



SAFETY DATA SHEET

Date of issue: 09/06/05

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

Identification of the product

Catalogue No: 29628

ID No.: 1021000

Product name: **Potassium 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: Potassium hydroxide

CAS number: 1310-58-3

EC-No.: 215-181-3

EC Index No.: 019-002-00-8

Molecular formula: KOH = 56.11 g/mol

3. Hazards identification

Harmful if swallowed. 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.

Suitable extinguishing media:

To suit environment.

6. Accidental release measures

Wear appropriate protective clothing.

Mix with sand, transfer carefully to container and arrange removal by disposal company. Wash site of spillage thoroughly with water and detergent.

For large spillages liquids should be contained with sand or earth and both liquids and solids transferred to salvage containers. Any residues should be treated as for small spillages.

7. Handling and storage

Handling:

Wear appropriate protective clothing. Do not breathe dust. Avoid contact with skin and eyes. Wash hands and face after working with substance. Immediately change contaminated clothing. Keep away from acids.

Use appropriate containment to avoid environmental contamination.

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 - Potassium hydroxide:

Short term: 2 mg/m³

Personal protective equipment:

Engineering methods to control or prevent exposure are preferred. Methods could include process enclosure or mechanical ventilation.

As appropriate to the situation and the quantity handled.

- Respirator: Dust respirator required when dusts are generated.

- Ventilation: Extraction hood

- Gloves: Rubber or plastic. Gloves subject to permeation or any sign of degradation must be removed and replaced immediately.

- Eye Protection: Goggles or face-shield

- Other Precautions: Plastic apron, sleeves, boots - if handling large quantities

9. Physical and chemical properties

General information:

Form:	pellets / powder
Colour:	colourless to white
Odour:	odourless

Health, safety and environmental information:

Melting temperature	360°C
Boiling temperature	1320°C

Density(g/ml)	2.0
Vapour pressure	1mmHg, 719°C
Solubility in water	Very soluble
pH value	14 (50g/l H ₂ O)
Flammability:	Not combustible.

10. Stability and reactivity

sensitive to air, sensitive to moisture, exothermic dissolution process with water.

Substances to be avoided

light metals (Formation of: hydrogen), ammonium compounds, alkaline earth metals, halogens, halogen-halogen compounds, halogenated hydrocarbons, nonmetallic oxyhalides, halogen oxides, organic nitro compounds, phosphorus, nonmetallic oxides, hydrocarbons, anhydrides, strong acids (risk of explosion!).

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

LD50 273 mg/kg oral, rat.

12. Ecological information

Adverse ecological effects cannot be excluded in the event of improper handling or disposal. Harmful effect due to pH shift. Caustic even in diluted form.

Remarks:

Adverse ecological effects cannot be excluded in the event of improper handling or disposal.

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.

neutralize with diluted hydrochloric acid

14. Transport information

UN-No.: 1813

Class: 8

Packaging group: II

Proper shipping name: POTASSIUM HYDROXIDE,SOLID

15. Regulatory information

Labelling according to EC directives

Symbol(s): C Corrosive.

R-phrases: R22-35

Harmful if swallowed. Causes severe burns.

S-phrases: S26-36/37/39-45

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).

EC-No.: 215-181-3

Local Regulations

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 edition of: 14/07/99

Reason for alteration: Changes in Section : 6

Date of issue: 09/06/05

Date of print: 19/10/05