

# OXFORD LAB FINE CHEM LLP

ISO 9001-2008 Certified Company

Regd Office: Unit no 12, 1st Floor,  
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## MATERIAL SAFETY DATA SHEET

### POTASSIUM HYDROXIDE 40% W/W SOLUTION MSDS CAS: 1310-58-3

#### Section 1: Chemical Product and Company Identification

##### Section 1: Chemical Product

Product Name: POTASSIUM HYDROXIDE 40% W/W SOLUTION

CAS#: 1310-58-3

Chemical Name: POTASSIUM HYDROXIDE 40% W/W SOLUTION

Chemical Formula: KOH

Brand : OXFORD

##### Details Of The Supplier Of The Safety Data Sheet :

Company identification: OXFORD LAB FINE CHEM LLP  
Unit. No. 12, 1st Floor, Neminath Industrial Estate No. 6,  
Navghar, Vasai (East). Palghar - 401 210.  
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Tel/Fax: 91-250-2390032

#### Section 2: Composition and Information on Ingredients

Substance / Preparation: Preparation.

Hazardous component(s): This product is hazardous.

SUBSTANCE NAME	CAS NO.	CONTENTS
Potassium hydroxide	1310-58-3	> 25 < 50 %
Water	7732-18-5	> 50 < 75 %

## Section 3: Hazards Identification

**Classification of the substance or mixture**

**Classification EC 67/548 or EC 1999/45**

**Classification** : Xn; R22  
C; R35

**Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)**

**Health hazards:** Acute toxicity, Oral - Category 4 - Warning (CLP : Acute Tox. 4) H302  
Skin corrosion - Category 1A - Danger (CLP : Skin Corr. 1A) H314

**Other hazards** : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

## Section 4: First Aid Measures

**Description of first aid measures:**

**Inhalation:** Immediately call a POISON CENTER or doctor. Remove to fresh air and keep at rest in a position comfortable for breathing.

**Skin contact:** Immediately call a POISON CENTER or doctor. Wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing.

**Eye contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

**Ingestion:** Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor.

**Most important symptoms and effects, both acute and delayed:**

**Symptoms relating to use:** Causes severe skin burns and eye damage.

Swallowing a small quantity of this material will result in serious health hazard.

**Indication of any immediate medical attention and special treatment needed:**

**General information:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

## Section 5: Fire and Explosion Data

### Extinguishing media:

- Suitable extinguishing media** : Foam. Dry powder. Carbon dioxide. Water spray. Sand.  
**Unsuitable extinguishing media** : Do not use a heavy water stream.  
**Surrounding fires** : Use water spray or fog for cooling exposed containers.

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

- Hazardous combustion products** : Under fire conditions, hazardous fumes will be present.  
Thermal decomposition generates : Corrosive vapours.

### Advice for fire-fighters:

- Protection against fire** : Do not enter fire area without proper protective equipment,  
including respiratory protection.  
**Special procedures** : Exercise caution when fighting any chemical fire. Avoid (reject)  
fire-fighting water to enter environment.

## Section 6: Accidental Release Measures

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

- For emergency responders** :Equip cleanup crew with proper protection.  
:Ventilate area.

- For non-emergency personnel** :Evacuate unnecessary personnel.

### Environmental precautions

- Environmental precautions** :Prevent entry to sewers and public waters. Notify authorities if product  
enters sewers or public waters.

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

- Clean up methods** : Soak up spills with inert solids, such as clay or diatomaceous earth as  
soon as possible. Collect spillage. Store away from other materials.

## Section 7: Handling and Storage

### Precautions for safe handling

**Handling :** Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid contact during pregnancy or while nursing. Do not breathe dust, fume, gas, mist, vapours, spray.

**Technical protective measures :** Provide good ventilation in process area to prevent formation of vapour.

**Conditions for safe storage, including any incompatibilities:**

**Storage :** Keep only in the original container in a cool, well ventilated place. Keep container closed when not in use.

**Storage regulation:** Comply with applicable regulations.

**Storage - away from :** Strong bases. Strong acids. Sources of ignition. Direct sunlight.

## Section 8: Exposure Controls/Personal Protection

### Exposure controls:

**Personal protection:** Avoid all unnecessary exposure.

- **Respiratory protection:** Wear approved mask.
- **Hand protection:** Wear protective gloves.
- **Skin protection:** Wear suitable protective clothing.
- **Eye protection:** Chemical goggles or safety glasses.
- **Others:** When using, do not eat, drink or smoke.

