

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

1-PROPANOL

Catalogue Numbers: 99,9% standard for GC-751460324; pure-751460421; pure p.a.-751460114; for HPLC-751460153;

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

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2. Hazard identification

Highly flammable. Risk of serious damage to eyes. Vapours may cause drowsiness and dizziness.

3. Composition/information on ingredients

Synonyms: *n-propyl alcohol*

CAS-No.: 71-23-8

Molecular mass: 60.1

Molecular formula: $CH_3CH_2CH_2OH$

WE Number: 200-746-9

EC-Index No.: 603-003-00-0

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: *make victim drink plenty of water. Avoid vomiting. Administer activated charcoal (20- 40g in 10% slurry). Immediately summon doctor.*

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

5. Fire-fighting measures

Suitable extinguishing media: *CO₂, foam, water, powder*

Special risk: *combustible. Vapours heavier than air. Formation of explosive mixtures possible with air. Development of hazardous gases or vapours possible in the event of fire. Keep away from sources of fire.*

Special protective equipment for fire fighting:

Other information: *take measure to prevent electrostatic charging*

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. Ensure supply of fresh air in enclosed rooms. Take up with liquid- absorbent material. Forward for disposal. Clean up affected area. Do not allow to enter sewerage system.

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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. 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. Do not use light-weight-metal containers.*

8. Exposure controls/personal protection

Specific control parameter: *max. workplace conc.: 200 mg/m³, peak limit: 600 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: *alcohol-like*

pH value: *almost neutral*

Melting point: *-126,5°C*

Boiling point: *97,4°C*

Autoignition temperature: *360°C*

Flash point: *15°C*

Explosion limit:

lower: *2,1 Vol%*

upper: *13,5 Vol%*

dynamic viscosity: *2,3 mPa*s (20°C)*

kinematical viscosity:

Vapour pressure: *18,7 mbar (20°C)*

Density: *0,8 g/ml (20°C)*

Bulk density: *not applicable*

Solubility:

in water: *soluble*

in organic solvents: *not available*

log P(w/o): *0,25*

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10. Stability and reactivity

Conditions to be avoided: *high temperature*

Substances to be avoided: *strong oxidizing agents, alkali metals and alkaline earth metals, alcoholates*

Hazardous decomposition products: *no information available*

Other information: *explosible with air in a vaporous state*

11. Toxicological information

Toxicological information: *LD50 (oral, rat): 1870 mg/kg, LD50 (skin, rabbit): 4000 mg/kg, LC50 (inhalation, rat): >34mg/l/4h, LOTO (oral, human): 5700 mg/kg*

Other information: *After swallowing: rapid absorption, pain and dizziness, inebriation, unconsciousness, narcosis; After absorption large quantities: respiratory paralysis, coma; After inhalation: symptoms irritations in the respiratory tract; After eye contact: irritations; After skin contact: irritations. The product should be handled with the care usual when dealing with chemicals.*

12. Ecological information

Biodegradation: 75%/20d. Readily biodegradable. log P(o/w): 0,25. No bioaccumulation is to be expected. Toxicity: Fish: P. promelas LC50: 4480 mg/l/96h; Daphnia: Daphnia magna EC50: 3642 mg/l/48h; Algae: Selenastrum capricornutum IC0: 1150 mg/l/48h; Bacteria: Photobacterium phosphoreum EC50: 1770 mg.l.5min.; Protozoa: Tetrahymen pyriformis EC50: 4168 mg/l/48h. COD: 2,23 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-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: *1274*

Name (acc. to UN): *n-propanol*

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15. Regulatory information

Labelling according to EC Directives.

Symbol: F, Xi; Flammable. Irritant.

R-phrases: 11-41-67; Highly flammable. Risk of serious damage to eyes. Vapours may cause drowsiness and dizziness.

S-phrases: 7-16-24-26-39; Keep container tightly closed. Keep away from sources of ignition - No smoking. Avoid contact with skin. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear eye/face protection.

EC label.

16. Other information

Reason for alteration: general update.

Informations contained in this SDS while accurate to the best knowledge

