

POCH Safety Data Sheet

According to EC Directive 2001/58/CE. Creation date / last update: 2002-10-15 / 2006-05-29

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

TOLUENE

Catalogue Numbers: 99,9% standard for GC-837040324; pure-837040421; pure p. a.-837040114; for pesticide analysis-837040192; for HPLC-837040153; for spectroscopy-837040833; for DNA synthesis and peptides-837040694; specially pure-837040616;

Use of the substance / preparation: for synthesis, for chromatography, for spectroscopy, for industry.

POCH SA

44-101 Gliwice, Sowinskiego Str. 11

tel.: +48 32 23-92-381; fax: +48 32 23-92-370; e-mail: export@poch.com.pl

Emergency telephone no: +48 606-659-006

2. Hazard identification

Highly flammable. Irritating to the skin. Possible risk of harm to the unborn child. Harmful: May cause lung damage if swallowed. Vapours may cause drowsiness and dizziness. Harmful: danger of serious damage to health by prolonged exposure through inhalation.

3. Composition/information on ingredients

Synonyms: *methylbenzene*

CAS-No.: 108-88-3

Molecular mass: 92.14

Molecular formula: C_7H_8

WE Number: 203-625-9

EC-Index No.: 601-021-00-3

4. First aid measures

After eye contact: *rinse out with plenty of water for at least 10 minutes with the eyelid held wide open. Call in ophthalmologist.*

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

After swallowing: *Laxative: sodium sulfate (1 tablespoon 1/4 l water), paraffin oil (3 mg/kg). Do not give milk, castor oil and alcohol.*

Risk of aspiration.

After inhalation: *fresh air. Keep airways free.*

5. Fire-fighting measures

Suitable extinguishing media: *CO₂, foam, powder*

Special risk: *combustible, vapours heavier than air. Formation of explosible mixtures possible with air. Keep away from sources of heat and fire. Take measures to prevent electrostatic charging.*

Special protective equipment for fire fighting:

Other information: *do not stay in dangerous zone without suitable chemical protection clothing and self-contained breathing apparatus.*

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. Do not allow to enter sewerage system. Ensure supply of fresh air in enclosed rooms.

TOLUENE

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. At +15 to +25 deg C.*

8. Exposure controls/personal protection

Specific control parameter: *max. workplace conc.: 100 mg/m³; peak limit: 350 mg/m³*

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*

pH value: *not available*

Melting point: *-95°C*

Boiling point: *111°C*

Ignition temperature: *535°C*

Flash point: *4°C*

Explosion limit:

lower: *1,2 Vol%*

upper: *8,0 Vol%*

dynamic viscosity: *(20°C): 0,6 mPa*s*

kinematical viscosity: *(20°C): 0,7 mm²/s*

Vapour pressure: *29 mbar (20°C)*

Density: *0,87 g/cm³ (20°C)*

Bulk density: *not applicable*

Solubility:

in water: *0,5 g/l (20°C)*

in organic solvents: *soluble*

log P(w/o): *2,65*

TOLUENE

10. Stability and reactivity

Conditions to be avoided: *high temperature*

Substances to be avoided: *halogens, nitric acid, nitrogen oxides, oxidizing agents, nitroorganic compounds.*

Hazardous decomposition products: *no information available*

Other information: *highly inflammable. Unsuitable working materials: rubber, various plastics*

11. Toxicological information

Toxicological information: *LD50: (oral, rat): 636 mg/kg; LC50: (inhalation, rat): 49 g/m³/4h. LD50(dermal, rabbit): 1214 mg/kg.*

Other information: *after inhalation: irritation symptoms in the respiratory tract, headache, drowsiness, dizziness, absorption. After uptake of large quantities: pneumonia, respiratory paralysis. After skin contact: slight irritations. After long-term exposure to the chemical: dermatitis. Degreasing effect on the skin, possibly followed by secondary inflammation. Danger of skin absorption. After eye contact: slight irritations, mucosal irritations. After swallowing: nausea, vomiting. Risk of aspiration upon vomiting, absorption. Systemic effects: after absorption of large quantities: CNS disorders, inebriation, spasms, unconsciousness, respiratory arrest, cardiovascular failure, death.*

12. Ecological information

Log P(w/o): 2,65. An appreciable bioaccumulation potential is not to be expected. Bioaccumulation factor: 90. Fish: C. auratus LC50: 13 mg/l/96h. P. promelas LC50: 36,2 mg/l/96h. Daphnia magna EC50: 11,5 mg/l/48h. Algae: Selenastrum capricornutum IC50: 12 mg/l/72h. Bacteria: Ptotobacterium phosphoreum EC50: 20 mg/l/30min. Protozoa: E. sulcatum NO EC: 456 mg/l/72h. Biodegradable. Harmfull for aquatic organisms. Toxic effect on fish and plankton. Fish toxicity -LC50: 70 mg/l, Daphnia magna- EC50: 270 mg/l, Ps. putida-EC0: 29 mg/l. 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: *3,II*

UN Number: *1294*

Name (acc. to UN): *toluene*

TOLUENE

15. Regulatory information

Labelling according to EC Directives.

Symbol: F, Xn; Flammable. Harmful.

R-phrases: 11-38-48/20-63-65-67; Highly flammable. Irritating to the skin. Possible risk of harm to the unborn child. Harmful: May cause lung damage if swallowed. Vapours may cause drowsiness and dizziness. Harmful: danger of serious damage to health by prolonged exposure through inhalation.

S-phrases: 36/37-62-46; If swallowed, seek medical advice immediately and show this container or label. If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label. 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

