



ACP

# Asiatic Chemicals Pakistan

Building the Partnership, it's Asiatic Business Principle!

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## 2 Composition/information on ingredients

- **Chemical characterization:**
- **CAS No. Description**  
107-21-1 ethanediol
- **Identification number(s)**
- **EINECS Number:** 203-473-3
- **EU 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.
- **Measures for environmental protection:**  
Dilute with plenty of water.

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# Material Safety Data Sheet

## According to 91/155 EEC

**Trade name: Mono Ethylene Glycol**

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*Do not allow to enter sewers/ surface or ground water.*

**· Measures for cleaning/collecting:**

*Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).*

*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)
TLV (EU)	Short-term value: 104 mg/m <sup>3</sup> , 40 ppm Long-term value: 52 mg/m <sup>3</sup> , 20 ppm
WEL (Great Britain)	Skin Short-term value: 104** mg/m <sup>3</sup> , 40** ppm Long-term value: 10* 52** mg/m <sup>3</sup> , 20** 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.*

*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.*

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

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# Material Safety Data Sheet

## According to 91/155 EEC

**Trade name: Mono Ethylene Glycol**

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### 9 Physical and chemical properties

· **General Information**

**Form:** Fluid  
**Colour:** Colourless  
**Odour:** Sweetish

· **Change in condition**

**Melting point/Melting range:** -12.4°C  
**Boiling point/Boiling range:** 197°C

· **Flash point:** 111°C

· **Ignition temperature:** 410°C

· **Danger of explosion:** Product does not present an explosion hazard.

· **Explosion limits:**

**Lower:** 3.2 Vol %  
**Upper:** 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:** 1.000 g/l

· **Viscosity:**

**Dynamic at 20°C:** 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.

### 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.

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# Material Safety Data Sheet

According to 91/155 EEC

**Trade name: Mono Ethylene Glycol**

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## 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:** -
- **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:** *Terminal Manager*