



## SAFETY DATA SHEET

Date of issue: 29/12/00

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

#### *Identification of the product*

Catalogue No: 30167

ID No.: 1025200

Product name: **Sodium hydroxide pellets GPR**

Use of the substance/preparation: General chemical reagent

#### *Manufacturer/supplier identification*

Company: VWR International Ltd  
Hunter Boulevard, Magna Park, Lutterworth, Leicestershire, England, LE17 4XN  
Telephone : + 44 (0) 1455 558600      Telefax : + 44 (0) 1455 558586

Emergency telephone No.: + 44 (0) 1202 669700

### 2. Composition/information on ingredients

#### *Chemical characterization*

Alkali

Product name: Sodium hydroxide

CAS number: 1310-73-2

EC-No.: 215-185-5

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

Molecular formula: NaOH = 40. g/mol

### 3. Hazards identification

Causes severe burns.

### 4. First aid measures

- Eye contact: Irrigate thoroughly with water for at least 10 minutes. OBTAIN MEDICAL ATTENTION.
- Inhalation: Remove from exposure, rest and keep warm. In severe cases obtain medical attention.
- Skin contact: Wash off skin thoroughly with water. Remove contaminated clothing and wash before re-use. Unless contact has been slight, OBTAIN MEDICAL ATTENTION.
- Ingestion: Wash out mouth thoroughly with water and give plenty of water to drink. OBTAIN MEDICAL ATTENTION.

### 5. Fire-fighting measures

#### *Special risks:*

Not combustible. Hydrogen may form upon contact with light metals (danger of explosion!).

#### *Suitable extinguishing media:*

To suit environment.

## 6. Accidental release measures

Wear appropriate protective clothing.

Carefully take up dry. Forward for disposal. Clean up affected area.

## 7. Handling and storage

### *Handling:*

Avoid generation of dusts. Change contaminated clothing. Application of skin- protective barrier cream recommended. Wash hands after working with substance. Do not empty into drains.

Unsuitable working materials: aluminium, brass, tin, zinc.

### *Storage:*

Store at room temperature (15 to 25°C recommended). Keep well closed and protected from direct sunlight and moisture.

## 8. Exposure controls/personal protection

### *UK Exposure Limits:*

WEL - Sodium hydroxide:  
Short term: 2 mg/m<sup>3</sup>

### *Personal protective equipment:*

As appropriate to the situation and the quantity handled. Engineering methods to control or prevent exposure are preferred. Methods could include process enclosure or mechanical ventilation.

- Respirator: Dust respirator
- Ventilation: Extraction hood
- Gloves: Rubber or plastic
- Eye Protection: Goggles or face-shield
- Other Precautions: Plastic apron, sleeves, boots - if handling large quantities

## 9. Physical and chemical properties

### *General information:*

Form:	solid
Colour:	white
Odour:	odourless

### *Health, safety and environmental information:*

Melting temperature	318°C
Boiling temperature	1390°C
Density(g/ml)	2.12

Vapour pressure		1 mm Hg, 739°C
Solubility in water		Very soluble
pH value		14 (Solution in water, 50 g/l, 20°C)
Flash point		Not applicable
Flammability:		Not combustible.
Explosion limits:	lower:	Not applicable

## 10. Stability and reactivity

sensitive to air, sensitive to moisture.

Substances to be avoided

aluminium, zinc, tin (Formation of: hydrogen); acids, nitriles, alkaline earth metals in powder form, ammonium compounds, cyanides, magnesium, organic nitro compounds, organic combustible substances, phenols.

The possibility of reaction with other substances cannot be excluded.

## 11. Toxicological information

Strongly corrosive substance.

- After inhalation: burns of mucous membranes.
- After skin contact: Burns.
- After eye contact: Burns. Risk of blindness!
- After ingestion: Risk of perforation in the oesophagus and stomach.

### *Further data*

No data

We have no evidence of carcinogenic effects. We have no evidence of mutagenic or teratogenic effects.

## 12. Ecological information

Harmful effect due to pH shift. A harmful effect on aquatic organisms cannot be excluded in the event of improper handling or disposal. Neutralize prior to passing into drainage system.

## 13. Disposal considerations

Chemical residues are generally classified as hazardous or special waste, and as such are covered by regulations which vary according to location. Contact your local waste disposal authority for advice, or pass to a chemical disposal company. Rinse out empty containers thoroughly before returning for recycling.

## 14. Transport information

UN-No.: 1823

Class: 8

Packaging group: II

Proper shipping name: SODIUM HYDROXIDE,SOLID

## 15. Regulatory information

### *Labelling according to EC directives*

Symbol(s): C Corrosive.

R-phrases: R35

Causes severe burns.

S-phrases: S26-37/39-45

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable gloves, and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

EC-No.: 215-185-5

### ***Local Regulations***

U.K. Transport Category 2

Within the UK, the use of this material must be assessed under the Control of Substances Hazardous to Health (COSHH) regulations.

### **16. Other information**

Revision.

Supersedes issue of 18/08/94

Changes in Section : 9, 10

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