

\* Chemtec NaOH (Sodium hydroxide)

Date revised: 28.04.2018

Print date: 03.12.18

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

### **1.1. Product identifier**

#### **Trade name**

Chemtec NaOH (Sodium hydroxide)  
REACH-Registration no. 01-2119457892-27-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)**

Skin Corr. 1A H314  
Met. Corr. 1 H290

### **2.2. Label elements**

#### **Labelling according to regulation (EC) No 1272/2008**

#### **Hazard pictograms**



#### **Signal word**

Danger

#### **Hazard statements**

H290 May be corrosive to metals.  
H314 Causes severe skin burns and eye damage.

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**Precautionary statements**

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
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 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.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P310	Immediately call a POISON CENTER or doctor.

Labelling in accordance with EC directives 1999/45/EC and 67/548/EEC

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

CAS No.	1310-73-2
EINECS no.	215-185-5
REACH-Registration no.	01-2119457892-27-XXXX
Concentration	>= 99 %
Skin Corr. 1A	H314
Met. Corr. 1	H290

Complete text of H-phrases in Chapter 16.

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

Remove affected person from danger area, lay him down. Remove contaminated, soaked clothing immediately and dispose of safely. Irregular breathing/no breathing: artificial respiration. If the patient is likely to become unconscious, place and transport in stable sideways position.

**After inhalation**

Remove the casualty into fresh air and keep him calm. Summon a doctor immediately.

**After skin contact**

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

**After eye contact**

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. 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**

The following symptoms may occur: Coughing, Nausea, Vomiting, Abdominal pains, Causes burns. Causes serious eye irritation.

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

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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**

Full water jet, Carbon dioxide

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

In case of combustion evolution of dangerous gases possible. Reacts violently with water. Reactions with metals, with evolution of hydrogen.

### **5.3. Advice for firefighters**

Use self-contained breathing apparatus. Wear protective clothing.

Collect contaminated fire-fighting water separately, must not be discharged into the drains.

## **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.

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

Pick up mechanically. Avoid raising dust. 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. Handle and open container with care. 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. Do not breathe dust.

#### **Advice on protection against fire and explosion**

No special measures required.

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

Do not use metal containers. Use containers made of Polyethylene.

Do not store together with: Acids, Halogenated hydrocarbons

storage category TRGS 510

8 B

Not combustible corrosive hazardous substances

Keep container in a cool, well-ventilated place. Store in a dry place. Product is hygroscopic.

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

No information available.

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## **SECTION 8: Exposure controls/personal protection**

### **8.1. Control parameters**

#### **Derived No/Minimal Effect Levels (DNEL/DMEL)**

##### **Sodium hydroxide**

Conditions	Worker	Long term	inhalative	Local effects
Concentration	1		mg/m <sup>3</sup>	
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 P2

#### **Hand protection**

Appropriate Material	nitrile		
Material thickness	>=	0,4	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	Flakes
Colour	white

#### **Odour**

Form	Lumps
Form	Beads

#### **Odour threshold**

Remarks	No data available
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#### **pH value**

Value	14	
Temperature	20	°C

#### **Melting point/freezing point**

Value	319	°C
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#### **Initial boiling point and boiling range**

Value	1390	°C
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#### **Flash point**

Remarks	Not applicable
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#### **Evaporation rate**

Remarks	No data available
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#### **Flammability (solid, gas)**

Not ignitable

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**Upper/lower flammability or explosive limits**

Remarks No data available

**Vapour pressure**Value 3,5 hPa  
Temperature 800 °C**Vapour density**

Remarks No data available

**Relative density**Value 2,13 g/cm<sup>3</sup>  
Temperature 20 °C**Bulk density**Value appr. 1,14 g/cm<sup>3</sup>  
Temperature 20 °C**Solubility(ies)**Medium Water  
Value 1090 g/l  
Temperature 20 °C**Partition coefficient: n-octanol/water**

Remarks Not applicable

**Auto-ignition temperature**

Remarks not determined

**Decomposition temperature**

Remarks No data available

**Viscosity**

Remarks Not applicable

**Explosive properties**

Remarks This product is not potentially explosive.

**Oxidising properties**

evaluation not oxidizing

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

Exotherms reaction. Corrosive to metals.

**10.2. Chemical stability**

Under normal conditions of storage and use is the product stable.

**10.3. Possibility of hazardous reactions**

Reactions with metals, with evolution of hydrogen. Strong exothermic reaction with acids. Reacts violently with water.

**10.4. Conditions to avoid**

Protect from atmospheric moisture and water.

**10.5. Incompatible materials**

Product reacts with: Aluminium, Zinc, tin, Acids, Nitriles, Cyanide, Ammonium compounds, Nitro compounds, Reducing agents

**10.6. Hazardous decomposition products**

Hydrogen, Corrosive gases/vapours

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## **SECTION 11: Toxicological information**

### **11.1. Information on toxicological effects**

#### **Acute oral toxicity (Components)**

##### **Sodium hydroxide**

Species	rat		
LD50	500		mg/kg

#### **Skin corrosion/irritation**

evaluation strongly corrosive

#### **Serious eye damage/irritation**

evaluation strongly corrosive

#### **Sensitization**

No sensitizing effect known.

#### **Mutagenicity**

No indications of genotoxicity are available.

#### **Carcinogenicity**

Indications of possible carcinogenic effects are not available.

#### **Reproductive toxicity**

No indications of reproduction toxicity are available.

#### **Specific Target Organ Toxicity (STOT)**

##### **Single exposure**

No data available

##### **Repeated exposure**

No data available

#### **Aspiration hazard**

No information available.

#### **Other information**

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

## **SECTION 12: Ecological information**

Do not discharge into the drains/surface waters/groundwater. The product is an alkaline solution. Neutralization is normally necessary before a waste water is discharged into sewage treatment plants.

### **12.1. Toxicity**

Harmful effect due to pH shift.

#### **Fish toxicity (Components)**

##### **Sodium hydroxide**

Species	rainbow trout ( <i>Oncorhynchus mykiss</i> )		
LC50	45,4		mg/l
Duration of exposure	96	h	
Species	goldfish ( <i>Carassius auratus</i> )		
LC50	160		mg/l
Duration of exposure	24	h	
Species	golden orfe ( <i>Leuciscus idus</i> )		
LC50	189		mg/l
Duration of exposure	48	h	
Species	<i>Gambusia affinis</i>		
LC50	125		mg/l
Duration of exposure	24	h	

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**Daphnia toxicity (Components)****Sodium hydroxide**

Species	Daphnia magna			
EC50	40	to	240	mg/l

**Bacteria toxicity (Components)****Sodium hydroxide**

Species	Photobacterium phosphoreum			
EC50	22			mg/l
Duration of exposure	15	min		

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

evaluation	not degradable
Remarks	Inorganic product, cannot be eliminated from the water by biological purification processes.

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

Remarks	Not applicable
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**12.4. Mobility in soil**

Mobile in soils	
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**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 in agreement with the regional waste disposal company.

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

14.1. UN number	1823
14.2. UN proper shipping name	SODIUM HYDROXIDE, SOLID
14.3. Transport hazard class(es)	8
Label	8
14.4. Packing group	II
14.5. Environmental hazards	-
Tunnel restriction code	E

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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.

## **SECTION 16: Other information**

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

H290 May be corrosive to metals.

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.