

\* Chemtec KOH (Potassium hydroxide flakes)

Date revised: 28.04.2018

Print date: 06.12.18

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

### **1.1. Product identifier**

#### **Trade name**

Chemtec KOH (Potassium hydroxide flakes)  
REACH-Registration no. 01-2119487136-33-XXXX

#### **Use of the substance/mixture**

Cleaning additive

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

#### **Identified Uses**

At the moment we have no information available for the identified uses. In the presence of these data will be included in the safety data sheet.

#### **Uses advised against**

There are no uses have been identified, advised against.

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

#### **Address**

Chemtec Chemicals GmbH  
August-Siemsen-Straße 13  
21521 Dassendorf / Germany  
phone. +49 4104 91897-99  
e-mail. info@ctc-chemtec.de  
Information provided Department product safety  
by / telephone

### **1.4. Emergency telephone number**

Medical Emergency information in case of poisoning: Poison Information Center Mainz – 24h –  
Phone: +49 (0) 6131 19240 (*advisory service in German or English language*)

## **SECTION 2: Hazards identification**

### **2.1. Classification of the substance or mixture**

#### **Classification (Regulation (EC) No. 1272/2008)**

Met. Corr. 1	H290
Acute Tox. 4	H302
Skin Corr. 1A	H314

### **2.2. Label elements**

Labelling according to regulation (EC) No 1272/2008

#### **Hazard pictograms**



#### **Signal word**

Danger

#### **Hazard statements**

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H290 May be corrosive to metals.  
 H302 Harmful if swallowed.  
 H314 Causes severe skin burns and eye damage.

**Precautionary statements**

P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
 P310 Immediately call a POISON CENTER or doctor.  
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/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.

**2.3. Other hazards****PBT and vPvB**

You find the results of PBT and vPvB assessment in section 12.

**SECTION 3: Composition/information on ingredients****3.1. Substances****Hazardous ingredients****Potassium hydroxide**

CAS No.	1310-58-3			
EINECS no.	215-181-3			
REACH-Registration no.	01-2119487136-33-XXXX			
Concentration		>=	50	%
Acute Tox. 4	H302			
Skin Corr. 1A	H314			

Complete text of H-phrases in Chapter 16.

**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

Remove soiled or soaked clothing immediately, do not allow to dry. Take affected person to fresh air. If the patient is likely to become unconscious, place and transport in stable sideways position.

**After inhalation**

Ensure supply of fresh air. In the event of symptoms take medical treatment.

**After skin contact**

Wash immediately with plenty of water for several minutes. Take off contaminated clothing and wash before reuse. Summon a doctor immediately.

**After eye contact**

Separate eyelids, wash the eyes thoroughly with water (15 min.). Summon a doctor immediately.

**After ingestion**

Rinse out mouth and give plenty of water to drink. Do not induce vomiting. Summon a doctor immediately.

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

Causes burns.

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**4.3. Indication of any immediate medical attention and special treatment needed**

Treat symptomatically

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Product itself is non-combustible; adapt fire extinguishing measures to surrounding areas.

**Non suitable extinguishing media**

None known

**5.2. Special hazards arising from the substance or mixture**

Reactions with metals, with evolution of hydrogen.

**5.3. Advice for firefighters**

Use self-contained breathing apparatus. Wear protective clothing.

Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Use personal protective clothing. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Use breathing apparatus if exposed to vapours/dust/aerosol.

**6.2. Environmental precautions**

Do not allow to enter drains or waterways. Do not discharge into the subsoil/soil. At penetration into waters or sewer notify the authority. At penetration into the ground notify the authority.

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

Pick up mechanically. When picked up, treat material as prescribed under Section 13 "Disposal".

**6.4. Reference to other sections**

Information regarding personal protective measures, see Section 8. Information regarding waste disposal, see Section 13.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

Keep container tightly closed. Provide good ventilation of working area (local exhaust ventilation if necessary). Avoid dust formation. When diluting, always stir product into water.

Take off immediately all contaminated clothing. Avoid contact with skin and eyes. Keep separated from food-stuffs and feed-stocks. At work do not eat, drink, smoke or take drugs. Wash hands before breaks and after work.

**Advice on protection against fire and explosion**

The product is not combustible. Reactions with metals, with evolution of hydrogen.

**7.2. Conditions for safe storage, including any incompatibilities**

Provide alkali-resistant floor. Use containers made of Polyethylene. Do not use aluminium containers. Do not use zinc containers.

Do not store with combustible materials. Keep away from water. Do not store together with: Acids, Oxidising agents, Metals

storage category TRGS 510

8 B

Not combustible corrosive hazardous substances

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Keep container tightly closed and dry in a cool, well-ventilated place. Product is hygroscopic.

