

# 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

### **CASEIN Purified** **(Fat Free & Low In Vitamins)** **MSDS CAS: 9000-71-9**

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

### Section 1: Chemical Product

**Product Name:** Casein

**CAS#:** 9000-71-9

**Synonym:** Casein is a milk protein, and is a natural by-product of milk.

**Chemical Name:** Casein.

**Chemical Formula:** C<sub>47</sub>-H<sub>48</sub>-N<sub>3</sub>-O<sub>7</sub>-S<sub>2</sub>-Na

**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 |
|--------|-----------|-------------|
| Casein | 9000-71-9 | 100         |

**Toxicological Data on Ingredients:** Not applicable.

## Section 3: Hazards Identification

### Potential Acute Health Effects:

Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation. Non-hazardous in case of ingestion.

### Potential Chronic Health Effects:

**CARCINOGENIC EFFECTS:** Not available.

**MUTAGENIC EFFECTS:** Not available.

**TERATOGENIC EFFECTS:** Not available.

**DEVELOPMENTAL TOXICITY:** Not available.

Repeated or prolonged exposure is not known to aggravate medical condition.

## Section 4: First Aid Measures

### Eye Contact:

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.

### Skin Contact:

Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.

**Serious Skin Contact:** Not available.

### Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**Serious Inhalation:** Not available.

### Ingestion:

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

**Serious Ingestion:** Not available.

## Section 5: Fire and Explosion Data

**Flammability of the Product:** May be combustible at high temperature.

**Auto-Ignition Temperature:** Not available.

**Flash Points:** Not available.

**Flammable Limits:** Not available.

**Products of Combustion:**

These products are carbon oxides (CO, CO<sub>2</sub>), nitrogen oxides (NO, NO<sub>2</sub>...), sulfur oxides (SO<sub>2</sub>, SO<sub>3</sub>...).

**Fire Hazards in Presence of Various Substances:** Slightly flammable to flammable in presence of heat.

**Explosion Hazards in Presence of Various Substances:**

Risks of explosion of the product in presence of mechanical impact: Not available.

Risks of explosion of the product in presence of static discharge: Not available.

**Fire Fighting Media and Instructions:**

SMALL FIRE: Use DRY chemical powder.

LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

**Special Remarks on Fire Hazards:** As with most organic solids, fire is possible at elevated temperatures.

**Special Remarks on Explosion Hazards:** Not available.

## Section 6: Accidental Release Measures

**Small Spill:**

Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

**Large Spill:**

Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

## Section 7: Handling and Storage

### Precautions:

Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not breathe dust. Keep away from incompatibles such as oxidizing agents.

### Storage:

Keep container tightly closed. Keep container in a cool, well-ventilated area.

## Section 8: Exposure Controls/Personal Protection

### Engineering Controls:

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

### Personal Protection:

Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

### Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

### Exposure Limits:

TWA: 10 from ACGIH (TLV) [United States] Total. TWA: 3 from ACGIH (TLV) [United States] Respirable.  
TWA: 15 from OSHA (PEL) [United States] Total. TWA: 5 from OSHA (PEL) [United States] Respirable.  
Consult local authorities for acceptable exposure limits.

## Section 9: Physical and Chemical Properties

**Physical state and appearance:** Solid.

**Odor** : Not available.

**Taste** : Not available.

**Molecular Weight** : Not available.

**Color** : Tan. Off-white(Cream).

**pH (1% soln/water)** : Not available.

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

|                               |                            |
|-------------------------------|----------------------------|
| <b>Boiling Point</b>          | : Not available.           |
| <b>Melting Point</b>          | : Not available.           |
| <b>Critical Temperature</b>   | : Not available.           |
| <b>Specific Gravity</b>       | : Not available.           |
| <b>Vapor Pressure</b>         | : Not available.           |
| <b>Vapor Density</b>          | : Not available.           |
| <b>Volatility</b>             | : Not available.           |
| <b>Odor Threshold</b>         | : Not available.           |
| <b>Water/Oil Dist. Coeff.</b> | : Not available.           |
| <b>Ionicity (in Water)</b>    | : Not available.           |
| <b>Dispersion Properties</b>  | : Not available.           |
| <b>Solubility</b>             | : Insoluble in cold water. |

## Section 10: Stability and Reactivity Data

**Stability:** The product is stable.

**Instability Temperature:** Not available.

**Conditions of Instability:** Excess heat, incompatible materials.

**Incompatibility with various substances:** Reactive with oxidizing agents.

**Corrosivity:** Not available.

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

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

**Polymerization:** Will not occur.

## Section 11: Toxicological Information

**Routes of Entry:** Inhalation. Ingestion.

**Toxicity to Animals:** LD50: Not available. LC50: Not available.

**Chronic Effects on Humans:** Not available.

**Other Toxic Effects on Humans:**

Slightly hazardous in case of skin contact (irritant), of inhalation. Non-hazardous in case of ingestion.

**Special Remarks on Toxicity to Animals:** Not available.

**Special Remarks on Chronic Effects on Humans:** Not available.

**Special Remarks on other Toxic Effects on Humans:**

Acute Potential Health Effects: No significant adverse health effects are expected to occur during normal industrial handling of this material. However, always avoid chemical exposures by following safe hygiene procedures and wearing appropriate personal protection equipment. Skin: No significant effects are expected to occur. May cause skin irritation. Eyes: No significant effects are expected to occur. May cause eye irritation by mechanical action. Inhalation: Under normal conditions, inhalation is not expected to be a problem. It may cause respiratory tract irritation if exposed to dusts. Ingestion: Not expected to be a health hazard via ingestion. However, ingestion of any chemical should be avoided. Chronic Potential Health Effects: Skin: Repeated or prolonged contact with large amounts may cause skin irritation. Eye: Repeated or prolonged exposure may cause irritation and conjunctivitis.

## Section 12: Ecological Information

**Ecotoxicity:** Not available.

**BOD5 and COD:** Not available.

**Products of Biodegradation:**

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

**Toxicity of the Products of Biodegradation:**

The product itself and its products of degradation are not toxic.

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

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## Section 13: Disposal Considerations

### Waste Disposal :

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

## Section 14: Transport Information

### Land transport (ADR-RID)

**General information :** Not regulated.

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

**General information :** Not regulated.

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

**General information :** Not regulated.

## Section 15: Other Regulatory Information

**Federal and State Regulations:** TSCA 8(b) inventory: Casein-Hammersten

### Other Regulations:

**EINECS:** This product is on the European Inventory of Existing Commercial Chemical Substances.

### Other Classifications:

**WHMIS (Canada):** Not controlled under WHMIS (Canada).

**DSCL (EEC):** This product is not classified according to the EU regulations. Not applicable.

### HMIS (U.S.A.):

**Health Hazard:** 1

## Section 15: Other Regulatory Information (Continued)

**Fire Hazard: 1**

**Reactivity: 0**

**Personal Protection: E**

**National Fire Protection Association (U.S.A.):**

**Health: 1**

**Flammability: 1**

**Reactivity: 0**

**Specific hazard:**

**Protective Equipment:**

Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Safety glasses.

## Section 16 - Additional Information

**References:** Not available.

**Other Special Considerations:** Not available.

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