



TCI Chemicals (India) Pvt. Ltd.

**SAFETY DATA SHEET**

According to 1907/2006/EC, Article 31

Revision number: 3

Revision date: 10/30/2014

**1. IDENTIFICATION****Identification of the substance or preparation**

Product name: Cyclohexyl Methacrylate (stabilized with MEHQ)  
 Product code: M0594

**Use of the substance/preparation**

Recommended use: Reagents

**Company/undertaking identification**

TCI Chemicals (India) Pvt. Ltd.  
 Plot No. B-28, Phase II,  
 5th Cross Street, MEPZ-SEZ, Tambaram,  
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 India  
 Telephone: +91-44-2262 0909

**Emergency telephone number:**

+91-44-2262 0909

**2. HAZARDS IDENTIFICATION****Indication of danger:**

Xi - Irritant

**R-phrases(s)**

R36/37/38 - Irritating to eyes, respiratory system and skin.

**GHS classification****PHYSICAL HAZARDS**

Flammable liquids

Category 4

**HEALTH HAZARDS**

Skin corrosion/irritation

Category 2

Serious eye damage/eye irritation

Category 2

**ENVIRONMENTAL HAZARDS**

Not classified

**GHS label elements, including precautionary statements****Pictograms or hazard symbols****Signal word**

Warning

**Hazard statements**

H227-Combustible liquid.

H315-Causes skin irritation.

H319-Causes serious eye irritation.

**Precautionary statements****[Prevention]**

P210-Keep away from flames and hot surfaces.

P264-Wash hands thoroughly after handling.

P280-Wear protective gloves/protective clothing/eye protection/face protection.

**[Response]**

P305+P351+P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313-If eye irritation persists: Get medical advice/attention.

P302+P352-IF ON SKIN: Wash with plenty of soap and water.

P332+P313-If skin irritation occurs: Get medical advice/attention.

P362-Take off contaminated clothing and wash before reuse.

**[Storage]**

P403+P235-Store in a well-ventilated place. Keep cool.

**[Disposal]**

P501-Dispose of contents/container through a waste management company authorized by the local government

**Other hazards which do not result in classification**

May cause polymerization.

**3. COMPOSITION/INFORMATION ON INGREDIENTS****Substance/mixture:**

Substance

**Components:**

Cyclohexyl Methacrylate (stabilized with MEHQ)

**Percent:**

&gt;98.0%(GC)

**CAS Number:**

101-43-9

**EC-No:**

202-943-5

**M0594****Cyclohexyl Methacrylate  
(stabilized with MEHQ)**

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Synonyms:** Methacrylic Acid Cyclohexyl Ester (stabilized with MEHQ)  
**Chemical Formula:** C<sub>10</sub>H<sub>16</sub>O<sub>2</sub>

### 4. FIRST AID MEASURES

**Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

**Skin contact:** Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.

**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/attention.

**Ingestion:** Get medical advice/attention if you feel unwell. Rinse mouth.

**Most important symptoms/effects, acute and delayed:** Nausea, Dizziness, Headache

**Protection of first-aiders:** A rescuer should wear personal protective equipment, such as rubber gloves and air-tight goggles.

### 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media:** Dry chemical, foam, carbon dioxide.

**Unsuitable extinguishing media:** Water (It may scatter and spread fire.)

**Specific hazards arising from the chemical:** This substance may polymerize explosively when heated or involved in a fire. Container may explode when heated. Combat fire from a sheltered position.

**Precautions for firefighters:** Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Keep containers cool by spraying with water. Eliminate all ignition sources if safe to do so.

**Special protective equipment for firefighters:** When extinguishing fire, be sure to wear personal protective equipment.

### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:** Use personal protective equipment. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc.

**Environmental precautions:** Prevent product from entering drains.

**Methods and materials for containment and cleaning up:** Absorb spilled material in dry sand or inert absorbent before recovering it into a covered container. In case of large amount of spillage, contain a spill by bunding. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

**Prevention of secondary hazards:** Remove all sources of ignition. Fire-extinguishing devices should be prepared in case of a fire. Use spark-proof tools and explosion-proof equipment.

