

**WTW Safety Data Sheet**  
According to EC Directives 91/155/EEC

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

*Product name:*

**Solution for Sample Preparation 10 mol/l NaOH**

**Ord. No.: 150 130**  
**Model: MZ/NH<sub>3</sub>/CN**

*Manufacturer:*

WTW Wissenschaftlich-Technische Werkstätten GmbH, Dr.-Karl-Slevogt-Straße 1, D-82362 Weilheim, Germany  
Tel.: +49(0)881 183-0, Fax.: +49(0)881 183-420

Emergency telephone:  
(001)-703-527-3887

**2. Composition/information on ingredients**

*Chemical characterization:* Sodium hydroxide solution

*Hazardous ingredients:* Sodium hydroxide

*Hazard symbols:* Corrosive (C)  
*R-phrases:* 35  
*Content:* 30 %  
*CAS-No.:* 1310-73-2  
*EINECS-No.:* 215-185-5  
*EG-No.:* 215-185-5

**3. Hazards identification**

Causes severe burns.

**4. First aid measures**

*After inhalation:* Fresh air. Summon doctor.  
*After skin contact:* Wash off with plenty of water.  
Immediately remove contaminated clothing.  
*After eye contact:* Rinse out with plenty of water with the eyelid held wide open. Immediately summon eye specialist.  
*After ingestion:* Make injured person drink plenty of water. Avoid vomiting (risk of perforation). Immediately summon doctor.  
Do not attempt to neutralize.

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#### 5. Fire-fighting measures

<i>Suitable extinguishing media:</i>	To suit environment.
<i>Unsuitable extinguishing media:</i>	No information available
<i>Special risks:</i>	Hydrogen may form upon contact with light metals. Danger of explosion. Ambient fire may liberate hazardous vapours. Do not stay in dangerous zone without chemical protection clothing and selfcontained breathing apparatus.
<i>Other information:</i>	Non combustible

#### 6. Accidental release measures

<i>Personal-related precautionary measures:</i>	Do not inhale vapours/aerosols
<i>Environmental-protection measures:</i>	Do not allow to enter sewerage system
<i>Procedures for cleaning/absorption:</i>	Take up with liquid-absorbent material. Forward for disposal. Clean up affected area with water. Use protective glasses and gloves.

#### 7. Handling and storage

<i>Handling:</i>	No further requirements
<i>Storage:</i>	Store tightly closed. No aluminium, tin, or zinc container.

#### 8. Exposure control/personal protection

<i>Specific control parameters:</i>	MAK-value (Germany): 2 mg/m <sup>3</sup> total dust.
Personal protective equipment	
<i>Respiratory protection:</i>	Required when vapours/aerosols are generated.
<i>Eye protection:</i>	Protective glasses
<i>Hand protection:</i>	Gloves (nitrile rubber)
<i>Industrial hygiene:</i>	Wash hands and face after working with solution. Immediately remove contaminated clothing. Use suitable protective clothing.

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#### 9. Physical and chemical properties

<i>Form:</i> Liquid	<i>Colour:</i> Colourless	<i>Odour:</i> Odourless
<i>pH-value</i>	> 14 at 20°C	
<i>Melting temperature:</i>	°C	
<i>Boiling temperature:</i>	°C	
<i>Ignition temperature:</i>	°C	
<i>Flash point:</i>	°C	
<i>Explosion limite lower:</i>	/	
<i>                          upper:</i>	/	
<i>Density:</i>	1,33 g/cm <sup>3</sup>	
<i>Solubility in water:</i>	miscible	
<i>Thermal decomposition:</i>	/	

#### 10. Stability and reactivity

<i>Conditions to be avoided:</i>	No information available
<i>Substances to be avoided:</i>	Metals, light metals: Formation of hydrogen. Risk of explosion. Ammonium compounds: Formation of ammonia. Acids.
<i>Hazardous decomposition products:</i>	None
<i>Further information:</i>	None

#### 11. Toxicological information

<i>Acute toxicity:</i>	LDLo oral: 400 mg/kg (calculated on the pure substance) Toxicologic values are not available due to other dangerous properties of the substance.
<i>Further toxicological information:</i>	After skin contact: burns and necrosis. After eye contact: burns, necrosis, risk of blindness! After ingestion: burns of mouth, mucous membrane, and oesophagus. Risk of perforation in the oesophagus and stomach. Systemic effect: collapse, death.

#### 12. Ecological information

<i>Ecotoxic effects:</i>	Toxic effect on fish and plankton. Harmful effect due to pH-shift. Death of fish possible. Neutralization possible in waste water tretment plants.
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#### 13. Disposal considerations

- Products:* There are no uniform regulations for the disposal of chemicals or residues. The disposal is regulated through corresponding regional laws and regulations. We recommend that you contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose the special waste.
- Packaging:* Handle contaminated packaging in the same way as the substance itself. If not officially specified differently, noncontaminated packaging may be treated like household waste or recycled.

#### 14. Transport information

- ADR/GGVSE:* UN 1824 Natriumhydroxidlösung, 8 II
- IMDG/GGVSee:* UN 1824 Sodium hydroxide solution, 8 II  
EmS-No.: F-A, S-B
- ICAO/IATA:* UN 1824 Sodium hydroxide solution, 8 II
- Further information:* None

#### 15. Regulatory information

Labelling according to EC directives

- Symbol:* Corrosive (C)  
*R-phrases:* 35 Causes severe burns.  
*S-phrases:* 26-36/37/39-45 In case of contact with eyes rinse out immediately with plenty of water and seek medical advice.  
Wear suitable protective clothing, gloves and eye face protection.  
In case of accident or if you feel unwell, seek medical advice immediately. (Show the label where possible.)

German regulations

- Water pollution class;* WGK: 1 Slightly polluting substance  
*Storage class VCI:* 8 B  
*Regulation on combustible liquids;* VbF: Non combustible  
*Other regulations:* None

#### 16. Other information

- Date of issue: 15.07.2006  
Supersedes edition of 12.02.2004  
Reason for alteration: General update

The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.