

POCH Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH). Creation date / last update: 2002-10-15 / 2005-04-22

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

BENZALDEHYDE

Catalogue Numbers: *pure-161530427*;

Use of the substance / preparation: chemical reagent for synthesis

POCH SA

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2. Hazard identification

Harmful if swallowed.

3. Composition/information on ingredients

Synonyms: *bitter almond oil*

CAS-No.: 100-52-7

Molecular mass: 106.13

Molecular formula: C_7H_6O

WE Number: 202-860-4

EC-Index No.: 605-012-00-5

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. Induce vomiting. Summon doctor.*

After inhalation: *fresh air. Consult doctor if victim feeling unwell.*

5. Fire-fighting measures

Suitable extinguishing media: *CO₂, foam, powder*

Special risk: *combustible. Formation of explosive mixtures possible with air. Development of hazardous vapours possible in the event 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

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. Keep away from sources of ignition and heat. At +15 to + 25 deg C. Protect from light.*

8. Exposure controls/personal protection

Specific control parameter: *max. workplace conc.: 10 mg/m³, peak limit: 40 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 to straw-colored*

Odour: *bitter almond-like*

pH value: *5,9 (1 g/l H₂O, 20°C)*

Melting point: *-26°C*

Boiling point: *178 - 180°C*

Autoignition temperature: *190°C*

Flash point: *64°C*

Explosion limit:

lower: *1,4 Vol%*

upper: *8,5 Vol%*

dynamic viscosity: *(25°C): 1,39 mPa*s*

kinematical viscosity:

Vapour pressure: *1,3 hPa (20°C)*

Density: *1,05 g/cm³ (24°C)*

Bulk density: *not applicable*

Solubility:

in water: *4 g/l (20°C)*

in organic solvents: *ethanol*

log P(w/o): *1,48. Bioconcentration factor: 7,8.*

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10. Stability and reactivity

Conditions to be avoided: *high temperature*

Substances to be avoided: *basics, alkali metals, aluminium, iron, performic acid, phenoles, air, oxygen, oxidizing agents.*

Hazardous decomposition products: *no information available*

Other information: *light- sensitive, sensitive to air. Unsuitable working materials: various plastics, aluminium.*

11. Toxicological information

Toxicological information: *LC50(inhalation, rat): 3 mg/l/4h. LD50(oral, rabbit): 1250 mg/kg. After swallowing: damage of kidneys.*

Other information: *LC50(inhalation, rat): 3 mg/l/4h. LD50(oral, rabbit): 1250 mg/kg. We have no description of any toxic symptoms; After eye contact: irritations.; After skin contact: irritations; After inhalation: symptoms irritations in the respiratory tract. The product should be handled with the care usual when dealing with chemicals.*

12. Ecological information

Biodegradation: 66%/ 14d. Log P(w/o): 1,48. Toxicity: Fish: L. macrochirus LC50: 1,0 mg/l/96h. P. promelas LC50: 7,6 mg/l/96h. Algea: Sc. quadricanda IC5: 34 mg/l/8d. Bacteria: Ps. putida EC5: 132 mg/l/16h. Protozoa: E. sulcatum EC5: 0,29 mg/l/72h. Readily biodegradable. No bioaccumulation is to be expected. Substance form poisonous mixtures with water. Daphnia magna: LC50 50 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: *9,III*

UN Number: *1990*

Name (acc. to UN): *benzaldehyde*

15. Regulatory information

Labelling according to *EC Directives.*

Symbol: *Xn; Harmful.*

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

S-phrases: *24; Avoid contact with skin.*

EC label.

16. Other information

Reason for alteration: general update.

Informations contained in this SDS while accurate to the best knowledge