



Printing date 03.08.2006

Reviewed on 24.07.2006

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

- **Product details**
- **Trade name:** Methyl Di Glycol
- **Manufacturer/Supplier:**  
Petrochem Middle East FZE  
PO Box 17028,  
Jebel Ali Free Zone  
Dubai, UAE  
Ph +971 4 8839222; Fax +971 4 8834133
- **Further information obtainable from:** Product safety department.

**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
- **EU 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:**

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:** Not required.
- **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

**9 Physical and chemical properties****· General Information**

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

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- **Change in condition**  
Melting point/Melting range: -85°C  
Boiling point/Boiling range: 194.2°C
- **Flash point:** 87°C
- **Ignition temperature:** 215°C
- **Danger of explosion:** Product does not present an explosion hazard.
- **Explosion limits:**  
Lower: 1.6 Vol %  
Upper: 16.1 Vol %
- **Vapour pressure at 20°C:** 0.27 hPa
- **Density at 20°C:** 1.021 g/cm<sup>3</sup>
- **Solubility in / Miscibility with water:** Fully miscible.
- **Viscosity:**  
Dynamic at 20°C: 3.9 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	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  
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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- **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:**  
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:** Terminal Manager