

# Safety Data Sheet

## According to 91/155 EEC

Printing date 24.06.2009

Revision: 24.06.2009

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

· **Product details**

· **Trade name:** Mono Ethylene Glycol

**Manufacturer/Supplier:**

Asiatic Chemicals Pakistan



**Address**

30-Mussa Market 2nd Floor,

Opp Sindh Madarsah

Shakra-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**

107-21-1 ethanediol

· **Identification number(s)**

· **EINECS Number:** 203-473-3

· **Index number:** 603-027-00-1

### 3 Hazards identification

· **Hazard description:**



Xn Harmful

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

R 22 Harmful if swallowed.

### 4 First aid measures

· **General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

· **After skin contact:** Generally the product does not irritate the skin.

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

· **After swallowing:** Call for a doctor immediately.

### 5 Fire-fighting measures

· **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.

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

### 6 Accidental release measures

· **Person-related safety precautions:** Not required.

(Contd. on page 2)

UAE

# Safety Data Sheet

## According to 91/155 EEC

Printing date 24.06.2009

Revision: 24.06.2009

**Trade name: Mono Ethylene Glycol**

(Contd. of page 1)

- **Measures for environmental protection:**
  - Dilute with plenty of water.
  - Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**
  - Dilute with plenty of water.
  - Dispose contaminated material as waste according to item 13.

### 7 Handling and storage

- **Handling:**
- **Information for safe handling:** No specific requirement
- **Information about fire - and explosion protection:** No special measures required.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.

### 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:**

#### 107-21-1 ethanediol

TLV (USA)	Short-term value: C 100 mg/m <sup>3</sup> H
IOELV (EU)	Short-term value: 104 mg/m <sup>3</sup> , 40 ppm Long-term value: 52 mg/m <sup>3</sup> , 20 ppm Skin
WEL (Great Britain)	Short-term value: 104** mg/m <sup>3</sup> , 40** ppm Long-term value: 10* 52** mg/m <sup>3</sup> , 20** ppm Sk *particulate **vapour

- **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.
  - Wash hands before breaks and at the end of work.
- **Respiratory protection:** Not required.
- **Protection of hands:**
  - 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.

(Contd. on page 3)

UAE

# Safety Data Sheet

## According to 91/155 EEC

Printing date 24.06.2009

Revision: 24.06.2009

Trade name: Mono Ethylene Glycol

(Contd. of page 2)

· **Eye protection:** Goggles recommended during refilling

### 9 Physical and chemical properties

#### · General Information

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

#### · Change in condition

<b>Melting point/Melting range:</b>	-12.4°C
<b>Boiling point/Boiling range:</b>	197°C

· **Flash point:** 111°C· **Ignition temperature:** 410°C· **Danger of explosion:** Product does not present an explosion hazard.

#### · Explosion limits:

<b>Lower:</b>	3.2 Vol %
<b>Upper:</b>	53 Vol %

· **Vapour pressure at 20°C:** 0.08 hPa· **Density at 20°C:** 1.11 g/cm<sup>3</sup>· **Solubility in / Miscibility with water at 20°C:** 1 g/l

#### · Viscosity:

<b>Dynamic at 20°C:</b>	21 mPas
-------------------------	---------

### 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous decomposition products:** No dangerous decomposition products known.

### 11 Toxicological information

#### · Acute toxicity:

#### · LD/LC50 values relevant for classification:

Oral	LD50	5840 mg/kg (rat)
Dermal	LD50	9530 mg/kg (rabbit)

#### · Primary irritant effect:

- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.

UAE

(Contd. on page 4)

# Safety Data Sheet

## According to 91/155 EEC

Printing date 24.06.2009

Revision: 24.06.2009

Trade name: Mono Ethylene Glycol

(Contd. of page 3)

### 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.*

- **Recommended cleansing agents:** *Water, if necessary together with cleansing agents.*

### 14 Transport information

- **Land transport ADR/RID (cross-border)**

- **ADR/RID class:** -

- **Maritime transport IMDG:**

- **IMDG Class:** -

- **Marine pollutant:** No

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

- **ICAO/IATA Class:** -

### 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:**



Xn Harmful

- **Risk phrases:**

*22 Harmful if swallowed.*

- **Safety phrases:**

*2 Keep out of the reach of children.*

### 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*