

## **MATERIAL SAFETY DATA SHEET**

### **MALEIC ANHYDRIDE**

**MSDS CAS : 108-31-6**

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

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

**Product Name : MALEIC ANHYDRIDE**

**CAS#: 108-31-6**

**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
MALEIC ANYHYDRIDE	108-31-6	100

## Section 3: Hazards Identification

### Classification of the substance or mixture

Classification according to Regulation (EC) No 1999/45

Classification : Xn; R22  
C; R34  
Xn ; R42/43

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

Health hazards : Skin corrosion - Category 1B - Danger (CLP : Skin Corr. 1B) H314  
Serious eye damage - Category 1 - Danger (CLP : Eye Dam. 1) H318  
Skin sensitisation - Category 1 - Warning (CLP : Skin Sens. 1) H317  
Acute toxicity, Oral - Category 4 - Warning (CLP : Acute Tox. 4) H302  
Respiratory sensitization - Category 1 - Danger (CLP : Resp. Sens. 1) H334

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**

If experiencing respiratory symptoms : 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. Wash contaminated clothing before reuse. If skin irritation or rash occurs : Specific treatment (see on this label). Get medical advice. 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. If eye irritation persists : Get medical advice.

**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. Causes serious eye damage. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. Swallowing a small quantity of this material will result in serious health hazard.

## Section 4: First Aid Measures (Continued)

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 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** : Wash contaminated clothing before reuse. Wash thoroughly after handling. Do not breathe dust, fume, gas, mist, vapours, spray. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace.

**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 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** : Avoid all unnecessary exposure.
- **Hand protection** : Wear approved mask.
- **Skin protection** : Wear protective gloves.
- **Eye protection** : Wear suitable protective clothing.
- **Others** : 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

- Physical state at 20 °C** : Solid
- Colour** : White crystalline
- Odour** : Sharp irritating acrid odor
- Odour threshold** : No data available.

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

pH value	: Not applicable.
Melting point [°C]	: 530 °C
Decomposition point [°C]	: N/A
Critical temperature [°C]	: N/A
Auto-ignition temperature [°C]	: 4770C
Flammability (solid, gas)	: N/A
Flash point [°C]	: 1020C
Boiling point [°C]	: 2020 °C
Initial boiling point [°C]	: N/A
Final boiling point [°C]	: N/A
Evaporation rate	: N/A
Vapour pressure [20°C]	: 0.16 mm Hg @ 200C
Vapour pressure mm/Hg	: N/A
Vapour density	: 3,38
Density [g/cm <sup>3</sup> ]	: 1.48
Relative density, gas (air=1)	: N/A
Relative density, liquid (water=1)	: N/A
Solubility in water [% weight]	: 16.3 g/100ml 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** : Harmful if swallowed.
- **Corrosion** : Causes severe skin burns and eye damage.  
: Causes serious eye damage.

#### Irritation

#### Sensitization

#### Mutagenicity

#### Carcinogenicity

#### Toxic for reproduction

#### STOT-single exposure

#### STOT-repeated exposure

#### Aspiration hazard

- **Irritation** : Based on available data, the classification criteria are not met.
- **Sensitization** : May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
- **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. Dispose of this material and its container to hazardous or special waste collection

## Section 14: Transport Information

### Land transport (ADR-RID)

Proper shipping name	: MALEIC ANHYDRIDE
UN N°	: 2215
H.I. nr	: 80
ADR - Class	: 8
Labelling - Transport	: 8 : Corrosive substance.
ADR - Group	: III

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

Proper shipping name	: MALEIC ANHYDRIDE
UN N°	: 2215
IMO-IMDG - Class or division	: 8 : Corrosive substance.
IMO-IMDG - Packing group	: III

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

Proper shipping name	: MALEIC ANHYDRIDE
UN N°	: 2215
IATA - Class or division	: 8 : Corrosive substance.
IATA - Packing group	: III

## 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.

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## **Section 16 - Additional Information**

**References:** Not available.

**Other Special Considerations:** Not available.

### ***Disclaimer:***

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