

## SAFETY DATA SHEET

# POTASSIUM HYDROXIDE SOLID

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

<b>Product code</b>	P18
<b>Product name</b>	POTASSIUM HYDROXIDE SOLID
<b>Company</b>	Norkem Limited Norkem House Bexton Lane Knutsford Cheshire WA16 9FB datasheet@norkem.com www.norkem.com
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<b>Emergency telephone number</b>	01865 407333 UK Transport only

**2 HAZARDS IDENTIFICATION.**

<b>Main hazards</b>	Harmful if swallowed. Causes severe burns.
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**3 . COMPOSITION / INFORMATION ON INGREDIENTS.**

Hazardous ingredients	Conc.	CAS	EINECS	Symbols/Risk phrases
Potassium hydroxide	90 - 100%	1310-58-3	215-181-3	Xn; R22 C; R35

**4. FIRST AID MEASURES**

<b>Eye contact</b>	Causes burns. Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention.
<b>Skin contact</b>	Causes burns. Remove contaminated clothing. Wash off immediately with plenty of soap and water. Seek medical attention if irritation or symptoms persist.
<b>Ingestion</b>	Ingestion causes burns to the respiratory tract. DO NOT INDUCE VOMITING. Drink 1 to 2 glasses of water. If swallowed, seek medical advice immediately and show this container or label.
<b>Inhalation</b>	Inhalation of vapour may cause shortness of breath. Move the exposed person to fresh air. Seek medical attention.

**5. FIRE FIGHTING MEASURES**

<b>Extinguishing media</b>	Use as appropriate: carbon dioxide (CO2), dry chemical, foam.
<b>Fire hazards</b>	Corrosive. Burning produces irritating, toxic and obnoxious fumes. Not combustible.
<b>Protective equipment</b>	Wear suitable respiratory equipment when necessary. Self-contained breathing apparatus.

# POTASSIUM HYDROXIDE SOLID

Revision 0  
Revision date

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions</b>	Avoid raising dust. Ensure adequate ventilation of the working area. Evacuate personnel to a safe area. Wear suitable protective equipment.
<b>Environmental precautions</b>	Do not allow product to enter drains. Prevent further spillage if safe.
<b>Clean up methods</b>	Avoid raising dust. Sweep up. Transfer to suitable, labelled containers for disposal.

## 7. HANDLING AND STORAGE

<b>Handling</b>	Avoid contact with eyes and skin. Ensure adequate ventilation of the working area. Avoid formation of dust. Do not empty into drains. Wear suitable protective equipment.
<b>Storage</b>	Keep containers tightly closed. Keep in a cool, dry, well ventilated area. Avoid contact with: acids.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure limits

POTASSIUM HYDROXIDE SOLID	WEL 8-hr limit ppm: -	WEL 8-hr limit mg/m <sup>3</sup> : -
	WEL 15 min limit ppm: -	WEL 15 min limit mg/m <sup>3</sup> : 2

<b>Engineering measures</b>	Ensure adequate ventilation of the working area.
<b>Occupational exposure controls</b>	COSHH - Due consideration should be given to your control systems and the need for assessment.
<b>Protective equipment</b>	Wear chemical protective clothing. Protective equipment should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective equipment to chemicals should be ascertained with the respective supplier.
<b>Respiratory protection</b>	Self-contained breathing apparatus.
<b>Hand protection</b>	Chemical resistant gloves (PVC)
<b>Eye protection</b>	Approved safety goggles.
<b>Protective clothing.</b>	Protective clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Description</b>	Solid.
<b>Colour</b>	White.
<b>Odour</b>	Odourless.
<b>pH</b>	14 @ 20 C 100 g/l
<b>Boiling point</b>	200°C
<b>Vapour pressure</b>	1 mm hg @ 719 C
<b>Relative density</b>	0.9 (bulk)
<b>Water solubility</b>	soluble in water. 1,070 kg/m <sup>3</sup> @ 15 C.
<b>Melting point</b>	200°C

## 10. STABILITY AND REACTIVITY

<b>Stability</b>	Stable under normal conditions.
<b>Conditions to avoid</b>	Acids. Flammable. Oxidising agents. Water.
<b>Materials to avoid</b>	Strong acids and strong bases.

# POTASSIUM HYDROXIDE SOLID

Revision 0  
Revision date

## 11. TOXICOLOGICAL INFORMATION

### Toxicological information

POTASSIUM HYDROXIDE SOLID

Oral Rat LD50 = 365 mg/kg

Dermal Guinea Pig LD50 = 50 mg/24h sev

<b>Eye contact</b>	Burning, redness. Causes severe inflammation and may damage the cornea.
<b>Skin contact</b>	Burning, redness. May cause severe irritation to eyes and skin.
<b>Ingestion</b>	Abdominal pain, nausea, vomiting. May cause severe irritation to skin, eyes and mucous membranes.
<b>Inhalation</b>	Coughing, difficulty in breathing. Inhalation may cause coughing, tightness of the chest and irritation of the respiratory system.
<b>Corrosivity</b>	Causes burns.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

POTASSIUM HYDROXIDE SOLID

Daphnia LC50/24h = 270 mg/l

Rainbow trout LC50/96h = 189 mg/l

## 13. DISPOSAL CONSIDERATIONS

**General information** Dispose of in compliance with all local and national regulations.

## 14. TRANSPORT INFORMATION

### ADR/RID

<b>UN</b> 1813	<b>Packing group</b> II
<b>Class</b> 8	<b>Hazard ID</b> 80
<b>Proper Shipping Name</b> POTASSIUM HYDROXIDE, SOLID .	

### IMDG

<b>UN</b> 1813	<b>Packing group</b> II
<b>Class</b> 8	<b>Marine pollutant</b> NO
<b>EmS Code</b> F-A S-B	

### IATA

<b>UN</b> 1813	<b>Packing group</b> II
<b>Class</b> 8	<b>Subsidiary risk</b> -
<b>Packing Instruction (Cargo)</b> 816	<b>Maximum quantity</b> 50 kg
<b>Packing Instruction (Passenger)</b> 814	<b>Maximum quantity</b> 15 kg

# POTASSIUM HYDROXIDE SOLID

Revision 0  
Revision date

## 15. REGULATORY INFORMATION

<b>Labelling</b>	The product is classified in accordance with 67/548/EEC.
<b>Symbols</b>	C - Corrosive 
<b>Risk phrases</b>	R22 - Harmful if swallowed. R35 - Causes severe burns.
<b>Safety phrases</b>	S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection. S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

## 16. OTHER INFORMATION

<b>Text of risk phrases in Section 3.</b>	R22 - Harmful if swallowed. R35 - Causes severe burns.
<b>General information</b>	The following information is provided to conform with article 13 of the EC Directive on Packaging and Packaging Waste 94/62/EC: * Wherever possible we use returnable packaging and pallets. Details of these are on our Sales Contracts * For any non-returnable packaging the cost of disposal is at your expense, but we do have a list of reprocessors available * In most cases, but not all, we are able to supply products in returnable packaging but the additional cost of this will be for the customers expense. Please ask for details with your specific requirements * Any products supplied in returnable packaging is clearly marked to this effect.
<b>Further information</b>	The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.