

# POCH Safety Data Sheet

According to EC Directive 2001/58/CE. Creation date / last update: 2002-10-15 / 2005-06-29

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

### **DIETHYLENE GLYCOL**

Catalogue Numbers: *pure-446510421*;

Use of the substance / preparation: reagent for analysis or synthesis

POCH SA

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## 2. Hazard identification

*Harmful if swallowed.*

## 3. Composition/information on ingredients

Synonyms: *2,2'-dihydroxydiethyl ether; 2,2'-oxydiethanol; diglycol*

CAS-No.: 111-46-6

Molecular mass: 106.12

Molecular formula:  $C_4H_{10}O_3$

WE Number: 203-872-2

EC-Index No.: 603-140-00-6

## 4. First aid measures

After eye contact: *rinse out with plenty of water.*

After skin contact: *wash off with plenty of water. Take off contaminated clothing.*

After swallowing: *make victim drink plenty of water. Induce vomiting. Subsequently administer activated charcoal (20 - 40g in 10% hurry). Summon a doctor.*

After inhalation: *fresh air.*

## 5. Fire-fighting measures

Suitable extinguishing media: *CO<sub>2</sub>, foam, water, powder*

Special risk: *combustible. Formation of explosible mixtures possible with air.*

Special protective equipment for fire fighting:

Other information: *no further requirements*

Prevent fire-fighting water from entering surface water or groundwater. Cool container with spray water from a safe distance.

Contain escaping vapours with water.

## 6. Accidental release measures

*Do not inhale vapours/aerosols. Take up with liquid- absorbent material. Forward for disposal. Clean up affected area.*

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### 7. Handling and storage

Handling: *Use with adequate ventilation. Use of the basic principles of Industrial Hygiene. Use according to good industry practice. Work under hood. Do not inhale substance. Do not empty into sewerage system. Use protective equipment according to p.8. Avoid skin contact.*

Storage: *tightly closed. Dry well-ventilated place. Room temperature (At +15 to +25 deg C).*

### 8. Exposure controls/personal protection

Specific control parameter: *non established.*

*Provide exhaust ventilation. Ensure the eye wash station and safety showers. Protective equipment should be selected for the working place, depending on concentration and quantity of the hazardous product handled. The resistance of the protective clothing to chemicals should be ascertained with respective supplier.*

Personal protective equipment:

respiratory protection: *required when vapours/aerosols are generated - gas mask with specific absorber.*

eye protection: *required - safety goggles.*

hand protection: *required - protective clothing.*

body protection: *required - protective clothing.*

industrial hygiene: *immediately change contaminated clothing. Apply skin - protective barrier cream. Wash hands and face after working with substance.*

### 9. Physical and chemical properties

Form: *liquid*

Colour: *colourless*

Odour: *almost odourless*

pH value: *(200 g/l H<sub>2</sub>O, 20°C): 6-8*

Melting point: *-10°C*

Boiling point: *244°C*

Ignition temperature: *345°C*

Flash point: *140°C*

Explosion limit:

lower: *0,7 Vol%*

upper: *22 Vol%*

dynamic viscosity: *36,8 mPa\*s (20°C)*

kinematical viscosity:

Vapour pressure: *0,03 hPa (20°C)*

Density: *1,12 g/ml (20°C)*

Bulk density: *not applicable*

Solubility:

in water: *freelysoluble*

in organic solvents: *ethanol, ether*

log P(w/o): *-1,98*

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### 10. Stability and reactivity

Conditions to be avoided: *no further requirements*

Substances to be avoided: *strong oxidizing agents*

Hazardous decomposition products: *no information available*

Other information: *hygroscopic*

### 11. Toxicological information

Toxicological information: *LD50 (oral rat): 12565 mg/kg, LD50 (oral rabbit): 11890 mg/kg, LCL0 (inhalation mouse): 130 mg/m<sup>3</sup>/2h, LDLo(oral, human): 1000 mg/kg.*

Other information: *After swallowing: vomiting, diarrhoea; After absorption of large quantities: tiredness, CNS disorders, toxic effect of kidneys. The product should be handled with the care usual when dealing with chemicals.*

### 12. Ecological information

 *Biodegradation: 91,8%/28d. Log P(w/o): -1,98. No bioaccumulation is to be expected. Toxicity: Fish - L.idus LC100: >10000 mg/l, Gambusia affinis LC50:>32000 mg/l/96h, Daphnia: Daphnia magma EC50:> 10000 mg/l/24h. Algae: Sc. quadricanda ICo: 2700 mg/l/24h, Bacteria: Ps. putida ECo: 8000 mg/l/16h. Protozoa: E. sulcatum ECo: 10745 mg/l/72h. Easily biodegradable. No bioaccumulation is to be expected. Do not allow to enter waters, waste water or soil!*

### 13. Disposal considerations

*POCh product packaging must be disposed of in compliance with the country-specific regulations or must be passed to a packaging return system. Handle contaminated packing in the same way as the substrate itself. Always contact a permitted waste disposal to assure compliance with all current local, state and federal regulations.*

### 14. Transport information

ADR Class and package group: *not subject to transport regulations*

UN Number: *not applicable*

Name (acc. to UN): *not applicable*

### 15. Regulatory information

*Labelling according to EC Directives.*

*Symbol: Xn; Harmful.*

*R-phrases: 22; Harmful if swallowed.*

*S-phrases: 46; If swallowed, seek medical advice immediately and show this container or label.*

*EC label.*

### 16. Other information

*Reason for alteration: general update.*

*Informations contained in this SDS while accurate to the best knowledge*