

# OXFORD LAB FINE CHEM LLP

ISO 9001-2008 Certified Company

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## **MATERIAL SAFETY DATA SHEET**

### **BARIUM PEROXIDE 86%**

**(Extra Pure)**

**MSDS CAS : 1304-29-6**

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

### **Section 1: Chemical Product**

**Product Name : BARIUM PEROXIDE**

**CAS#: 1304-29-6**

**C.I. No.: Not available.**

**Synonym : Not available.**

**Chemical Name: Not available.**

**Chemical Formula: BaO<sub>2</sub>**

**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: 91-250-2390989**  
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## **Section 2: Composition and Information on Ingredients**

### **Composition:**

Name	CAS #	% by Weight
BARIUM PEROXIDE	1304-29-6	100%

## Section 3: Hazards Identification

### Classification of the substance or mixture

Classification according to Regulation (EC) No 1999/45

**Classification** : O; R8  
Xn; R20/22

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

**Health hazards** : Acute toxicity, Inhalation - Category 4 - Warning (CLP : Acute Tox. 4) H332  
Acute toxicity, Oral - Category 4 - Warning (CLP : Acute Tox. 4) H302

**Physical hazards** : Oxidizing solids - Category 1 - Danger (CLP : Ox. Sol. 1) H271

**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**

Assure fresh air breathing. Allow the victim to rest. Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.

#### **Skin contact**

Rinse immediately contaminated clothing and skin with plenty of water before removing clothes. IF ON CLOTHING :

#### **Eye contact**

Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.

#### **Ingestion :**

Obtain emergency medical attention. Call a POISON CENTER or doctor if you feel unwell. Do NOT induce vomiting. Rinse mouth.

### Most important symptoms and effects, both acute and delayed

**Symptoms relating to use** : Danger of serious damage to health by prolonged exposure through inhalation. 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

#### 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

#### Flammable class

: May cause fire or explosion; strong oxidizer.

#### Hazardous combustion products

: Under fire conditions, hazardous fumes will be present.

#### 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.  
In case of major fire and large quantities : Evacuate area. Fight  
fire remotely due to the risk of explosion.

## Section 6: Accidental Release Measures

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

#### For emergency responders

: Equip clean-up crew with proper protection.  
Ventilate area.

#### Special precautions

: No naked lights. No smoking.  
May cause fire or explosion; strong oxidizer.

#### 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 materials for containment and cleaning up

**Clean up methods :** On land, sweep or shovel into suitable containers. Minimize generation of dust.  
Store away from other materials.

## Section 7: Handling and Storage

### Precautions for safe handling Handling

: Take any precaution to avoid mixing with combustibles. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Avoid breathing dust, fume, gas, mist, vapours, spray.

### Technical protective measures

: Provide good ventilation in process area to prevent formation of vapour.  
Proper grounding procedures to avoid static electricity should be followed.

### 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. Keep in fireproof place.

### Storage - away from

: Strong bases. Strong acids. Sources of ignition. Direct sunlight. Heat sources. Combustible material.

### Specific end uses

### Specific end use(s)

: None.

## Section 8: Exposure Controls/Personal Protection

### Personal protection

#### • Respiratory protection

: Avoid all unnecessary exposure.  
: In case of insufficient ventilation, wear suitable respiratory equipment.

#### • Hand protection

: Wear protective gloves.

#### • Eye protection

: Chemical goggles or safety glasses.

#### • Others

: When using, do not eat, drink or smoke.

### Control parameters

### Occupational Exposure Limits

: No data available.