### 7. HANDLING AND STORAGE

#### Precautions for safe handling

**Technical measures:** Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent generation of vapour or mist. Keep away from flames and hot surfaces. Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Wash hands and face thoroughly after handling. Use a closed system, ventilation.

**Advice on safe handling:** Avoid contact with skin, eyes and clothing.

**Conditions for safe storage, including any incompatibilities**

**Storage conditions:** Keep container tightly closed. Store in a cool, dark and well-ventilated place. Store away from incompatible materials such as oxidizing agents.

**Packaging material:** Comply with laws.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering controls:** Install a closed system or local exhaust as possible so that workers should not be exposed directly. Also install safety shower and eye bath.

**Personal protective equipment**

**Respiratory protection:** Vapor respirator. Follow local and national regulations.

**Hand protection:** Protective gloves.

**Eye protection:** Safety glasses. A face-shield, if the situation requires.

**Skin and body protection:** Protective clothing. Protective boots, if the situation requires.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical state (20°C):** Liquid

**Form:** Clear

**Colour:** Colorless - Very pale yellow

**Odour:** Pleasant

**pH:** No data available

**Melting point/freezing point:** No data available

**Boiling point/range:** 72°C/0.7kPa

**Flash point:** 78°C

**Flammability or explosive limits:**

**Lower:** No data available

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Upper:	No data available
Relative density:	0.97
Solubility(ies):	
[Water]	Insoluble
[Other solvents]	No data available

## 10. STABILITY AND REACTIVITY

Chemical stability:	Polymerization may occur under the influences of heat, light or on contact with polymerization initiators such as peroxides etc.
Possibility of hazardous reactions:	No special reactivity has been reported.
Conditions to avoid:	Heat, Open flame, Light
Incompatible materials:	Oxidizing agents, Reducing agents
Hazardous decomposition products:	Carbon monoxide, Carbon dioxide

## 11. TOXICOLOGICAL INFORMATION

Acute Toxicity:
Skin corrosion/irritation:
Serious eye damage/irritation:
Germ cell mutagenicity:
Carcinogenicity:
Reproductive toxicity:

\*We judged that this product was not classified into Class 6.1 Toxic Substance of current edition of IATA Dangerous Goods Regulations (DGR) according to acute toxicity values and/or Quantitative Structure-Activity Relationship (QSAR).

## 12. ECOLOGICAL INFORMATION

Ecotoxicity:	
Fish:	No data available
Crustacea:	No data available
Algae:	No data available
Persistence / degradability:	78% (by BOD), 100% (by GC)
Bioaccumulative potential (BCF):	No data available
Mobility in soil	
Log Pow:	No data available
Soil adsorption (Koc):	No data available
Henry's Law constant (Pa·m <sup>3</sup> /mol):	No data available
Water Hazard Classes (WGK) :	Class 1 - Low hazard to waters

## 13. DISPOSAL CONSIDERATIONS

Recycle to process, if possible. Consult your local regional authorities. You may be able to burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state and local regulations when disposing of the substance.

## 14. TRANSPORT INFORMATION

UN-No:	Not listed
ADR/RID	
Hazards Class:	Does not correspond to the classification standard of the United Nations
IMDG/IMO	
Hazards Class:	Does not correspond to the classification standard of the United Nations
ICAO/IATA	
Hazards Class:	Does not correspond to the classification standard of the United Nations

This substance is not regulated by IATA/ICAO/ARD/RID/IMO/IMDG and is considered to be Non Hazardous for transport by Air/Rail/Road/Sea

## 15. REGULATORY INFORMATION

Indication of danger:	
Xi - Irritant	
In accordance with local and national regulations	
R-phrases)	R36/37/38 - Irritating to eyes, respiratory system and skin.
S-phrases)	S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	S28 - After contact with skin, wash immediately with plenty of soap and water.
	S36 - Wear suitable protective clothing.

## 16. OTHER INFORMATION

Prepared by:	TCI Chemicals (India) Pvt. Ltd.
Issue date:	10/30/2014

This SDS was prepared sincerely on the basis of the information we could obtained, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority.

The products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling, sufficient care should be taken, in addition to the safety measures suitable for the situation. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility.