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## **MATERIAL SAFETY DATA SHEET**

### **METHACRYLIC ACID**

**(For Synthesis)**

**MSDS CAS : 79-41-4**

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

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

**Product Name : METHACRYLIC ACID**

**CAS#: 79-41-4**

**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**  
Unit. No. 12, 1st Floor, Neminath Industrial Estate No. 6,  
Navghar, Vasai (East). Palghar - 401 210.  
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#### **Section 2: Composition and Information on Ingredients**

##### **Composition:**

Name	CAS #	% by Weight
METHACRYLIC ACID	79-41-4	100

## Section 3: Hazards Identification

### Classification of the substance or mixture

Classification according to Regulation (EC) No 1999/45

Classification : Xn; R21/22  
C; R35

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

Health hazards : Acute toxicity, dermal - Category 4 - Warning (CLP : Acute Tox. 4) H312  
Acute toxicity, Oral - Category 4 - Warning (CLP : Acute Tox. 4) H302  
Serious eye damage - Category 1 - Danger (CLP : Eye Dam. 1) H318  
Skin corrosion - Category 1A - Danger (CLP : Skin Corr. 1A) H314

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

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. Specific treatment (see on this label). Wash contaminated clothing before reuse. Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water.

#### Eye contact

Immediately call a POISON CENTER or doctor. Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes.

**Ingestion** : Do NOT induce vomiting. Rinse mouth. 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.

Repeated exposure to this material can result in absorption through skin causing significant health hazard.

Swallowing a small quantity of this material will result in serious health hazard.

## Section 4: First Aid Measures (Continued)

**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.  
Thermal decomposition generates : Corrosive vapours.

#### 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

: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Store away from other materials. Collect spillage.

## Section 6: Accidental Release Measures (Continued)

### Reference to other sections

See section 8. Exposure controls/personal protection

## Section 7: Handling and Storage

### Precautions for safe handling

**Handling** : Do not breathe dust, fume, gas, mist, vapours, spray. Do not eat, drink or smoke when using this product. Avoid contact during pregnancy or while nursing. Wash thoroughly after handling..

**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	: Liquid.
Colour	: Clear Colorless
Odour	: Repulsive
Odour threshold	: No data available.
pH value	: Not applicable.
Melting point [°C]	: 12-16 °C
Decomposition point [°C]	: N/A
Critical temperature [°C]	: N/A
Auto-ignition temperature [°C]	: 365°C
Flammability (solid, gas)	: N/A
Flash point [°C]	: 77°C
Boiling point [°C]	: 163°C
Initial boiling point [°C]	: N/A
Final boiling point [°C]	: N/A
Evaporation rate	: N/A
Vapour pressure [20°C]	: 0.975 mm of Hg (@ 20
Vapour pressure mm/Hg	: 0.975 mm of Hg (@ 20
Vapour density	: 2,97
Density [g/cm <sup>3</sup> ]	: 1.015
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 [%]	: 8,10%
Explosion limits - lower [%]	: 1,60%
Oxidising properties	: No data available.

## Section 10: Stability and Reactivity Data

### Reactivity

Reactivity : Not established.

### 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.  
Thermal decomposition generates : Corrosive vapours.

## Section 11: Toxicological Information

### Information on toxicological effects

#### Acute toxicity

- Inhalation : Based on available data, the classification criteria are not met.
- Dermal : Harmful in contact with skin.
- Ingestion : Harmful if swallowed.
- Corrosion : Causes severe skin burns and eye damage.  
: Causes serious eye damage.
- Irritation : Based on available data, the classification criteria are not met.
- Sensitization : Based on available data, the classification criteria are not met.

## Section 11: Toxicological Information (Continued)

<b>Mutagenicity</b>	: Based on available data, the classification criteria are not met.
<b>Carcinogenicity</b>	: Based on available data, the classification criteria are not met.
<b>Toxic for reproduction</b>	: Based on available data, the classification criteria are not met.
<b>STOT-single exposure</b>	: Based on available data, the classification criteria are not met.
<b>STOT-repeated exposure</b>	: Based on available data, the classification criteria are not met.
<b>Aspiration hazard</b>	: 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 point, in accordance with local, regional, national and/or international regulation.

## Section 14: Transport Information

### Land transport (ADR-RID)

**Proper shipping name** : METHACRYLIC ACID, STABILIZED  
**UN N°** : 2531  
**H.I. nr** : 89  
**ADR - Class** : 8  
**Labelling - Transport** : 8 : Corrosive substance.  
**ADR - Group** : II

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

**Proper shipping name** : CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S.  
**UN N°** : 2531  
**IMO-IMDG - Class or division** : 8 : Corrosive substance.  
**IMO-IMDG - Packing group** : II

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

**Proper shipping name** : CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S.  
**UN N°** : 2531  
**IATA - Class or division** : 8 : Corrosive substance.  
**IATA - Packing group** : II

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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 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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