

Safety Data Sheet
According to Regulation (EC) 1907/2006



1520 Potassium Hydroxide 0,5 mol/l *(0,5N) methanolic

1. Identification of the substance/preparation and of the company or firm

1.1 Identification of the substance or preparation

Name:

Potassium Hydroxide 0,5 mol/l *(0,5N) methanolic

Synonym:

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 Use of the substance/preparation:

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

Classification of the substance or the mixture.

Classification Regulation (CE) n° 1272/2008.

Flam. Liq. 2

Acute Tox. 3

Acute Tox. 3

Acute Tox. 3

STOT SE 1

Skin Corr. 1B

Hazard Pictograms



Signal word

Danger

Hazard statements

H225 Highly flammable liquid and vapour.

H331 Toxic if inhaled.

H311 Toxic in contact with skin.

H301 Toxic if swallowed.

H370 Causes damage to organs <or state all organs affected, if known> <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H314 Causes severe skin burns and eye damage.

Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. 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.

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	R34
T	Toxic	R39/23/24/25
F	Highly flammable	R23/24/25
		R11

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

3. Component Composition/Information

Name: Potassium Hydroxide 0,5 mol/l *(0,5N) methanolic

Formula: KOH M.= 56,11

Composition:

0001: Methanol

Formula: CH₃OH M.= 32,04 CAS [67-56-1]

EC number (EINECS): 200-659-6

EC index number: 603-001-00-X

REACH Registration Number: 01-2119433307-44-XXXX

Content: >= 50 %

Classification Regulation (CE) nº 1272/2008.

Flam. Liq. 2
Acute Tox. 3
Acute Tox. 3
Acute Tox. 3
STOT SE 1

Hazard Pictograms



Signal word

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H331 Toxic if inhaled.
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Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. 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.
P501 Dispose of contents/container according to Directive 94/62/CE or 2008/98/CE.
P243 Take precautionary measures against static discharge.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash...thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
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.
P307+P311 IF exposed: Call a POISON CENTER or doctor/physician.
P311 Call a POISON CENTER or doctor/physician.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P321 Specific treatment (see on this label).
P322 Specific measures (see on this label).
P330 Rinse mouth.
P361 Remove/Take off immediately all contaminated clothing.
P363 Wash contaminated clothing before reuse.
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.

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

F Highly flammable
T Toxic

R11 Highly flammable.
R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
R39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

0002: 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

Content: >= 2 % <= 5 %

Classification Regulation (CE) nº 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/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

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 of suffocation, proceed to provide artificial respiration.

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:

Take the person out into the fresh air. Induce vomiting. Drink ethyl alcohol (25 ml at 50%). Seek immediate medical assistance.

5. Fire-fighting means

5.1 Suitable fire-extinguishing means:

Water. Carbon dioxide (CO₂). Foam. Dry powder.

5.2 Fire-fighting means which must NOT be used:

No specific data.

5.3 Special risks:

Flammable. Keep away from sources of ignition. The fumes are heavier than air, so they may spread at floor level. May form explosive mixtures with the air. Prevent the build-up of static.

5.4 Protective equipment:

Suitable clothing and footwear.

6. Measures to be taken in the event of accidental spillage

6.1 Individual precautions:

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

6.2 Precautions for care of the environment:

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

6.3 Methods for collection/cleaning:

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 Handling:

Limited shelf-life.

7.2 Storage:

Well sealed containers. Away from sources of ignition and heat. In well ventilated premises. Room temperature. Do not store in metal containers.

8. Staff exposure/protection controls

8.1 Technical protective measures:

No special indications.

8.2 Exposure limit control:

TLV-TWA(methanol): 200 ppm - 262 mg/m³

VLA-EC(KOH): 250 ppm - 2 mg/m³ dermal resorption

VLA-EC(methanol): 333 mg/m³

VLA-ED(methanol): 200 ppm - 266 mg/m³ dermal resorption

8.3 Respiratory protection:

In the event of fumes forming/aerosols, use suitable respiratory protection. Filter AX. Filter P3.

8.4 Hand protection:

Use suitable gloves neopren nitrile PVC

8.5 Eye 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. Do not eat, drink or smoke in the workplace. Do not inhale the substance.

