# Vickers Laboratories Ltd - Safety Data Sheet

4821

(in accordance with regulation (EU) 2015/830 and regulation (EC) 1272/2008)

Revision: 1.1 Revision date: 16 April 2021
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**Section 1. Identification** 

1.1 Product Identifier 4821

Product Name POTASSIUM HYDROXIDE 28% w/w

CAS Number Mixture

REACH Registration No A registration number is not available as the substance or its uses are exempt, the

annual tonnage does not require a registration or the registration is envisaged for a

later date.

1.2 Relevent identified uses of the substance or mixure & uses advised against

Uses of Material Chemical for industrial and laboratory use. Not suitable for domestic use.

1.3 Supplier Vickers Laboratories Ltd



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(Have this document to hand)

# Section 2. Hazards Identification

#### 2.1 Classification of the substance or mixture

### Classification according to regulation 1272/2008/EC

Skin corrosion/irritation, category 1A

H314: Causes severe skin burns and eye damage.

### 2.2 Label elements

### Labelling according to regulation 1272/2008/EC

Signal word Danger

Hazard Pictograms



Hazard Statements Causes severe skin burns and eye damage.

Ref: 4821

immediately all contaminated clothing. Rinse skin with water/shower. IF IN EYES: Rinse cautiously with water

for several minutes. Remove contact lenses if present and easy to do and continue rinsing.

# **Section 3. Composition**

#### 3.2 Mixtures

C	Component	CAS No.	EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Po	otassium hydroxide	1310-58-3	215-181-3	01-2119487136-33-XXXX	28%	Skin Corr. 1A,Acute Tox. 4 (O)

# Section 4. First Aid

### 4.1 Description of first aid measures

Eyes Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. OBTAIN MEDICAL

ATTENTION URGENTLY.

Skin Wash off skin thoroughly with water. Remove contaminated clothing immediately and wash before re-use. If

irritation persists or there is any sign of skin damage, seek IMMEDIATE MEDICAL ASSISTANCE

Inhalation Remove from exposure.

Ingestion If conscious give plenty of water to drink. Do not induce vomiting. OBTAIN MEDICAL ATTENTION

URGENTLY.

Personal protection for first Wear protective gloves / eye protection.

aiders

#### 4.2 Most important symptoms and effects, both acute & 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. Fire Fighting

### 5.1 Extinguishing media

Extinguishing Media Consider what other flammable materials are present and act accordingly.

Unsuitable Media Nothing specified.

### 5.2 Special hazards arising from the substance or mixture

Hazards Presents no specific fire danger.

5.3 Advice for firefighters

Advice for firefighters Consider all other materials in the vicinity.

## Section 6. Accidental Release Measures

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

Personal Protection Use approved personal protective equipment. Evacuate area immediately. Do not allow other people to enter area.

Do not allow general use of area until it is safe to do so.

6.2 Environmental precautions

Environmental Keep non-neutralised material out of sewers, storm drains, surface waters and soil. Notify the Environmental

Agency and local Environmental Health Officer if major spillage occurs.

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

Major Spillage Contain spill with inert material. Neutralise with 5M hydrochloric acid. Wash area down with copious amounts of

water.

Minor Spillage Wash area down with copious amounts of water.

### 6.4 Reference to other sections

# Section 7. Storage & Handling

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Do not breath vapours. Do not allow to contaminate clothing.

Ensure Local Exhaust Ventilation maintains vapour concentrations below the recommended limits.

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

Store in a dry place protected against moisture and water. Keep well separated from acids, metals, explosives, organic peroxides and ignitable materials.

#### 7.3 Specific end use(s)

See section 1.2.

# Section 8. Workplace Exposure & Personal Protection

#### 8.1 Control parameters

Ī	Component	CAS No	Concentration	Workplace Exposure Limits			
				Long Term (8hr TWA)		Short Term 15min period)	
ĺ	Potassium hydroxide	1310-58-3	28%	-	-	-	2.0 mg/m-3

Exposure data source(s) IOELV: Indicative Occupational Exposure Limit Value.