## Section 9: Physical and Chemical Properties

### Information on basic physical and chemical properties

<b>Physical state at 20 °C</b>	<b>: Solid.</b>
<b>Color</b>	<b>: Off white powder</b>
<b>Odor</b>	<b>: Odourless</b>
<b>Odor threshold</b>	<b>: No data available.</b>
<b>pH value</b>	<b>: No data available.</b>
<b>Melting point [°C]</b>	<b>: 4500C</b>
<b>Decomposition point [°C]</b>	<b>: N/A</b>
<b>Critical temperature [°C]</b>	<b>: N/A</b>
<b>Auto-ignition temperature [°C]</b>	<b>: N/A</b>
<b>Flammability (solid, gas)</b>	<b>: N/A</b>
<b>Flash point [°C]</b>	<b>: 21 °C</b>
<b>Boiling point [°C]</b>	<b>: 8000C</b>
<b>Initial boiling point [°C]</b>	<b>: N/A</b>
<b>Final boiling point [°C]</b>	<b>: N/A</b>
<b>Evaporation rate</b>	<b>: N/A</b>
<b>Vapour pressure [20°C]</b>	<b>: N/A</b>
<b>Vapour pressure mm/Hg</b>	<b>: N/A</b>
<b>Vapour density</b>	<b>: N/A</b>
<b>Density [g/cm3]</b>	<b>: 4,96</b>
<b>Relative density, gas (air=1)</b>	<b>: N/A</b>
<b>Relative density, liquid (water=1)</b>	<b>: N/A</b>
<b>Solubility in water [% weight]</b>	<b>: Insoluble in water</b>
<b>Solubility in water</b>	<b>: N/A</b>
<b>Log Pow octanol / water at 20°C</b>	<b>: No data available.</b>
<b>Solubility</b>	<b>: N/A</b>
<b>Viscosity at 40°C [mm2/s]</b>	<b>: N/A</b>
<b>Molecular Weight</b>	<b>: 169.34</b>

### Other information

<b>Explosive properties</b>	<b>: N/A</b>
<b>Explosion limits - upper [%]</b>	<b>: N/A</b>
<b>Explosion limits - lower [%]</b>	<b>: N/A</b>
<b>Oxidizing properties</b>	<b>: May cause fire or explosion; strong oxidizer.</b>

## Section 10: Stability and Reactivity Data

### Reactivity

**Reactivity :** Not established.

### Chemical stability

**Chemical stability :** Stable under recommended storage conditions.

### Possibility of hazardous reactions

**Hazardous reactions :** Not established.

### Conditions to avoid

**Conditions to avoid :** Direct sunlight. Extremely high or low temperatures. Open flame. Overheating. Heat. Sparks.

### Incompatible materials

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

### Hazardous decomposition products

**Hazardous decomposition products :** Fumes. Carbon monoxide. Carbon dioxide.

## Section 11: Toxicological Information

### Information on toxicological effects

#### **Acute toxicity**

• Inhalation	: Harmful if inhaled.
• Dermal	: Based on available data, the classification criteria are not met.
• Ingestion	: Harmful if swallowed.
Corrosion	: Based on available data, the classification criteria are not met.
Irritation	: Based on available data, the classification criteria are not met.
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

**Toxicity information :** Not established.

### Persistence – degradability

**Persistence - degradability :** Biodegradable.

### Bio accumulative potential

**Bio accumulative potential :** Not established.

### Mobility in soil

**Mobility in soil :** Not established.

### Results of PBT and vPvB assessment

**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.

### Other adverse effects

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

## Section 13: Disposal Considerations

### Waste treatment methods

**General:** 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)

<b>Proper shipping name</b>	<b>: BARIUM PEROXIDE</b>
<b>UN N°</b>	<b>: 1449</b>
<b>H.I. nr</b>	<b>: 56</b>
<b>ADR - Class</b>	<b>: 5.1</b>
<b>Labelling - Transport</b>	<b>: 5.1 : Oxidizing substances. 6.1 : Toxic substances.</b>
<b>ADR - Group</b>	<b>: II</b>



## Section 14: Transport Information (Continued)

### Sea transport (IMDG)

**Proper shipping name**

: BARIUM PEROXIDE

**UN N°**

: 1449

**IMO-IMDG - Class or division**

: 5.1 : Oxidizing substances. 6.1 : Toxic substances..

**IMO-IMDG - Packing group**

: II

### Air transport (ICAO-IATA)

**Proper shipping name**

: BARIUM PEROXIDE

**UN N°**

: 1449

**IATA - Class or division**

: 5.1 : Oxidizing substances. 6.1 : Toxic substances.

**IATA - Packing group**

: II

## Section 15: Other Regulatory Information

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

**Safety, health and environmental:** Ensure all national/local regulations are observed.

**Regulations/legislation specific for  
The substance or mixture**

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

**REACH Authorization - 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.



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