

## **MATERIAL SAFETY DATA SHEET**

### **MENADIONE (For Biochemistry) MSDS CAS : 58-27-5**

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

**Section 1: Chemical Product**

**Product Name : MENADIONE**

**CAS#: 58-27-5**

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

**Synonym : Not available.**

**Chemical Name: Not available.**

**Chemical Formula: Not available.**

**Brand: OXFORD**

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

**Company identification: OXFORD LAB FINE CHEM LLP**

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

**Composition:**

| Name      | CAS #   | % by Weight |
|-----------|---------|-------------|
| MENADIONE | 58-27-5 | 100         |

## 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

Call a POISON CENTER or doctor if you feel unwell. Remove to fresh air and keep at rest in a position comfortable for breathing. **Skin contact**

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

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

## 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 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 materials for contain ent and cleaning up**

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

## Reference to other sections

See section 8. Exposure controls/personal protection

## Section 7: Handling and Storage

### Precautions for safe handling

**Handling** : Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. 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 container closed when not in use.

**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

- |                                 |   |
|---------------------------------|---|
| <b>Personal protection</b>      | : Avoid all unnecessary exposure.         |
| ▸ <b>Respiratory protection</b> | : Wear approved mask.                     |
| ▸ <b>Hand protection</b>        | : Wear protective gloves.                 |
| ▸ <b>Skin protection</b>        | : Wear suitable protective clothing.      |
| ▸ <b>Eye protection</b>         | : Chemical goggles or safety glasses.     |
| ▸ <b>Others</b>                 | : 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  
Colour : Yellowish green powder  
Odour : N/A  
Odour threshold : No data available. pH value  
: Not applicable.

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

Melting point [°C] : 105 - 107 °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] : Insoluble in Water  
Solubility in water : N/A  
Log Pow octanol / water at 20°C : No data available.

**Solubility** : N/A

**Viscosity at 40°C [mm<sup>2</sup>/s]** : N/A

### Other information

**Explosive properties** : N/A

**Explosion limits - upper [%]** : N/A

**Explosion limits - lower [%]** : N/A

**Oxidising properties** : No data available.

## Section 10: Stability and Reactivity Data

### Reactivity

**Reactivity** : Not established.

### Chemical stability

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

**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

: 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.**

### Bioaccumulative potential

**Bioaccumulative 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) [English only]

**General information : Not regulated.**



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

**General information** : Not regulated.

**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 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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The information contained herein in good faith but makes no representations as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.

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