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

No information available.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Derived No/Minimal Effect Levels (DNEL/DMEL)****Potassium hydroxide****DNEL**

Conditions	Worker	Long term	inhalative	Local effects
Concentration	1	mg/m <sup>3</sup>		

**DNEL**

Conditions	General Population	Long term	inhalative	Local effects
Concentration	1	mg/m <sup>3</sup>		

**8.2. Exposure controls****Respiratory protection**

Use breathing apparatus in dust-laden atmosphere. Short term: filter apparatus, Filter P3

**Hand protection**

Appropriate Material	Chloroprene		
Material thickness	>= 0,6	mm	
Breakthrough time	>= 480	min	

**Eye protection**

Tightly fitting safety glasses

**Body protection**

Alkali-resistant protective clothing

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties****Appearance**

Form	solid
Colour	white

<b>Odour</b>	odourless
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**Odour threshold**

Remarks	No data available
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**pH value**

Value	>	14	
Concentration/H <sub>2</sub> O		100	g/l
Temperature		20	°C

**Melting point/freezing point**

Value	appr.	410	°C
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**Initial boiling point and boiling range**

Value		1320	°C
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**Flash point**

Remarks	Not applicable
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**Evaporation rate**

Remarks No data available

**Flammability (solid, gas)**

Not ignitable

**Upper/lower flammability or explosive limits**

Remarks Not applicable

**Vapour pressure**

Remarks Not applicable

**Vapour density**

Remarks No data available

**Relative density**

Value	2,1		g/cm <sup>3</sup>
Temperature	20	°C	

**Solubility(ies)**

Medium	Water		
Value	appr. 1150		g/l
Temperature	20	°C	

**Partition coefficient: n-octanol/water**

Remarks Not applicable

**Auto-ignition temperature**

Remarks No data available

**Decomposition temperature**

Remarks Not applicable

**Viscosity**

Remarks Not applicable

**Explosive properties**

Remarks This product is not potentially explosive.

**Oxidising properties**

evaluation None known

**9.2. Other information**

No additional information available.

**SECTION 10: Stability and reactivity****10.1. Reactivity**

Corrosive to metals.

**10.2. Chemical stability**

Protect against wetness.

**10.3. Possibility of hazardous reactions**

Reactions with metals, with evolution of hydrogen. Corrodes metals in the presence of water or moisture. Violent and explosive reaction with water.

**10.4. Conditions to avoid**

Protect from atmospheric moisture and water.

**10.5. Incompatible materials**

Addition of water leads to increase in temperature. Strong exothermic reaction with acids. Product reacts with: Halogens, metals, Oxidising agents

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**10.6. Hazardous decomposition products**

No hazardous decomposition products known.

**SECTION 11: Toxicological information****11.1. Information on toxicological effects**

Strong caustic effect in the mouth and throat and danger of perforation of the esophagus and stomach.

**Acute oral toxicity (Components)****Potassium hydroxide**

Species	rat (male)				
LD50	333	to	388	mg/kg	

**Skin corrosion/irritation**

Species	rabbit
evaluation	strongly corrosive

**Serious eye damage/irritation**

Species	rabbit eye
evaluation	strongly corrosive

Risk of serious damage to eyes.

**Sensitization**

Species	guinea pig
evaluation	non-sensitizing

**Mutagenicity**

No data available

**Carcinogenicity**

No data available

**Reproductive toxicity**

No data available

**Specific Target Organ Toxicity (STOT)****Single exposure**

No data available

**Repeated exposure**

No data available

**Aspiration hazard**

No information available.

**SECTION 12: Ecological information****12.1. Toxicity**

Harmful effect due to pH shift.

**12.2. Persistence and degradability****Biodegradability**

Remarks Not applicable

**12.3. Bioaccumulative potential****Partition coefficient: n-octanol/water**

Remarks Not applicable

**Bioconcentration factor (BCF)**

Remarks No data available

**12.4. Mobility in soil**

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Light adsorption.

**12.5. Results of PBT and vPvB assessment****Evaluation of persistence and bioaccumulation potential**

The Substance do not meets PBT-criterions. The Substance do not meets vPvB-criterions.

**12.6. Other adverse effects****Behaviour in sewers [waste treatment plants]**

The product is an alkaline solution. Neutralization is normally necessary before a waste water is discharged into sewage treatment plants.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations for the product**

Allocation of a waste code number, according to the European Waste Catalogue (EWC), should be carried out in agreement with the regional waste disposal company.

**Disposal recommendations for packaging**

Packaging that cannot be cleaned should be disposed off as product waste.

**SECTION 14: Transport information****Land transport ADR/RID**

14.1. UN number	1813
14.2. UN proper shipping name	POTASSIUM HYDROXIDE, SOLID
14.3. Transport hazard class(es)	8
Label	8
14.4. Packing group	II
14.5. Environmental hazards	-
Tunnel restriction code	E
14.6. Special precautions for user	No information available.
14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	No information available.

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

The product is classified and labelled in accordance with EC directives/the relevant national laws.

**SVHC**

The product does not contain substances of very high concern (SVHC).

**15.2. Chemical safety assessment**

For this substance a chemical safety assessment has been carried out.

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## **SECTION 16: Other information**

### **Hazard statements listed in Chapter 3**

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

### **Supplemental information**

Relevant changes compared with the previous version of the safety data sheet are marked with: \*\*\*

This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.