



S a f e t y   D a t a   S h e e t  
According to Regulation (EC) 1907/2006  
and (EU) 453/2010

**1517 Potassium Hydroxide 1 mol/l \*(1N)**

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

**1.1 Product identifier**

Name:

Potassium Hydroxide 1 mol/l \*(1N)

**CAS:** [1310-58-3]

**REACH Registration Number:** A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) N° 1907/2006, the annual tonnage does not require a registration, the registration is envisaged for a later registration deadline or it is a mixture.

**1.2 Relevant identified uses of the substance or mixture:**

For laboratory utilisation, analysis, research and fine chemistry.

**1.3 Identification of the company or firm:**

PANREAC QUIMICA S.L.U.

C/Garraf 2

Polígono Pla de la Bruguera

E-08211 Castellar del Vallès

(Barcelona) Spain

Tel. (+34) 937 489 400

e-mail: [product.safety@panreac.com](mailto:product.safety@panreac.com)

**1.4 Emergency telephone:**

Single telephone number for emergency calls: 112 (EU)

Tel.: (+34) 937 489 499

**2. Identification of dangers**

**2.1 Classification of the substance or the mixture.**

**Classification Regulation (CE) n° 1272/2008.**

Skin Corr. 1A

**Classification (67/548/CEE or 1999/45/CE).**

**C** Corrosive

R35

## **2.2 Label elements:**

### **Hazard Pictograms**



### **Signal word**

Danger

### **Hazard statements**

H314 Causes severe skin burns and eye damage.

### **Precautionary statements**

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash...thoroughly after handling.

P280 Wear protective gloves, protective clothing, eye protection or face protection.

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P501 Dispose of contents/container according to Directive 94/62/CE or 2008/98/CE.

For the full text of the R-phrases mentioned in this section, see section 16.

## **2.3 Other hazards:**

No further relevant information available.

## **3. Composition/information on ingredients**

Aqueous solution

Name: Potassium Hydroxide 1 mol/l \*(1N)

Formula: KOH M.= 56,11 CAS [1310-58-3]

EC number (EINECS): 215-181-3

EC index number: 019-002-00-8

## COMPOSITION:

### 0001: Potassium Hydroxide 90% \*flakes

Formula: KOH M.= 56,11 CAS [1310-58-3]

EC number (EINECS): 215-181-3

EC index number: 019-002-00-8

REACH Registration Number: 01-2119487136-33-XXXX

**Content:**  $\geq 5\%$   $\leq 10\%$

### Classification Regulation (CE) n° 1272/2008.

Acute Tox. 4

Skin Corr. 1A

### Hazard Pictograms



### Signal word

Danger

### Hazard statements

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

### Precautionary statements

P264 Wash...thoroughly after handling.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves, protective clothing, eye protection or face protection.

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/physician.

P321 Specific treatment (see on this label).

P330 Rinse mouth.

P338 Remove contact lenses, if present and easy to do. Continue rinsing.

P363 Wash contaminated clothing before reuse.

P405 Store locked up.

P501 Dispose of contents/container according to Directive 94/62/CE or 2008/98/CE.

**Classification (67/548/CEE or 1999/45/CE).**

**C** Corrosive

**R35** Causes severe burns.

**R22** Harmful if swallowed.

## **4. First aid measures**

### **4.1 General indications:**

Never provide drink or induce vomiting in the event of loss of consciousness.

### **4.2 Inhaling:**

Take the person out into the fresh air. In the event sickness persists, seek medical assistance.

### **4.3 Contact with the skin:**

Wash with plenty of water. Remove contaminated clothing. Take the product out with cotton wool soaked in polyethylene-glycol 400. In the event of irritation, seek medical assistance.

### **4.4 Eyes:**

Wash with plenty of water (for at least 15 minutes), keeping eyelids open. Seek immediate medical assistance.

### **4.5 Swallowing:**

Drink large amounts of water. Avoid vomiting (there is a risk of perforation). Seek immediate medical assistance. Do not neutralize.

## **5. Firefighting measures**

### **5.1 Suitable extinguishing media:**

As appropriate to the environment.

### **5.2 Unsuitable extinguishing media:**

No specific data.

### **5.3 Special hazards arising from the substance or mixture:**

Incombustible. Upon contact with metals, hydrogen gas may form (there is a risk of explosion).

### **5.4 Advice for firefighters:**

Suitable clothing and footwear.

## **6. Accidental release measures**

### **6.1 Personal precautions, protective equipment and emergency procedures:**

Do not inhale the fumes. Avoid contact with the skin, eyes or clothing.

### **6.2 Environmental precautions:**

Do not allow it to enter the drainage system. Avoid pollution of the soil, water supplies and drains.

### **6.3 Methods and material for containment and cleaning up:**

Collect up with absorbent materials (Panreac General Absorbent, Kieselguhr, etc.) or, if none available, dry sand or earth, and deposit in waste containers for subsequent elimination in accordance with current legislation. Neutralize with diluted sulphuric acid.

## **7. Handling and storage**

### **7.1 Precautions for safe handling:**

No special indications.

### **7.2 Conditions for safe storage, including any incompatibilities:**

Well sealed containers. Dry atmosphere.

**Recommended storage temperature:** Room temperature. Do not store in metal containers.

## **8. Exposure controls/personal protection**

### **8.1 Exposure controls:**

No special indications.

