted or unneutralised. Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

12.5 Results of PBT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.

· 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

Observe local (country-specific) regulations and laws

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

· Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system. Chemicals must be disposed of in compliance with the respective national regulations.

· European	waste catalogue
06 00 00	WASTES FROM INORGANIC CHEMICAL PROCESSES
06 02 00	wastes from the MFSU of bases
06 02 04*	sodium and potassium hydroxide
HP8	Corrosive

· Uncleaned packaging:

• Recommendation: Disposal must be made according to official regulations.

• Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport information		
· 14.1 UN-Number · ADR, IMDG, IATA	UN1814	
· 14.2 UN proper shipping name · ADR · IMDG, IATA	1814 POTASSIUM HYDROXIDE SOLUTION POTASSIUM HYDROXIDE SOLUTION	
· 14.3 Transport hazard class(es)		
· ADR		
A A A A A A A A A A A A A A A A A A A		
Class	8 (C5) Corrosive substances.	
·Label	8	
· IMDG, IATA		
No. 200		
· Class	8 Corrosive substances.	
· Label	8	
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 14.4 Packing group ADR, IATA 	11
· 14.5 Environmental hazards:	Not applicable.
 14.6 Special precautions for user EMS Number: Segregation groups 	Warning: Corrosive substances. F-A,S-B Alkalis
 14.7 Transport in bulk according to Anne Marpol and the IBC Code 	ex II of Not applicable.
· Transport/Additional information:	
 ADR Limited quantities (LQ) Excepted quantities (EQ) 	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
 Transport category Tunnel restriction code 	2 E
· UN "Model Regulation":	UN 1814 POTASSIUM HYDROXIDE SOLUTION, 8, II

SECTION 15: Regulatory information

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

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I None of the ingredients is listed.

• REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

 DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

· REGULATION (EU) 2019/1148

 Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

· National regulations:

· Information about limitation of use:

Employment restrictions concerning juveniles must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

• 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Application, use and handling of our products take place out of our control and are solely your responsibility.

· Relevant phrases

H290 May be corrosive to metals.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

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Department issuing SDS: Product management	
Contact: Product management	
Abbreviations and acronyms:	
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Cor	ncerning the
International Carriage of Dangerous Goods by Road)	5
IMDG: International Maritime Code for Dangerous Goods	
IATA: International Air Transport Association	
GHS: Globally Harmonised 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 (division of the American Chemical Society)	
VOC: Volatile Organic Compounds (USA, EU)	
LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent	
PBT: Persistent, Bioaccumulative and Toxic	
vPvB: very Persistent and very Bioaccumulative	
Met. Corr.1: Corrosive to metals – Category 1	
Acute Tox. 4: Acute toxicity – Category 4	
Skin Corr. 1A: Skin corrosion/irritation – Category 1A	
Eye Dam. 1: Serious eye damage/eye irritation – Category 1	
* Data compared to the previous version altered.	