

## **MATERIAL SAFETY DATA SHEET**

### **THIOMALIC ACID**

(For synthesis)

MSDS CAS: 70-49-5

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

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

**Product Name:** THIOMALIC ACID

**CAS#:** 70-49-5

**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
THIOMALIC ACID	70-49-5	100

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

## Section 3: Hazards Identification

### Classification of the substance or mixture

#### Classification EC 67/548 or EC 1999/45:

Classification: Xn; R22 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 Skin irritation - Category 2 - Warning (CLP: Skin Corr. 2) H315 Acute toxicity, Oral - Category 4 - Warning (CLP: Acute Tox. 4) H302 Eye irritation - Category 2A - Warning (CLP: Eye Irrit. 2) H319

##### Label elements

#### Labelling EC 67/548 or EC 1999/45:

Symbol(s): Xn: Harmful

R Phrase(s): R22: Harmful if swallowed. R36/37/38: Irritating to eyes, respiratory system and skin.

S Phrase(s): S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36: Wear suitable protective clothing.

##### **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 with plenty of soap and water. Wash contaminated clothing before reuse.

**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. Call a POISON CENTER or doctor if you feel unwell. Do NOT induce vomiting. Rinse mouth.

## Section 4: First Aid Measures (Continued)

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

Symptoms relating to use: Swallowing a small quantity of this material will result in serious health hazard. 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

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.

## Section 6: Accidental Release Measures (Continued)

### Methods and material 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:** Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. 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 tightly closed.

**Storage - away from:** Strong bases. Strong acids. Sources of ignition. Direct sunlight.

**Specific end use(s):** None.

## Section 8: Exposure Controls/Personal Protection

### Exposure controls

**Personal protection:** Avoid all unnecessary exposure.

**Respiratory protection:** Wear approved mask.

**Hand protection:** Wear protective gloves.

**Skin protection:** Wear suitable protective clothing.

**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

Physical state at 20 °C:	Solid.
Colour:	White Powder
Odour:	N/A
Odour threshold:	No data available.
pH value:	Not applicable.
Melting point [°C]:	155-157 °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:** Not established.

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

**Hazardous reactions:** Not established.

**Conditions to avoid:** Direct sunlight. Extremely high or low temperatures.

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

**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:** 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 information:** Not established.

**Persistence - degradability:** Biodegradable.

## Section 12: Ecological Information (Continued)

**Bioaccumulative potential:** Not established.

**Mobility in soil:** Not established.

**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.

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

## Section 13: Disposal Considerations

### **Waste Disposal:**

**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)**

**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:**  
Ensure all national/local regulations are observed.

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



## Section 15: Other Regulatory Information (Continued)

**REACH Authorisation - Annex XIV:** The components of this product are not subject to authorization.

**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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