

Safety data sheet

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according to 1907/2006/EC, Article 31

Printing date 01.12.2022 Revision: 01.12.2022 Version number 12.06 (replaces version 12.05)

SECTION 1: Identification of the substance/mixture and of the company/ undertaking

· 1.1 Product identifier

Trade name: Potassium Hydroxide 0.1 mol/l (0.1N)

· Article number: 1521

- · Application of the substance / the mixture Laboratory chemicals
- · 1.3 Details of the supplier of the safety data sheet · Manufacturer/Supplier: PANREAC QUIMICA S.L.U. C/Garraf 2 Polígono Pla de la Bruguera E-08211 Castellar del Vallès (Barcelona)

Tel. (+34) 937 489 400 Fax. (+34) 937 489 401 e-mail: product.safety@itwreagents.com

· Further information obtainable from: email: product.safety@panreac.com · 1.4 Emergency telephone number:

Single telephone number for emergency calls: 112 (EU) Tel.: (+34) 937 489 499

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture · Classification according to Regulation (EC) No 1272/2008 Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2 H319 Causes serious eye irritation.

· 2.2 Label elements · Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the GB CLP regulation. · Hazard pictograms



· Signal word Warning

Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

· Precautionary statements

P264 Wash thoroughly after handling. P280

Wear protective gloves / eye protection / face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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P332+P313	If skin irritation occurs: Get medical advice/attention.	
P362+P364	Take off contaminated clothing and wash it before reuse.	
P337+P313	If eye irritation persists: Get medical advice/attention.	
· 2.3 Other haza	rds	

Results of PBT and vPvB assessment

- **PBT:** Not applicable.
- · **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· **Description:** aqeous solution

· Dangerous components:

angerous components.		
CAS: 1310-58-3	Potassium Hydroxide	≥0.5-<2%
EINECS: 215-181-3	Met. Corr.1, H290; Skin Corr. 1A, H314; Acute Tox. 4,	
Reg.nr.: 01-2119487136-33-	H302	
XXXX	Specific concentration limits:	
	Skin Corr. 1A; H314: C ≥ 5%	
	Skin Corr. 1B; H314: 2 % ≤ C < 5 %	
	Skin Irrit. 2; H315: 0.5 % ≤ C < 2 %	
	Eye Irrit. 2; H319: 0.5 % ≤ C < 2 %	
	Met. Corr.1; H290: C ≥ 5 %	
Additional information: For the	wording of the listed bezerd phrases refer to eastion 16	

• Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

· 4.1 Description of first aid measures

- · General information: Seek medical treatment.
- After inhalation:
- Supply fresh air.

In case of unconsciousness place patient stably in side position for transportation.

• After skin contact:

Immediately wash with water and soap and rinse thoroughly.

- Immediately remove any clothing soiled by the product.
- After eye contact: Call a doctor immediately.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

SECTION 5: Firefighting measures

· 5.1 Extinguishing media

· Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- 5.2 Special hazards arising from the substance or mixture Non-combustible.
- 5.3 Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.
- Additional information
 Collect contaminated fire fighting water separately. It must not enter the sewage system.
 Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
 Contain escaping vapours with water.

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Trade name: Potassium Hydroxide 0.1 mol/l (0.1N)

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SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Avoid substance contact.
 Do not inhale steams/aerosols.
- 6.2 Environmental precautions: Do not allow product to reach sewage system or any water course. • 6.3 Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation.
- Clean up affected area.
- 6.4 Reference to other sections
 See Section 7 for information on safe handling.
 See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.
- · Information about fire and explosion protection: The product is not flammable.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: No aluminium, tin or zinc containers.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep container tightly sealed.

Open receptacle only under localised extractor facilities.

- · Recommended storage temperature: Room Temperature
- · Storage class: 8 B
- 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

- 1310-58-3 Potassium Hydroxide
- WEL Short-term value: 2 mg/m³

• Additional information: The lists valid during the making were used as basis.

- · 8.2 Exposure controls
- · Appropriate engineering controls No further data; see item 7.
- · Individual protection measures, such as personal protective equipment
- General protective and hygienic measures:
- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing
- Wash hands before breaks and at the end of work.
- Avoid contact with the eyes and skin.
- · Respiratory protection:
- Filter ABEK

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Use suitable respiratory protective device only when aerosol or mist is formed.

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· Hand protection

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Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

• Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- Penetration time of glove material The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. • For the permanent contact gloves made of the following materials are suitable:
- For the permanent contact gloves made of the following materials are suitable: Nitrile rubber, NBR Recommanded thickness of the material: > 0.11 mm

Recommended thickness of the material: ≥ 0.11 mm Value for the permeation: Level ≥ 480 min

• As protection from splashes gloves made of the following materials are suitable: Nitrile rubber, NBR Recommended thickness of the material: ≥ 0.11 mm

Value for the permeation: Level \geq 480 min

Eye/face protection



Tightly sealed goggles

· Body protection:

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazourdous substances handled.

9.1 Information on basic physical and	chemical properties	
General Information	FF	
Physical state	Fluid	
Colour:	Colourless	
Odour:	Odourless	
Odour threshold:	Not determined.	
Melting point/freezing point:	Undetermined.	
Boiling point or initial boiling point ar		
range	Undetermined.	
Flammability	Not applicable.	
Lower and upper explosion limit		
Lower:	Not determined.	
Upper:	Not determined.	
Flash point:	Not applicable.	
Decomposition temperature:	Not determined.	
pH	Not determined.	
Viscosity:		
Kinematic viscosity	Not determined.	
Dynamic:	Not determined.	
		(Contd. on page

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[·] Solubility	
· water:	Fully miscible.
· Partition coefficient n-octanol/water (log va	Ilue) Not determined.
· Vapour pressure:	Not determined.
 Density and/or relative density 	
· Density at 20 °C:	~1 g/cm³
· Relative density	Not determined.
· Vapour density	Not determined.
· 9.2 Other information	
· Appearance:	
· Form:	Fluid
· Important information on protection of he	alth
and environment, and on safety.	
• Auto-ignition temperature:	Product is not selfigniting.
Explosive properties:	Product does not present an explosion hazard.
Solvent content:	
· Water:	98.1 %
· Change in condition	
· Evaporation rate	Not determined.
 Information with regard to physical haz classes 	
Explosives	Void
Flammable gases	Void
Aerosols	Void
· Oxidising gases	Void
Gases under pressure	Void
· Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
• Pyrophoric solids	Void
• Self-heating substances and mixtures	Void
Substances and mixtures, which emit	N / - ' - I
flammable gases in contact with water	Void
• Oxidising liquids	Void
· Oxidising solids	Void
Organic peroxides	Void
· Corrosive to metals	Void
· Desensitised explosives	Void

SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** organic substances
- 10.6 Hazardous decomposition products: In the event of fire: See chapter 5
- · Additional information:
- Incompatible with:
- varous plastics

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glass

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SECTION 11: Toxicological information

- \cdot 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- Acute toxicity
- LD/LC50 values relevant for classification:
- Quantitative data on the toxicological effect of this product are not available.
- · Components

Value Species

- ATE (Acute Toxicity Estimates)
- Oral LD50 17,526-66,600 mg/kg (rat)
- · Skin corrosion/irritation Causes skin irritation.
- · Serious eye damage/irritation Causes serious eye irritation.

Type

- · After inhalation: Irritant to skin and mucous membranes.
- · 11.2 Information on other hazards
- · Endocrine disrupting properties
- None of the ingredients is listed.

SECTION 12: Ecological information

- · 12.1 Toxicity
- Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- · 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.
- · 12.6 Endocrine disrupting properties
- The product does not contain substances with endocrine disrupting properties.
- · 12.7 Other adverse effects
- · Additional ecological information:
- · General notes: Not hazardous for water.

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation

Chemicals must be disposed of in compliance with the respective national regulations. Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packaging:
- · Recommendation:

Disposal must be made according to official regulations.

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

SECTION 14: Transport information

- · 14.1 UN number or ID number
- · ADR, IMDG, IATA

UN1814

- · 14.2 UN proper shipping name
- · ADR, IMDG, IATA

POTASSIUM HYDROXIDE SOLUTION

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· Class

Revision: 01.12.2022 Version number 12.06 (replaces version 12.05) Trade name: Potassium Hydroxide 0.1 mol/l (0.1N) (Contd. of page 6) · 14.3 Transport hazard class(es) 8 (C5) Corrosive substances. 8

· Label	8
· IMDG, IATA	
· Class · Label	8 Corrosive substances. 8
 14.4 Packing group ADR, IMDG, IATA 	III
· 14.5 Environmental hazards:	Not applicable.
 14.6 Special precautions for user Hazard identification number (Kemler code) EMS Number: Segregation groups Stowage Category Segregation Code 	Warning: Corrosive substances. : 80 F-A,S-B (SGG18) Alkalis A SG35 Stow "separated from" SGG1-acids
 14.7 Maritime transport in bulk according to IMO instruments 	Not applicable.
· Transport/Additional information:	
 ADR Limited quantities (LQ) Excepted quantities (EQ) Transport category Tunnel restriction code 	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml 3 E
	E
 Limited quantities (LQ) Excepted quantities (EQ) 	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 1814 POTASSIUM HYDROXIDE SOLUTION, 8, III

SECTION 15: Regulatory information

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I None of the ingredients is listed.

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 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out. SECTION 16: Other information This information is based on our present knowledge. However, this shall not constitute a guarantee any specific product features and shall not establish a legally valid contractual relationship. Relevant phrases H290 May be corrosive to metals. H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulation Concerning the International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organisation 	10	de name: Potassium Hydroxide 0.1 mol/l (0.1N)
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Met. Corr.1: Corrosive to metals – Category 1 Acute Tox. 4: Acute toxicity – Category 4 Skin Corr. 1A: Skin corrosion/irritation – Category 1A Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2		
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Eye Irrit. 2: Serious eye damage/eye irritation – Category 2		Skin Corr. 1A: Skin corrosion/irritation – Category 1A
		Skin Irrit. 2: Skin corrosion/irritation – Category 2
* Data compared to the previous version altered.		
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