



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**
111-46-6 2,2'-oxybisethanol
- **Identification number(s)**
- **EINECS Number:** 203-872-2
- **EU Number:** 603-140-00-6

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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UAE

Material Safety Data Sheet

According to 91/155 EEC

Trade name: Di Ethylene Glycol

(Contd. of page 1)

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 special 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:

111-46-6 2,2'-oxybisethanol

WEEL (USA)	10 mg/m ³
WEL (Great Britain)	101 mg/m ³ , 23 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*

9 Physical and chemical properties

General Information

Form:	Fluid
Colour:	Colourless
Odour:	Nearly odourless

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Material Safety Data Sheet

According to 91/155 EEC

Trade name: Di Ethylene Glycol

(Contd. of page 2)

- **Change in condition**
Melting point/Melting range: -8.5°C
Boiling point/Boiling range: 245.5°C
- **Flash point:** 146°C
- **Ignition temperature:** 225°C
- **Danger of explosion:** *Product does not present an explosion hazard.*
- **Explosion limits:**
Lower: 0.7 Vol %
Upper: 22 Vol %
- **Vapour pressure at 20°C:** 0.03 hPa
- **Density at 20°C:** 1.12 g/cm³
- **Solubility in / Miscibility with water:** *Fully miscible.*
- **Viscosity:**
Dynamic at 20°C: 38 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	12565 mg/kg (rat)
Dermal	LD50	11890 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.

13 Disposal considerations

- **Product:**
- **Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.

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Material Safety Data Sheet

According to 91/155 EEC

Trade name: Di Ethylene Glycol

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- **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.
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:** Terminal Manager