### **8.2 Control parameters:**

VLA-EC(KOH): 2 mg/m<sup>3</sup>

### **8.3 Respiratory protection:**

In the event of fumes forming/aerosols, use suitable respiratory protection.

### **8.4 Hand protection:**

Use suitable gloves

### **8.5 Eye/face protection:**

Use suitable goggles.

### **8.6 Individual hygiene measures:**

Remove contaminated clothing. Use suitable work clothing. Wash hands and face before breaks and when the job is done.

### **8.7 Environmental exposure controls:**

Fulfill the commitments under local environmental protection legislation.

## **9. Physical and chemical properties**

Appearance: liquid

Colour: Colourless

Granulometry: N/A

Odour: Odourless.

pH: ~14

Melting point/freezing point: N/A

Initial boiling point and boiling range:

N/A

Flash point:

N/A

Flammability (solid, gas):

N/A

Upper/lower flammability or explosive limits:

N/A

Vapour pressure: N/A

Vapour density: N/A  
Relative density:

Insertar Aquí Grupo de repetición

(20/4) 1,042 g/ml

Solubility: Miscible with water

Partition coefficient: n-octanol/water:

N/A

Auto-ignition temperature:

N/A

Decomposition temperature: N/A

Kinematic viscosity: N/A

Dynamic viscosity:

N/A

## **10. Stability and reactivity**

### **10.1 Conditions to avoid:**

The product is chemically stable under standard ambient conditions (room temperature).

### **10.2 Incompatible materials:**

Metals. Light metals Formation of hydrogen (risk of explosion) Alkali-earth metals (powder). Ammoniacal compounds Nitrogen organic compounds. Organic compounds. Glass.

### **10.3 Hazardous decomposition products:**

No specific data.

### **10.4 Chemical stability:**

No specific data.

## **11. Toxicological information**

### **11.1 Acute toxicity:**

LD50 oral rat : 273 mg/kg referred to the pure substance

### **11.2 Dangerous effects for health:**

If inhaled: burns Upon contact with the skin: burns Through contact with the eyes: burns Risk of blindness (irreversible injury of the optic nerve) If swallowed: Burns in the oesophagus and stomach. Risk of aspiration upon vomiting. Other dangerous characteristics are not discarded. Take the usual precautions for handling chemical products.

## **12. Environmental information**

### **12.1 Toxicity:**

#### **- EC50 test (mg/l):**

Water organisms 10 mg/l

Classification:

Extr. toxic

#### **- Receptor medium:**

Risk for the water environment

Medium

Risk for the land environment

Low

#### **- Observations:**

The ecotoxicity is due to the pH deviation.

### **12.2 Persistence and Degradability :**

#### **- Test:**

#### **- Biotic degradation classification:**

BOD5/COD

Biodegradability

#### **- Abiotic degradation depending on pH:**

#### **- Observations:**

### **12.3 Bioaccumulative potential:**

#### **- Test:**

#### **- Bioaccumulation:**

Risk

#### **- Observations:**

### **12.4 Mobility in soil :**

Data not available.

### **12.5 Assessment PBT and MPMB :**

Data not available.

### **12.6 Other adverse effects:**

The treatment is neutralization.

Highly purifiable.

Do not allow it to enter soils or water channels.

Corrosive product, even in diluted form.

## **13. Disposal considerations**

### **13.1 Waste treatment methods:**

In the European Union, there are no homogeneous standards established for elimination of chemical waste, which is waste of a special nature, and treatment and elimination of same is subject to the domestic legislation in each country.

In view of this, in each case, you should contact the competent authority or those companies legally authorized for elimination of waste.

2001/573/EC: Council Decision of 23 July 2001 amending Commission Decision

2000/532/EC as regards the list of wastes. Council Directive 91/156/EEC of 18

March 1991 amending Directive 75/442/EEC on waste.

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### 13.2 Contaminated containers:

Contaminated containers and packaging of dangerous substances or preparations must be treated in the same manner as the actual products contained in them. European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste.

## 14. Transport information

Overland (ADR):

Technical name: POTASSIUM HYDROXIDE SOLUTION

UN 1814 Class: 8 Packaging group: II (E)

By sea (IMDG):

Technical name: POTASSIUM HYDROXIDE SOLUTION

UN 1814 Class: 8 Packaging group: II

By air (ICAI-IATA):

Technical name: Potassium hydroxide solution

UN 1814 Class: 8 Packaging group: II

Packaging instructions: CAO 855 PAX 851

## 15. Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

## 16. Other information

### Other precautionary statements

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/physician.

P321 Specific treatment (see on this label).

P338 Remove contact lenses, if present and easy to do. Continue rinsing.

P363 Wash contaminated clothing before reuse.

P405 Store locked up.

### Labelling (65/548/CEE or 1999/45/CE)

R-pharse(s): **R35** Causes severe burns.

S-pharse(s): **S45** In case of accident or if you feel unwell, seek medical advice immediately (show the lable where possible).

**S37/39** Wear suitable gloves and eye/face protection.

**S26** In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.



Version and revision date : 4 15.09.2011

Date published: 15.09.2011

In respect of the previous review, changes have been made to the following sections: 15

The information included in this Safety Data Sheet is based on our most up-to-date knowledge, and is solely intended to inform regarding aspects of safety; the properties and characteristics indicated herein are not guaranteed.