

SAFETY DATA SHEET

Creation Date 18-Jul-2011

Revision Date 18-Jul-2011

Revision Number 1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Name Potassium Hydroxide 10%
Cat No. R21230
Synonyms No information available.
Recommended Use Laboratory chemicals

Company	Remel 12076 Santa Fe Drive Lenexa, KS 66215 United States Telephone: 1-800-255-6730 Fax:1-800-621-8251	Entity / Business Name	Oxoid Ltd. Wade Road Basingstoke, Hants, UK RG24 8PW Telephone: +44 (0) 1256 841144
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Emergency Telephone Number Carechem 24: +44 (0) 1865 407333

2. HAZARDS IDENTIFICATION

The preparation is classified as dangerous in accordance with Directive 1999/45/EC.



R -phrase(s)
R35 - Causes severe burns

3. COMPOSITION/INFORMATION ON INGREDIENTS

Haz/Non-haz

Component	Weight %	EC No.	Classification
Potassium hydroxide 1310-58-3	10	215-181-3	Xn; R22 C; R35
Glycerol 56-81-5	10	200-289-5	-

For the full text of the R phrases mentioned in this Section, see Section 16

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4. FIRST AID MEASURES

Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek immediate medical attention/advice.
Skin Contact	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes
Ingestion	Clean mouth with water and afterwards drink plenty of water. Obtain medical attention.
Inhalation	Move to fresh air. Get medical attention if symptoms occur..
Notes to Physician	Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

Extinguishing media which must not be used for safety reasons

No information available.

Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

Flash Point	Not applicable
Method	No information available.
Autoignition Temperature	No information available.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Use personal protective equipment.
Environmental Precautions	Prevent further leakage or spillage if safe to do so
Methods for Containment and Clean Up	Neutralise with water or acid Soak up with inert absorbent material

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7. HANDLING AND STORAGE

Handling	Avoid contact with skin, eyes and clothing. Ensure adequate ventilation.
Storage	Keep container tightly closed in a dry and well-ventilated place. Protect from light. Protect from moisture.
Specific use(s)	No information available.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits

Component	European Union	The United Kingdom	Belgium	France	Spain	Germany
Potassium hydroxide		WEL - 2 mg/m ³ STEL	STEL: 2mg/m ³ VLE	VLCT: 2 mg/m ³	VLA-EC: 2 mg/m ³	
Glycerol		STEL: 30 mg/m ³ TWA: 10 mg/m ³	TWA: 10 mg/m ³	VME: 10 mg/m ³	VLA-ED: 10 mg/m ³	MAK: 50 mg/m ³ Peak: 100 mg/m ³

Component	Italy	Portugal	The Netherlands	Finland	Austria
Potassium hydroxide		Ceiling: 2 mg/m ³	MAC-C: 2 mg/m ³	STEL: 2 mg/m ³ Ceiling: 2 mg/m ³	MAK: 2 mg/m ³
Glycerol		TWA: 10 mg/m ³		TWA: 20 mg/m ³	

Component	Switzerland	Poland	Norway	Ireland	Denmark	Australia
Potassium hydroxide	MAK: 2 mg/m ³	NDSch: 1 mg/m ³ NDS: 0.5 mg/m ³	Ceiling: 2 mg/m ³	STEL: 2 mg/m ³	Ceiling: 2 mg/m ³	Ceiling: 2 mg/m ³
Glycerol	STEL: 100 mg/m ³ MAK: 50 mg/m ³	NDS: 10 mg/m ³		TWA: 10 mg/m ³		TWA: 10 mg/m ³

Occupational exposure controls

Engineering Measures	Ensure adequate ventilation, especially in confined areas
Personal Protective Equipment	
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced
Eye Protection	Tightly fitting safety goggles
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure
Hand Protection	Protective gloves
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice
Environmental exposure controls	No information available.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Appearance	Colourless
pH	No information available.
Boiling Point/Range	Not applicable
Melting Point/Range	No information available.
Flash Point	Not applicable

10. STABILITY AND REACTIVITY

Stability	Stable under recommended storage conditions.
Conditions to Avoid	Incompatible products
Incompatible Materials	Strong oxidizing agents
Hazardous Decomposition Products	Carbon oxides
Hazardous Polymerization	No information available
Hazardous Reactions .	None under normal processing.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Potassium hydroxide	214 mg/kg (Rat)		
Glycerol	12600 mg/kg (Rat)	21900 mg/kg (Rat)	

Chronic Toxicity

Carcinogenicity	There are no known carcinogenic chemicals in this product
Sensitization	No information available.
Neurological Effects	No information available.
Mutagenic Effects	No information available.

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Reproductive Effects No information available.
Developmental Effects No information available.
Target Organs Respiratory system, Eyes, Kidney, Skin.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Potassium hydroxide		80 mg/L LC50 96 h		
Glycerol		51 - 57 mL/L LC50 96 h		500 mg/L EC50 > 24 h

Persistence and Degradability No information available

Bioaccumulative Potential No information available.

Mobility No information available.

Component	log Pow
Potassium hydroxide	0.65
	0.83
Glycerol	-1.76

13. DISPOSAL CONSIDERATIONS

Waste from Residues / Unused Products Dispose of as hazardous waste in compliance with local and national regulations

Contaminated Packaging Empty containers should be taken for local recycling, recovery or waste disposal

14. TRANSPORT INFORMATION

IMDG/IMO

UN-No UN1814
Hazard Class 8
Packing Group II
Proper Shipping Name Potassium hydroxide solution

ADR

UN-No UN1814
Hazard Class 8

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14. TRANSPORT INFORMATION

Packing Group II
Proper Shipping Name Potassium hydroxide solution

IATA

UN-No UN1814
Hazard Class 8
Packing Group II
Proper Shipping Name Potassium hydroxide, solution

15. REGULATORY INFORMATION

The preparation is classified as dangerous in accordance with Directive 1999/45/EC

Labelling



R -phrase(s)

R35 - Causes severe burns

S -phrase(s)

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

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection

International Inventories

Component	EINECS	ELINCS	NLP	TSCA	DSL	NDSL	PICCS	ENCS	CHINA	AICS	KECL
Potassium hydroxide	-	-		X	X	-	X	X	X	X	X
Glycerol	-	-		X	X	-	X	X	X	X	X

16. OTHER INFORMATION

Text of R phrases mentioned in Section 2-3

R22 - Harmful if swallowed

R35 - Causes severe burns

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16. OTHER INFORMATION

Prepared By	Regulatory Affairs
Creation Date	18-Jul-2011
Revision Date	18-Jul-2011
Revision Summary	"***", and red text indicates revision
Restrictions on use	No information available.
Training advice	No information available.
Literary reference	No information available.

Disclaimer

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End of Safety Data Sheet