

# Safety Data Sheet

## According to 91/155 EEC

Printing date 24.06.2009

Revision: 23.06.2009

### 1 Identification of the substance/preparation and of the company/undertaking

· **Product details**

· **Trade name:** methyl methacrylate

**Manufacturer/Supplier:**

Asiatic Chemicals Pakistan



**Address**

30-Mussa Market 2nd Floor,

Opp Sindh Madrasah

Shahrah-e-Liaquat

**Mobile**

0092-320-4320301

**Email**

asiatic-petro@cyber.net.pk

asiatic@asiatic.com.pk

**Tel No**

0092-21-32422537

**Fax No**

0092-21-3241554

### 2 Composition/information on ingredients

· **Chemical characterization:**

· **CAS No. Description**

80-62-6 methyl methacrylate

· **Identification number(s)**

· **EINECS Number:** 201-297-1

· **Index number:** 607-035-00-6

### 3 Hazards identification

· **Hazard description:**



Xi Irritant

F Highly flammable

· **Information concerning particular hazards for human and environment:**

R 11 Highly flammable.

R 37/38 Irritating to respiratory system and skin.

R 43 May cause sensitisation by skin contact.

### 4 First aid measures

· **After inhalation:**

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

· **After skin contact:** Immediately wash with water and soap and rinse thoroughly.

· **After eye contact:** Rinse opened eye for several minutes under running water.

· **After swallowing:** If symptoms persist consult doctor.

### 5 Fire-fighting measures

· **Suitable extinguishing agents:**

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· **For safety reasons unsuitable extinguishing agents:** Water with full jet

· **Protective equipment:** No special measures required.

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### 6 Accidental release measures

- **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:** Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**  
Dilute with plenty of water.  
Ensure adequate ventilation.

### 7 Handling and storage

- **Handling:**
- **Information for safe handling:** No special requirement
- **Information about fire - and explosion protection:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
Keep container tightly sealed.  
Store in cool, dry conditions in well sealed receptacles.

### 8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

- **Ingredients with limit values that require monitoring at the workplace:**

#### 80-62-6 methyl methacrylate

PEL (USA)	410 mg/m <sup>3</sup> , 100 ppm
REL (USA)	410 mg/m <sup>3</sup> , 100 ppm
TLV (USA)	Short-term value: 410 mg/m <sup>3</sup> , 100 ppm Long-term value: 205 mg/m <sup>3</sup> , 50 ppm SEN
WEL (Great Britain)	Short-term value: 416 mg/m <sup>3</sup> , 100 ppm Long-term value: 208 mg/m <sup>3</sup> , 50 ppm

- **Additional information:** The lists valid during the making were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Avoid contact with the skin.  
Avoid contact with the eyes and skin.
- **Respiratory protection:**  
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

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### · Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

### · Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

### · Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

### · Eye protection:



Tightly sealed goggles

## 9 Physical and chemical properties

### · General Information

<b>Form:</b>	Fluid
<b>Colour:</b>	Colourless
<b>Odour:</b>	Acrid

### · Change in condition

**Melting point/Melting range:** -48°C  
**Boiling point/Boiling range:** 101°C

· **Flash point:** 10°C

· **Ignition temperature:** 430°C

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

### · Explosion limits:

<b>Lower:</b>	2.1 Vol %
<b>Upper:</b>	12.5 Vol %

· **Vapour pressure at 20°C:** 47 hPa

· **Density at 20°C:** 0.94 g/cm<sup>3</sup>

· **Solubility in / Miscibility with water at 20°C:** 1.6 g/l

## 10 Stability and reactivity

· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

· **Dangerous reactions** No dangerous reactions known.

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· **Dangerous decomposition products:** No dangerous decomposition products known.

### 11 Toxicological information

· **Acute toxicity:**· **LD/LC50 values relevant for classification:**

Oral	LD50	7872 mg/kg (rat)
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· **Primary irritant effect:**· **on the skin:** Irritant to skin and mucous membranes.· **on the eye:** No irritating effect.· **Sensitization:** Sensitization possible through skin contact.

### 12 Ecological information

· **General notes:**

Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

### 13 Disposal considerations

· **Product:**· **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packaging:**· **Recommendation:** Disposal must be made according to official regulations.

### 14 Transport information

· **Land transport ADR/RID (cross-border)**· **ADR/RID class:** 3 Flammable liquids.· **Danger code (Kemler):** 339· **UN-Number:** 1247· **Packaging group:** II· **Hazard label:** 3· **Description of goods:** 1247 METHYL METHACRYLATE MONOMER, STABILIZED· **Maritime transport IMDG:**· **IMDG Class:** 3· **UN Number:** 1247· **Label:** 3

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- **Packaging group:** II
- **EMS Number:** F-E,S-D
- **Marine pollutant:** No
- **Proper shipping name:** METHYL METHACRYLATE MONOMER, STABILIZED

- **Air transport ICAO-TI and IATA-DGR:**



- **ICAO/IATA Class:** 3
- **UN/ID Number:** 1247
- **Label:** 3
- **Packaging group:** II
- **Proper shipping name:** METHYL METHACRYLATE MONOMER, STABILIZED

### 15 Regulatory information

- **Labelling according to EU guidelines:**  
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

- **Code letter and hazard designation of product:**



Xi Irritant  
F Highly flammable

- **Risk phrases:**

11 Highly flammable.  
37/38 Irritating to respiratory system and skin.  
43 May cause sensitisation by skin contact.

- **Safety phrases:**

2 Keep out of the reach of children.  
24 Avoid contact with skin.  
37 Wear suitable gloves.  
46 If swallowed, seek medical advice immediately and show this container or label.

### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing MSDS:** Product safety department

- **Contact:**

Mr. Menon

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

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*ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)**EINECS: European Inventory of Existing Commercial Chemical Substances**CAS: Chemical Abstracts Service (division of the American Chemical Society)**GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)**LC50: Lethal concentration, 50 percent**LD50: Lethal dose, 50 percent*

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