### 8.2 Exposure controls

Respiratory Protection In cases where a spray or mist may be formed, use L.E.V. or natural ventilation to maintain vapour concentrations

below exposure limits. If not, use a well maintained chemical cartridge respirator, or use self contained breathing

apparatus.

Hand Protection Use nitrile gloves or PVC gauntlets.

Eye Protection Use chemical full face shield.

Skin Protection Wear PVC oversuit.

Special Hazards No special precautions required.

# Section 9. Physical & Chemical Properties

### 9.1 Information on basic physical and chemical properties

Appearance Clear colourless liquid

Odour Odourless. pH 14 @ 20°C

Boiling Point ~100 °C Aqueous solution

Melting Point ~0 °C

Flash Point Not applicable
Upper Flammable Limit
Lower Flammable Limit
Auto Ignition Not applicable
Not applicable
Not applicable

Explosive Properties No. Oxidising Properties No.

Vapour Pressure Not applicable Relative Density 1.0452

Water Solubility Completely soluble in water.

### 9.2 Other information

No data available.

# Section 10. Stability & Reactivity

**10.1** Reactivity No data available.

10.2 Chemical Stability Stable under normal conditions

10.3 Possibility of hazardous No data available.

reactions

10.4 Conditions to Avoid No specific conditions.

10.5 Incompatable Materials Acids. Reacts with aluminium and zinc to produce extremely flammable hydrogen gas.

Hazardous Decomposition None unusual.

**Products** 

# **Section 11. Toxicological Information**

#### 11.1 Information on toxicological effects

Eyes The liquid and solutions will cause severe burns. Damage can range from severe irritation and corneal scarring to

permanent blindness.

Skin Contact with the liquid or solutions will not lead to immediate pain but damage begins at once. Severe ulceration

and scarring may occur in serious cases.

LD50 Skin Not available

Ingestion will cause severe mouth burns, and if swallowed extensive damage to the oesophagus. Ingestion

LD50 Oral 500mg/kg Rabbit

Inhalation Presents no significant health hazard by inhalation.

LD50 Inhalation Not available **TCLo** Not available

Carcinogenicity Not considered to be a carcinogen. Mutagenicity Not considered to be a mutagen.

Reproductive Effects None identified.

# Section 12. Ecological

12.1 Toxicity Small amounts present no specific environmental hazard. Neutralised material presents no specific environmental

hazard.

LC50 Algal Not available Not available LC50 Crustacea LC50 Fish Not available 12.2 Persistence and

degradability

No data available.

Bioaccumulative potential No data available. Mobility in soil No data available.

Results of PBT & vPvB assessment

Assessment not required.

Other adverse effects None known at present.

# **Section 13. Disposal Considerations**

### 13.1 Waste treatment methods

Dispose of via an authorised waste disposal contractor to an approved waste disposal site, observing all local and Disposal Methods

national regulations.

Contaminated Packaging Clean out with a weak hydrochloric acid solution then wash out thoroughly with water.

# **Section 14. Transport Information**

**14.1 UN Number** 1814

14.2 Proper Shipping Name Potassium hydroxide solution

14.3 Transport classes

UN classification 8
Subsidiary hazard(s) None
Transport category 2
ADR Hazard ID 80
Tunnel Restriction Code E

14.4 Packing Group II



**14.5 Environment hazards** See section 12.

**14.6 Special precautions for** No special precautions required.

user

**14.7 Transport in bulk** Not transported in bulk.

# Section 15. Regulatory Information

# $15.1\ Safety, health\ and\ environment\ regulations\ specific\ for\ subtance/mixture.$

#### Classification, Labeling & Packaging of Substances & Mixtures Regulations (1272/2008/CE)

Classification Skin corrosion/irritation, category 1A

Signal word Danger

Hazard Pictograms



Hazard Statements H314

Causes severe skin burns and eye damage.

Precautionary Statements P301+P330+P331, P303+P361+P353, P305+P351+P338

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing.

### 15.2 Chemical safety assessment

Assessment not required.

## **Section 16. Other Information**

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment. See sections 11 for toxicological information and section 12 for ecological information.

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