

# POCH Safety Data Sheet

According to EC Directive 2001/58/CE. Creation date / last update: 2002-10-15 / 2007-03-15

## 1. Identification of the substance/preparation and of the company/undertaking

### **SODIUM HYDROXIDE**

Catalogue Numbers: *pure-810925429; pure p. a.-810925112; technical-810925991; -THG000018;*

Use of the substance / preparation: *for analysis, chemical reagent, for synthesis*

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## 2. Hazard identification

*Causes severe burns.*



## 3. Composition/information on ingredients

Synonyms: *caustic soda*

CAS-No.: *1310-73-2*

Molecular mass: *40*

Molecular formula: *NaOH*

WE Number: *215-185-5*

EC-Index No.: *011-002-00-6*

## 4. First aid measures

*After eye contact: rinse out with plenty of water for at least 10 minutes with the eyelid held wide open. Immediately call in ophthalmologist.*

*After skin contact: wash off with plenty of water. Dab with polyethylene glycol 400. Immediately take off contaminated clothing.*

*After swallowing: make victim drink plenty of water. Avoid vomiting (risk of perforation). Do not attempt to neutralize. Immediately summon doctor.*

*After inhalation: fresh air. Consult doctor if victim feeling unwell.*

## 5. Fire-fighting measures

Suitable extinguishing media: *CO<sub>2</sub>, powder*

Special risk: *no further requirements*

Special protective equipment for fire fighting:

Other information: *non-combustible*

Prevent fire-fighting water from entering surface water or groundwater. Cool container with spray water from a safe distance.

Contain escaping vapours with water.

## 6. Accidental release measures

*Take up dry. Forward for disposal. Clean up affected area. Avoid generation of dusts, do not inhale dusts. Render harmless: neutralize with dilute sulfuric acid.*

## SODIUM HYDROXIDE

### 7. Handling and storage

Handling: *Use with adequate ventilation. Use of the basic principles of Industrial Hygiene. Use according to good industry practice. Work under hood. Do not inhale substance. Do not empty into sewerage system. Use protective equipment according to p.8. Avoid skin contact.*

Storage: *tightly closed. Dry place. Keep away from acids. Do not use containers made of aluminium, zink and tin. At +15 to +25 deg C.*

### 8. Exposure controls/personal protection

Specific control parameter: *max. workplace conc.: 0,5 mg/m<sup>3</sup>, peak limit: 1 mg/m<sup>3</sup>*

*Provide exhaust ventilation. Ensure the eye wash station and safety showers. Protective equipment should be selected for the working place, depending on concentration and quantity of the hazardous product handled. The resistance of the protective clothing to chemicals should be ascertained with respective supplier.*

Personal protective equipment:

respiratory protection: *required when dusts are generated - respiratory protection*

eye protection: *required - safety goggles.*

hand protection: *required - protective clothing.*

body protection: *required - protective clothing.*

industrial hygiene: *immediately change contaminated clothing. Apply skin - protective barrier cream. Wash hands and face after working with substance.*



### 9. Physical and chemical properties

Form: *solid*

Colour: *white*

Odour: *odourless*

pH value: *~ 14 (50 g/l H<sub>2</sub>O, 20°C)*

Melting point: *324°C*

Boiling point: *1390°C*

Ignition temperature: *not applicable*

Flash point: *not applicable*

Explosion limit: *not applicable*

lower:

upper:

dynamic viscosity:

kinematical viscosity:

Vapour pressure: *not available*

Density: *2,13 g/cm<sup>3</sup> (20°C)*

Bulk density: *not available*

Solubility:

in water: *1090 g/l (20°C), 3350 g/l (100°C)*

in organic solvents: *not available*

log P(w/o):

## SODIUM HYDROXIDE

### 10. Stability and reactivity

Conditions to be avoided: *no further requirements*

Substances to be avoided: *metals, light metals (formed could be: hydrogen, risk of explosion), acids, nitryl, powdered alkaline earth metals, ammonium compounds, cyanides, magnesium, phenoles, organic nitrocompounds, organic combustibles substances, oxidizing agents.*

Hazardous decomposition products: *no information available*

Other information: *hygroscopic*

### 11. Toxicological information

Toxicological information: *Quantitative data on the toxicity of this product are not available.*

Other information: *after swallowing: burns of mouth, throat, pharynx, oesophagus, gastrointestinal tract. Risk of perforation of stomach and gastrointestinal tract. Collapse, death. After eye contact: burns, necrosis. Risk of blindness! After skin contact: burns, necrosis.*

### 12. Ecological information

*No biodegradable. Harmful effect on Fish i plankton. Harmful effect due to pH shift. Do not allow to enter waters, waste water or soil! Concentration in organisms is not to be expected. Toxicity: Fish: Onchorhynchus mykiss LC50: 45,4 mg/l/96h, L. macrochirus LC50: 99 mg/l/48h; Daphnia: Daphnia magna EC50: 76 mg/l/24h.*

### 13. Disposal considerations

*POCh product packaging must be disposed of in compliance with the country-specific regulations or must be passed to a packaging return system. Handle contaminated packing in the same way as the substrate itself. Always contact a permitted waste disposal to assure compliance with all current local, state and federal regulations.*

### 14. Transport information

ADR Class and package group: *8,II*

UN Number: *1823*

Name (acc. to UN): *sodium hydroxide (soild)*

### 15. Regulatory information

*Labelling according to EC Directives.*

Symbol: *C; Corrosive.*

R-phrases: *35; Causes severe burns.*

S-phrases: *26-36/37/39-45; In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Wear suitable protective clothing, gloves and eye/face protection.*

*EC label.*

### 16. Other information

*Reason for alteration: general update.*

*Informations contained in this SDS while accurate to the best knowledge*