

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

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

*Product name:*

**Sodalime with indicator (granules ~ 1 – 2.5 mm)**

**Ord. No.: 209 142**  
**Model: NKI 500**

*Manufacturer:*

WTW Wissenschaftlich-Technische Werkstätten GmbH, Dr.-Karl-Slevogt-Straße 1, D-82362 Weilheim, Germany

Tel.: +49 881 183-0 Fax.: +49 881 183-420

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

**2. Composition/information on ingredients**

*Chemical characterization:* Preparation contains inorganic and organic compounds

*Hazardous ingredients:* Calcium hydroxide and sodium hydroxide

*Calcium hydroxide*

*Hazard symbols:* irritant (Xi)  
*R-phrases:* 41  
*Content:* ≥ 25 - < 50 %  
*CAS-No.:* 1305-62-0  
*EG-No.:* 215-137-3  
*EG-Index-No.:* /

*Sodium hydroxide*

*Hazard symbols:* corrosive (C)  
*R-Phrases:* 35  
*Content:* ≥ 2 - < 5 %  
*CAS-No.:* 1310-73-2  
*EG-No.:* 215-185-5  
*EG-Index-No.:* 011-002-00-6

**3. Hazards identification**

Causes 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 (if necessary several litres), avoid vomiting (risk of perforation). Immediately call a doctor. Do not attempt to neutralize.

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#### 5. Fire-fighting measures

<i>Suitable extinguishing media:</i>	In adaption to materials stored in the immediate neighbourhood.
<i>Unsuitable extinguishing media:</i>	Do not use water causes formation of strong corrosive Cautic soda solution.
<i>Special risks:</i>	Hydrogen may form upon contact with light metals. Danger of explosion. Development of hazardous vapours possible in the event of fire.
<i>Other information:</i>	Non combustible. Use chemical protection clothing and Selfcontained breathing apparatus in the event of fire.

#### 6. Accidental release measures

<i>Personal-related precautionary measures:</i>	Avoid inhalation and generation of dusts. Avoid substance contact.
<i>Environmental-protection measures:</i>	Do not allow to enter sewerage system.
<i>Procedures for cleaning/absorption:</i>	Carefully take up dry. Foreward for disposal. Clean up affected area with water. Use protectetive glasses and gloves.

#### 7. Handling and storage

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

#### 8. Exposure control/personal protection

<i>Specific control parameters:</i>	MAK-value (Germany) for sodium hydroxide: 2 mg/m <sup>3</sup> total dust.
Personal protective equipment	
<i>Respiratory protection:</i>	Required when dusts are generatad.
<i>Eye protection:</i>	Protective glasses
<i>Hand protection:</i>	Gloves
<i>Industrial hygiene:</i>	Wash hands and face after working with solution. Immediately change contaminated clothing.

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## 9. Physical and chemical properties

<i>Form:</i> Solid	<i>Colour:</i> White to grey	<i>Odour:</i> Odourless
<i>pH-value</i>	at 25°C strong alkaline	
<i>Melting temperature:</i>	not available	
<i>Boiling temperature:</i>	not available	
<i>Ignition temperature:</i>	not available	
<i>Flash point:</i>	not available	
<i>Explosion limite lower:</i>	/	
<i>                                  upper:</i>	/	
<i>Density:</i>	/	
<i>Solubility in water:</i>	not present	
<i>Thermal decomposition:</i>	not available	

## 10. Stability and reactivity

<i>Conditions to be avoided:</i>	no information available
<i>Substances to be avoided:</i>	violent reaction possible with acids.
<i>Hazardous decomposition products:</i>	no information available
<i>Further information:</i>	sensitive to moisture, incompatible with Various metals and metal alloys.

## 11. Toxicological information

<i>Acute toxicity:</i>	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, oesophagus and stomach. 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 treatment 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 1907 Natronkalk, 8, III

*IMDG/GGVSee:* UN 1907 SODALIME, 8, III  
Ems F-A S-B

*ICAO/IATA:* SODALIME, 8, UN 1907, III

*Further information:* None

#### 15. Regulatory information

Labelling according to EC directives

*Symbol:* Corrosive (C)

*R-phrases:* 34 Causes burns

*S-phrases:* 26-36/37/39-45 In case of contact with eyes, rinse 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 applicable

*Other regulations:* The employment restrictions for young workers in accordance with section 22 of the Youth Employment Protection Law (JArbSchG) are to be observed

#### 16. Other information

Date of issue: 12.04.2005

Supersedes edition of first edition

Reason for alteration: no alteration

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.