

POCH Safety Data Sheet

According to EC Directive 2001/58/CE. Creation date / last update: 2002-10-15 / 2007-03-15

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

ACETONE

Catalogue Numbers: 99,9% standard for GC-102480321; pure-102480411; pure p. a.-102480111; for environmental-102485891; for pesticide analysis-102485197; for HPLC-102480151; for spectroscopy-102480831; specially pure for semiconductors-102480613; technical-M00015191; -THG000004; -THG000005;

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

POCH SA

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2. Hazard identification

Highly flammable. Irritating to the eyes. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.



3. Composition/information on ingredients

Synonyms: *dimethyl ketone; 2-propanone*

CAS-No.: 67-64-1

Molecular mass: 58.08

Molecular formula: C_3H_6O

WE Number: 200-662-2

EC-Index No.: 606-001-00-8

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: *make victim drink plenty of water. Avoid vomiting. Administer activated charcoal (20- 40g in 10% slurry). Laxative: sodium sulfate (1 tablespoon 1/4 l water). Do not give milk, castro oil. Immediately summon doctor.*

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

5. Fire-fighting measures

Suitable extinguishing media: *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.*

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. 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. Protect from light. At +15 to +25 deg C.*

8. Exposure controls/personal protection

Specific control parameter: *max. workplace conc.: 600 mg/m³, peak limit: 1800 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: *5-6 (395 g/l H₂O, 20°C)*

Melting point: *-95°C*

Boiling point: *56°C*

Ignition temperature: *465°C*

Flash point: *-20°C*

Explosion limit:

lower: *2,5 Vol%*

upper: *13 Vol%*

dynamic viscosity: *0,33 mPa*s (20°C)*

kinematical viscosity:

Vapour pressure: *233 mbar (20°C)*

Density: *0,79 g/cm³ (20°C)*

Bulk density: *not applicable*

Solubility:

in water: *soluble*

in organic solvents: *not available*

log P(w/o): *-0,24*

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10. Stability and reactivity

Conditions to be avoided: *high temperature*

Substances to be avoided: *hydroxides, halogens, halogen organic compounds, oxidizing agents, peroxides, metals, halogen- halogen compounds, nitric acid, nitrating acid, oxyhalogenic compounds, ethanoloamine, alkali metals, nitrozil compounds.*

Hazardous decomposition products: *peroxi compounds*

Other information: *Unsuitable working materials: various plastics, rubber*

11. Toxicological information

Toxicological information: *LD50 (oral, rat): 5800 mg/kg; LC50 (inhalation, rat): 76 mg/l/4h; LD50 (skin, rabbit): 20000 mg/kg.*

Other information: *After swallowing: gastrointestinal complaints, headache, salivation, nausea, vomiting, dizziness, narcosis; After eye contact: risk of corneal clouding; After inhalation: irritations of mucous membranes, In high doses - headache, salivation, nausea, vomiting, dizziness, narcosis. The product should be handled with the care usual when dealing with chemicals.*

12. Ecological information

Biodegradation: 91%/28d. Readily biodegradable. log P(o/w): -0,24. No appreciable bioaccumulation potential is to be expected.

Toxicity: Fish: L. macrochirus LC50: 8300 mg/l/96h; Daphnia: Daphnia magna EC50: 12601-12700 mg/l/48h; Algae: Sc. quadricanda IC5: 7500 mg/l/8d; Bacteria: M. aeruginosa EC5: 530 mg/l/8d, Ps. putida EC5: 1700 mg/l/16h; Protozoa: E. sulcatum EC5: 28 mg/l/72h.

Do not allow to enter waters, waste water or soil. BOD5: 1,85 g/g. COD: 2,07 g/g. No ecological problems are to be expected when the product is handled and used with due care and attention.

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: *1090*

Name (acc. to UN): *acetone*

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15. Regulatory information

Labelling according to EC Directives.

Symbol: F, Xi; Flammable. Irritant.

R-phrases: 11-36-66-67; Highly flammable. Irritating to the eyes. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

S-phrases: 9-16-26; Keep container in a well-ventilated place. Keep away from sources of ignition - No smoking. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

EC label.

16. Other information

Reason for alteration: general update.

Informations contained in this SDS while accurate to the best knowledge

