

# OXFORD LAB FINE CHEM LLP

ISO 9001-2008 Certified Company

Regd Office: Unit no 12, 1st Floor,  
Neminath Industrial Estate No.6,  
Navghar, Vasai (East), Palghar - 410210.  
Maharashtra, INDIA.

Tel: +91 250 2390032 / 2390989 / 2390990  
Email: sales@oxfordlabchem.com /  
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## MATERIAL SAFETY DATA SHEET

### BES BUFFER 99% (For Biochemistry)

[N,N-Bis(2-HydroxyEthyl)2-AminoEthane-Sulfonic Acid]

MSDS CAS : 10191-18-1

## Section 1: Chemical Product and Company Identification

### Section 1: Chemical Product

Product Name : BES BUFFER

CAS#: 10191-18-1

C.I. No.: Not available.

Synonym : Not available.

Chemical Name: Not available.

Chemical Formula: C<sub>6</sub>H<sub>15</sub>NO<sub>5</sub>S

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.

Mumbai, Maharashtra, INDIA.

Tel: 91-250-2390989

Tel/Fax: 91-250-2390032

## Section 2: Composition and Information on Ingredients

### Composition:

Name	CAS #	% by Weight
BES BUFFER	10191-18-1	100%

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## Section 3: Hazards Identification

### Classification of the substance or mixture

**Classification according to Regulation (EC) No 1999/45**

**Classification** : Xi; R36/37/38

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

**Health hazards** : Specific Target Organ Toxicity - Single exposure - Respiratory tract irritation - Category 3 - Warning (CLP : STOT SE 3) H335  
Eye irritation - Category 2A - Warning (CLP : Eye Irrit. 2) H319  
Skin irritation - Category 2 - Warning (CLP : Skin Corr. 2) H315

**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**

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**

Get medical advice. Specific treatment (see on this label). Wash contaminated clothing before reuse. Wash with plenty of soap and water. If skin irritation occurs :

#### **Eye contact**

Get medical advice. If eye irritation persists : Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes.

#### **Ingestion :**

Obtain emergency medical attention. Rinse mouth. Do NOT induce vomiting.

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

**Symptoms relating to use** : Causes serious eye irritation.  
Causes skin irritation. May cause respiratory irritation.

### 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).

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## 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

**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.

## Section 6: Accidental Release Measures

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

**For emergency responders** : Equip clean-up 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 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.

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**Oxford**  
Range of  
Laboratory Chemicals

## Section 7: Handling and Storage

### Precautions for safe handling Handling

: Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling.

### Technical protective measures

: Provide good ventilation in process area to prevent formation of vapour.

### Special precautions

: Avoid breathing dust, fume, gas, mist, vapours, spray.

### Conditions for safe storage, including any incompatibilities

#### Storage

: Keep only in the original container in a cool, well ventilated place. Keep in fireproof place. Ground/bond container and receiving equipment. Keep container tightly closed.

#### Storage - away from

: Strong bases. Strong acids. Sources of ignition. Direct sunlight.

### Specific end uses

#### Specific end use(s)

: None.

## Section 8: Exposure Controls/Personal Protection

### Personal protection

- Respiratory protection
- Hand protection
- Skin protection
- Eye protection
- Others

- : Avoid all unnecessary exposure.
- : Wear approved mask.
- : Wear protective gloves.
- : Wear suitable protective clothing.
- : Chemical goggles or safety glasses.
- : 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

#### Physical state at 20 °C

: Solid.

#### Color

: White powder

#### Odor

: N/A

#### Odor threshold

: No data available.

## Section 9: Physical and Chemical Properties (Continued)

pH value	: No data available.
Melting point [°C]	: 152 - 154 °C
Decomposition point [°C]	: N/A
Critical temperature [°C]	: N/A
Auto-ignition temperature [°C]	: N/A
Flammability (solid, gas)	: N/A
Flash point [°C]	: N/A
Boiling point [°C]	: N/A
Initial boiling point [°C]	: N/A
Final boiling point [°C]	: N/A
Evaporation rate	: N/A
Vapour pressure [20°C]	: N/A
Vapour pressure mm/Hg	: N/A
Vapour density	: N/A
Density [g/cm <sup>3</sup> ]	: N/A
Relative density, gas (air=1)	: N/A
Relative density, liquid (water=1)	: N/A
Solubility in water [% weight]	: 213.3 g/l at 20 °C
Solubility in water	: N/A
Log Pow octanol / water at 20°C	: No data available.
Solubility	: 2.5- 5.0
Viscosity at 40°C [mm <sup>2</sup> /s]	: N/A
Molecular Weight	: 213.35

### Other information

Explosive properties	: N/A
Explosion limits - upper [%]	: N/A
Explosion limits - lower [%]	: N/A
Oxidizing properties	: No data available.

## Section 10: Stability and Reactivity Data

### Reactivity

Reactivity : Not established.

## Section 10: Stability and Reactivity Data (Continued)

### 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.

### 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 : Based on available data, the classification criteria are not met.
  - Dermal : Based on available data, the classification criteria are not met.
  - Ingestion : Based on available data, the classification criteria are not met.
- Corrosion** : Based on available data, the classification criteria are not met.
- Irritation** : Causes serious eye irritation.  
Causes skin irritation.  
May cause respiratory irritation.

**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** : Causes damage to organ.

**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.

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## 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.

## Section 14: Transport Information

### Land transport (ADR-RID)

**General information** : Not regulated.

### Sea transport (IMDG)

**General information** : Not regulated.

### Air transport (ICAO-IATA)

**General information** : Not regulated.

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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:** 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.

### *Disclaimer:*

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