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: Methanolic.

pH: 14

Melting point/freezing point: N/A

Initial boiling point and boiling range:

N/A

Flash point: 7 °C

Flammability (solid, gas):

N/A

Upper/lower flammability or explosive limits: 31 %(V) / 5,5 %(V)

Vapour pressure: N/A

Vapour density: N/A

Relative density: (20/4) 0,856

Solubility: Miscible with water

Partition coefficient: n-octanol/water:

N/A

Auto-ignition temperature: 455 °C

Decomposition temperature: N/A

Viscosity: N/A

10. Stability and reactivity

10.1 Conditions which should be avoided:

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

10.2 Matter which should be avoided:

Nitric acid. Oxidant agents. Aluminium. Anhydrides. Ammoniacal compounds
Chromyl chloride. Salts of oxyhalogenic acids. Halogen oxides Halides. Halogen
halides. Halogenated hydrocarbons. Hydrides. Alkaline metals. Alkali-earth metals.
Nitrates. Nitriles. Alkaline oxides. Ethylene oxides. Metal oxides. Non-metal
oxides. Hydrogen peroxide. Powdered zinc. Glass. Organic compounds. Nitrogen
organic compounds.

10.3 Hazardous decomposition products:

No specific data.

10.4 Complementary information:

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

11. Toxicological information

11.1 Acute toxicity:

LD L0 oral man : 6.422 mg/kg referred to the pure substance CH₃OH

LD50 oral mus : 7.300 mg/kg

LD50 oral rat : 273 mg/kg referred to the pure substance MoNa₂O₄.2H₂O

LD50 skn rbt : 15.800 mg/kg referred to the pure substance CH₃COH

TC L0 inh mus : 50 g/m³ 2h

LC L0 inh man : 86000 mg

LC50 inh rat : 64000 ppm 4h

LD50 ipr mus : 10.765 mg/kg referred to the pure substance CH₃OH

11.2 Dangerous effects for health:

If inhaled: Irritations to the respiratory tracts. Upon contact with the skin: burns
Through contact with the eyes: burns sight disorders Risk of blindness
(irreversible injury of the optic nerve) If swallowed: Burns in the oesophagus and
stomach. Risk of perforation in the oesophagus and stomach. Risk of aspiration
upon vomiting. Systemic effects: narcosis vertigo intoxication hypotension acidosis
coma

12. Environmental information

12.1 Toxicity:

12.1.1 - EC50 test (mg/l):

Bacteria (Photobacterium phosphoreum) 40000 mg/l

Classification:

Toxic

12.1.2. - Receptor medium:

Risk for the water environment

Medium

Risk for the land environment

Low

CH₃OH

Ecotoxic in water environment.

KOH

Slight effects due to deviation of the pH.

12.2 Persistence and Degradability :

12.2.1 - Test:

12.2.2. - Biotic degradation classification:

BOD5/COD

Biodegradability

12.2.3. - Abiotic degradation depending on pH:

12.2.4. - Observations:

Easily biodegradable product.

12.3 Bioaccumulative potential:

12.3.1. - Test:

12.3.2. - Bioaccumulation:

Risk

12.3.3. - Observations:

Non-bioaccumulable product.

12.4 Mobility in soil :

Data not available.

12.5 Assessment PBT and MPMB :

Data not available.

12.6 Other possible effects on the environment:

Do not allow it to enter soils or water channels.

13. Considerations regarding elimination

13.1 Substance or preparation:

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. Information concerning transport

Overland (ADR):

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

UN 2924 Class: 3 8 Packaging group: II (D/E)

By sea (IMDG):

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

UN 2924 Class: 3 8 Packaging group: II

By air (ICAO-IATA):

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

UN 2924 Class: 3 8 Packaging group: II

Packaging instructions: CAO 363 PAX 352

15. Regulatory information

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

16. Other information

Other precautionary statements

P243 Take precautionary measures against static discharge.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash...thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
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P405 Store locked up.

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

R-phrases(s): **R34** Causes burns.
 R39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.
 R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
 R11 Highly flammable.

S-phrases(s): **S45** In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
 S36/37 Wear suitable protective clothing and gloves.
 S16 Keep away from sources of ignition - No smoking.
 S7 Keep container tightly closed.

Review number and date: 4 1.4.11

Date published: 1.4.11

In respect of the previous review, changes have been made to the following sections: 9

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.