



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

3336 Potassium Hydroxide 0,1 mol/l *(0,1N) in 2-propanol

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

1.1 Product identifier

Name:

Potassium Hydroxide 0,1 mol/l *(0,1N) in 2-propanol

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

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.

Flam. Liq. 2

Eye Irrit. 2

STOT SE 3

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

Xi Irritant
F Highly flammable

R67
R36
R11

2.2 Label elements:

Hazard Pictograms



Signal word

Danger

Hazard statements

H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting/equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.

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

Name: Potassium Hydroxide 0,1 mol/l *(0,1N) in 2-propanol
Formula: KOH M.= 56,11
EC index number: 019-002-00-8

COMPOSITION:

0001: 2-Propanol

Formula: $\text{CH}_3\text{CHOHCH}_3$ M.= 60,10 CAS [67-63-0]

EC number (EINECS): 200-661-7

EC index number: 603-117-00-0

REACH Registration Number: 01-2119457558-25-XXXX

Content: $\geq 50\%$

Classification Regulation (CE) n° 1272/2008.

Flam. Liq. 2

Eye Irrit. 2

STOT SE 3

Hazard Pictograms



Signal word

Danger

Hazard statements

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

Precautionary statements

P243 Take precautionary measures against static discharge.

P261 Avoid breathing dust, fume, gas, mist, vapours or spray.

P271 Use only outdoors or in a well-ventilated area.

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.

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

F Highly flammable

Xi Irritant

R11 Highly flammable.

R36 Irritating to eyes.

R67 Vapours may cause drowsiness and dizziness.

0002: Potassium Hydroxide 85% *pellets

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: $\geq 0,005 \%$ $\leq 2 \%$

Classification Regulation (CE) n° 1272/2008.

Acute Tox. 4

Skin Corr. 1A

Met. Corr. 1

Hazard Pictograms



Signal word

Danger

Hazard statements

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H290 May be corrosive to metals.

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.

P234 Keep only in original container.

P390 Absorb spillage to prevent material damage.

P406 Store in corrosive resistant/ container with a resistant inner liner.

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

Xn Harmful
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.

4.4 Eyes:

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

4.5 Swallowing:

Drink large amounts of water. Do not induce vomiting. Seek immediate medical assistance. Do not drink milk.

5. Firefighting measures

5.1 Suitable extinguishing media:

Water. Carbon dioxide (CO₂). Alcohol resistant foam. Dry powder.

5.2 Unsuitable extinguishing media:

No specific data.

5.3 Special hazards arising from the substance or mixture:

Flammable. Keep away from sources of ignition. The fumes are heavier than air, so they may spread at floor level. Auf Rückzündung achten Prevent the build-up of static.

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.

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.

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. Away from sources of ignition and heat. In well ventilated premises.

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

8. Exposure controls/personal protection

8.1 Exposure controls:

Ensure good ventilation and renewal of the air in the premises.

8.2 Control parameters:

TLV-TWA(2-propanol): 400 ppm = 983 mg/m³ TLV-TWA(KOH): 2 mg/m³ VLA-EC(KOH): 500 ppm = 2 mg/m³ VLA-EC(2-propanol): 1.250 mg/m³ VLA-ED(2-propanol): 400 ppm = 998 mg/m³

8.3 Respiratory protection:

In the event of fumes forming/aerosols, use Full Facial Mask Filter A3.

8.4 Hand protection:

Use suitable gloves (neopren, nitrile)

8.5 Eye/face protection:

Use safety glasses.

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: Characteristic.

pH: <13

Melting point/freezing point: N/A

Initial boiling point and boiling range:

N/A

Flash point: 12 °C

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

~0,787 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:

High temperatures.

10.2 Incompatible materials:

Nitric acid. Oxidant agents. Aluminium. Nitrogen organic compounds. Alkaline metals. Alkali-earth metals. Hydrogen peroxide.

10.3 Hazardous decomposition products:

Peroxides.

10.4 Chemical stability:

Hygroscopic. The gases/fumes can form explosive mixtures with the air.

11. Toxicological information

11.1 Acute toxicity:

LD L0 oral man : 3.570 mg/kg

LD50 oral rat : 5.045 mg/kg

LD50 oral rat : 273 mg/kg MoNa2O4.2H2O

LD50 ipr mus : 4.477 mg/kg

11.2 Dangerous effects for health:

If inhaled: Irritations to the respiratory tracts. Upon contact with the skin: irritations Through contact with the eyes: irritations If swallowed: Irritations of the mucosae in the mouth, throat, oesophagus and intestinal tract. Risk of perforation in the oesophagus and stomach. Due to absorption: headaches vertigo intoxication loss of consciousness narcosis If swallowed in large quantities: respiratory paralysis coma Other dangerous characteristics are not discarded. Take the usual precautions for handling chemical products.

12. Environmental information

12.1 Toxicity:

- EC50 test (mg/l):

Bacteria (Photobacterium phosphoreum) 42000 mg/l

Classification:

Toxic

- Receptor medium:

Risk for the water environment

Medium

Risk for the land environment

Low

- Observations:

Medium water ecotoxicity.

12.2 Persistence and Degradability :

- Test:

- Biotic degradation classification:

BOD5/COD

Biodegradability

- Abiotic degradation depending on pH:

- Observations:

Low biodegradability product.

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:

Hardly pollutant product.

Risk of formation of explosive fumes on the surface of the water.

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.

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14. Transport information

Overland (ADR):

Technical name: FLAMMABLE LIQUID, N.O.S.

UN 1993 Class: 3 Packaging group: II (D/E)

By sea (IMDG):

Technical name: FLAMMABLE LIQUID, N.O.S.

UN 1993 Class: 3 Packaging group: II

By air (ICAI-IATA):

Technical name: Flammable liquid, n.o.s.

UN 1993 Class: 3 Packaging group: II

Packaging instructions: CAO 364 PAX 353

15. Regulatory information

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

16. Other information

Other precautionary statements

P261 Avoid breathing dust, fume, gas, mist, vapours or spray.

P264 Wash...thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

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

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.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P337+P313 If eye irritation persists: Get medical advice/attention.

P370+P378 In case of fire: Use for extinction.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P403+P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

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

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

R-phrase(s): **R67** Vapours may cause drowsiness and
 dizziness.
 R36 Irritating to eyes.
 R11 Highly flammable.

S-phrase(s): **S26** In case of contact with eyes, rinse
 immediately with plenty of water and seek
 medical advice.
 S24/25 Avoid contact with skin and eyes.
 S16 Keep away from sources of ignition - No
 smoking.
 S7 Keep container tightly closed.

Version and revision date : 5 24.02.17

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In respect of the previous review, changes have been made to the following
sections: 14

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.