### Control parameters:

**Occupational Exposure Limits:** No data available.

**Occupational Exposure Limits:** Potassium hydroxide : OEL (UK)-STEL [ppm] : 2  
Potassium hydroxide : HTP-värden - 8 H - [mg/m<sup>3</sup>] : 2  
Potassium hydroxide : NGV - [mg/m<sup>3</sup>] : 1  
Potassium hydroxide : VLA-EC [mg/m<sup>3</sup>] : 2

## Section 9: Physical and Chemical Properties

Physical state and appearance	: Liquid.
Odor	: Characteristic.
Taste	: Not available.
Molecular Weight	: Not available.
Color	: Colorless.
pH (1% soln/water)	: Not available.
Boiling Point	: 100°C
Melting Point	: Not available.
Critical Temperature	: Not available.
Specific Gravity	: Not available.
Vapor Pressure	: 17.535 mm of Hg (@ 2
Vapor Density	: Not available.
Volatility	: Not available.
Odor Threshold	: Not available.
Water/Oil Dist. Coeff.	: Not available.
Ionicity (in Water)	: Not available.
Dispersion Properties	: Not available.
Solubility	: Soluble in water.

## Section 10: Stability and Reactivity Data

**Stability:** The product is stable.

**Instability Temperature:** Not available.

**Conditions to avoid:** Direct sunlight. Extremely high or low temperatures.

**Incompatibility with various substances:** Not available.

**Materials to avoid:** Strong acids. Strong bases.

**Special Remarks on Reactivity:** Not available.

**Special Remarks on Corrosivity:** Not available.

**Hazardous decomposition products:** Fumes. Carbon monoxide. Carbon dioxide.  
Thermal decomposition generates : Corrosive vapours.

## Section 11: Toxicological Information

### Information on toxicological effects:

**Toxicity information:** The product has been not fully tested. The calculated risk has been done under the requirements of the EU regulations.

### Acute toxicity:

- **Inhalation:** Based on available data, the classification criteria are not met.
- **Dermal:** Based on available data, the classification criteria are not met.
- **Ingestion:** Harmful if swallowed.

**Irritation:** Based on available data, the classification criteria are not met.

**Corrosion:** Causes severe skin burns and eye damage.

**Sensitization:** Based on available data, the classification criteria are not met.

**Mutagenicity:** Based on available data, the classification criteria are not met.

**Carcinogenicity:** Based on available data, the classification criteria are not met.

**Toxic for reproduction:** Based on available data, the classification criteria are not met.

**STOT-single exposure:** Based on available data, the classification criteria are not met.

**STOT-repeated exposure:** Based on available data, the classification criteria are not met.

**Aspiration hazard:** Based on available data, the classification criteria are not met.

## Section 12: Ecological Information

**Toxicity information:** The product has been not fully tested. The calculated risk has been done under the requirements of the EU regulations.

**BOD5 and COD:** Not available.

**Persistence - degradability:** Biodegradable.

**Bioaccumulative potential:** Not established.

**Toxicity of the Products of Biodegradation:** Not available.

**Special Remarks on the Products of Biodegradation:** Not available.

**Results of PBT and vPvB assessment:** The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

**Environmental precautions:** Avoid release to the environment.

## Section 13: Disposal Considerations

**Waste Disposal:** Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations. Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

## Section 14: Transport Information

### Land transport (ADR-RID)

**Proper shipping name :** POTASSIUM HYDROXIDE SOLUTION

**UN N° :** 1814

**ADR - Class :** 8

**Labelling – Transport :** 8 : Corrosive substance.

### Sea transport (IMDG) [English only]

**Proper shipping name :** POTASSIUM HYDROXIDE SOLUTION

**UN N° :** 1814

**IMO-IMDG - Class or division :** 8 : Corrosive substance.

**IMO-IMDG - Packing group :** II

### Air transport (ICAO-IATA) [English only]

**Proper shipping name :** POTASSIUM HYDROXIDE SOLUTION

**UN N° :** 1814

**IATA - Class or division :** 8 : Corrosive substance.

**IATA - Packing group :** II

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## Section 15: Other Regulatory Information

**Safety, health and environmental regulations/legislation specific for the substance or mixture:**

**Safety, health and environmental regulations/legislation specific for the substance or mixture** : Ensure all national/local regulations are observed.

**REACH Restrictions - Annex XVII** : The components of this product are not subject to restrictions.

**REACH Authorisation - Annex XIV** : The components of this product are not subject to authorization.

**Chemical Safety Assessment:**

**Chemical Safety Assessment** : It has not been carried out.

## Section 16 - Additional Information

**References:** Not available.

**Other Special Considerations:** Not available.

### *Disclaimer:*

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