

# POCH Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH). Creation date / last update: 2002-10-15 / 2008-09-15

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

### **METHANOL**

Catalogue Numbers: 99,9% standard for GC-621990320; pure-621990426; pure p. a.-621990110; for environmental-621990892; for environmental-621991898; for pesticide analysis-621993194; for HPLC-621991154; for HPLC - super gradient-621995156; for determination volatile organic compounds-621992893; for spectroscopy-621990839; for DNA synthesis and peptides-621990690; Pochsolv-621994151; specially pure-621990611; technical-622005792; -C17C11X;

Use of the substance / preparation: analytical reagent, chemical reagent for synthesis, solvent

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## 2. Hazard identification

*Highly flammable. Toxic by inhalation, in contact with skin and if swallowed. Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.*

## 3. Composition/information on ingredients

Synonyms: *methyl alcohol; carbinol*

CAS-No.: 67-56-1

Molecular mass: 32.04

Molecular formula:  $CH_3OH$

WE Number: 200-659-6

EC-Index No.: 603-001-00-X

## 4. First aid measures

After eye contact: *rinse out with plenty of water with the eyelid held wide open. Call in opthalmologist.*

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

After swallowing: *fresh air. Make victim drink ethanol (e.g. 1 drinking glass of a 40% alcoholic beverage). Call in physician, mentioning methanol ingestion. If breathing stops: immediately apply mouth- to- mouth resuscitation.*

After inhalation: *fresh air. If necessary, apply mouth- to- mouth resuscitation or mechanical ventilation.*

## 5. Fire-fighting measures

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

Special risk: *combustible. Vapours heavier than air. Formation of explosible mixtures possible with air. Keep away from sources of fire.*

*Take measures to prevent electrostatic charging. Development of hazardous gases or vapours possible in the event of fire.*

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

*Ensure supply of fresh air in enclosed rooms. Do not inhale vapours/aerosols. Take up with liquid- absorbent material. Forward for disposal. Clean up affected area.*

## METHANOL

### 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. Protect against electrostatic charges. Keep away from source of ignition.*

Storage: *tightly closed. Dry well-ventilated place. Keep away from sources of ignition and heat. Room temperature (At +15 to +25 deg C). Accessible only for authorized persons.*

### 8. Exposure controls/personal protection

Specific control parameter: *max. workplace conc.: 100 mg/m<sup>3</sup>, peak limit: 300 mg/m<sup>3</sup>*

*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: *characteristic ethanolic*

pH value: *not available*

Melting point: *-98°C*

Boiling point: *65°C*

Autoignition temperature: *455°C*

Flash point: *11°C*

Explosion limit:

lower: *5,5 Vol%*

upper: *36,5 Vol%*

dynamic viscosity: *(20°C): 0,597 mPa\*s*

kinematical viscosity:

Vapour pressure: *128 mbar (20°C)*

Density: *0,79 g/cm<sup>3</sup> (20°C)*

Bulk density: *not applicable*

Solubility:

in water: *soluble*

in organic solvents: *not available*

log P(w/o): *-0,74*

## METHANOL

### 10. Stability and reactivity

Conditions to be avoided: *no information available*

Substances to be avoided: *acid chlorides, alkali metals, alkaline earth metals, hydrides, zinc diethyl, halogens, oxidizing agents (acids, salts of oxyhalogenic acids, halogen oxides, chromic anhydride, nitric acid, chromosulfuric acid).*

Hazardous decomposition products: *no information available*

Other information: *hygroscopic. Explosible with air. Unsuitable working materials: various plastics, aluminium, zinc alloys*

### 11. Toxicological information

Toxicological information: *LD50: (oral rat): 5628 mg/kg, LC50 (inhalation rat): 64000 ppm vol./4 h LDLO: (oral human): 143 mg/kg. Noncarcinogenic in animal experiments.*

Other information: *If fumes inhaled: Irritations to the respiratory tracts. Upon contact with the skin: Risk of cutaneous absorption. Through contact with the eyes: Irritations. If swallowed: nausea, vomiting, headaches, vertigo, intoxication, sight disorders, blindness (irreversible injury of the optic nerve). Systemic effects: acidosis, hypotension, anxiety, spasms, narcosis, coma.*

### 12. Ecological information

*Biodegradation factor: 1. readily biodegradation. Log P(w/o): -0,74. No bioaccumultion is to be expected. Harmfull effect on aquatic organisms. Toxicity: Fish: L. macrochirus LC50: 15400 mg/l/96h. Daphnia: Daphnia magma EC50: > 1000 mg/l/48h. Algea: Sc. quadricanda IC5: 8000 mg/l/8d. Bacteria: Ps. putida EC5: 6600 mg/l/16h. Protozoa: E. sulcatum EC5: 10000 mg/l/72h. Toxic for fish. BOD5: 1,12 g/g, COD: 1,50 g/g, ThOO: 1,5 g/g. 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-specyfic 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: *3,II*

UN Number: *1230*

Name (acc. to UN): *methanol*

## METHANOL

### 15. Regulatory information

Labelling according to EC Directives.

Symbol: F, T; Flammable. Toxic.

R-phrases: 11-23/24/25-39/23/24/25; Highly flammable. Toxic by inhalation, in contact with skin and if swallowed. Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

S-phrases: 7-16-36/37-45; Keep container tightly closed. Keep away from sources of ignition - No smoking. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Wear suitable protective clothing and gloves.

EC label.

### 16. Other information

Reason for alteration: general update.

Informations contained in this SDS while accurate to the best knowledge

