

# 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 Di Glycol

**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**

111-77-3 2-(2-methoxyethoxy)ethanol

· **Identification number(s)**

· **EINECS Number:** 203-906-6

· **Index number:** 603-107-00-6

### 3 Hazards identification

· **Hazard description:**



Repr. Cat. 3

Xn Harmful

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

R 63 Possible risk of harm to the unborn child.

### 4 First aid measures

· **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:** 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.

· **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.

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

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- **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 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:**

#### 111-77-3 2-(2-methoxyethoxy)ethanol

IOELV (EU)	50.1 mg/m <sup>3</sup> , 10 ppm Skin
WEL (Great Britain)	50.1 mg/m <sup>3</sup> , 10 ppm Sk

- **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:**



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:** Goggles recommended during refilling

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### 9 Physical and chemical properties

#### · General Information

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

#### · Change in condition

<b>Melting point/Melting range:</b>	-85°C
<b>Boiling point/Boiling range:</b>	194.2°C

<b>· Flash point:</b>	87°C
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<b>· Ignition temperature:</b>	215°C
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<b>· Danger of explosion:</b>	Product does not present an explosion hazard.
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#### · Explosion limits:

<b>Lower:</b>	1.6 Vol %
<b>Upper:</b>	16.1 Vol %

<b>· Vapour pressure at 20°C:</b>	0.27 hPa
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<b>· Density at 20°C:</b>	1.021 g/cm <sup>3</sup>
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<b>· Solubility in / Miscibility with water:</b>	Fully miscible.
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#### · Viscosity:

<b>Dynamic at 20°C:</b>	3.9 mPas
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### 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	5500 mg/kg (rat)
Dermal	LD50	6540 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

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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:**
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Repr. Cat. 3  
Xn Harmful
- **Risk phrases:**  
63 Possible risk of harm to the unborn child.
  - **Safety phrases:**  
2 Keep out of the reach of children.  
36/37 Wear suitable protective clothing and gloves.

### 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)

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*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*

*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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