

POCH Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH). Creation date / last update: 2002-10-15 / 2008-11-25

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

SULFURIC ACID MIN. 95%

Catalogue Numbers: *pure-575000421; pure p. a.-575000115; technical-M00015108; ultra purum-575001830; -THG000020; -THG000021;*

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

POCH SA

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2. Hazard identification

Causes severe burns.



3. Composition/information on ingredients

CAS-No.: 7664-93-9

Molecular mass: 98.08

Molecular formula: H_2SO_4

WE Number: 231-639-5

EC-Index No.: 016-020-00-8

4. First aid measures

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

After skin contact: *wash off with plenty of water. Dab with polyethylene glycol 400. Immediately take off contaminated clothing.*

After swallowing: *make victim drink plenty of water. Avoid vomiting (risk of perforation). Do not attempt to neutralize. Immediately summon doctor.*

After inhalation: *fresh air. Summon doctor.*

5. Fire-fighting measures

Suitable extinguishing media: *in adaption to materials stored in the immediate neighbourhood*

Special risk: *development of hazardous gases or vapours possible in the event of fire: sulfur oxides. Hydrogen may liberate upon contact with metals (danger of explosion)*

Special protective equipment for fire fighting:

Other information: *non-combustible. Contain escaping vapours with spray water. Do not stay in dangerous zone without self-contained breathing apparatus. Prevent fire-fighting water from entering surface water or groundwater*

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. Avoid substance contact. 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. Render harmless: neutralize with dilute sodium hydroxide solution, lime or sodium carbonate.

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7. Handling and storage

Handling: *Unadd waters for product. Dilute for water adding cautiously. 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. Carefully and slowly add acid to water, not reverse.*

Storage: *tightly closed. Dry well-ventilated place. Room temperature (At +15 to +25 deg C).*

8. Exposure controls/personal protection

Specific control parameter: *max. workplace conc.: 1 mg/m³, peak limit: 3 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: *odourless*

pH value: *0,3 (49 g/l H₂O, 25°C)*

Melting point: *-15°C*

Boiling point: *310°C*

Autoignition temperature: *not applicable*

Flash point: *not applicable*

Explosion limit: *not applicable*

lower:

upper:

dynamic viscosity:

kinematical viscosity:

Vapour pressure: *~ 0,0001 mbar (20°C)*

Density: *~ 1,84 g/cm³ (20°C)*

Bulk density: *not applicable*

Solubility:

in water: *soluble (caution !!! development of heat)*

in organic solvents: *ethanol (caution !!! development of heat)*

log P(w/o):

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10. Stability and reactivity

Conditions to be avoided: *high temperature*

Substances to be avoided: *alkali metals and alkaline earth metals, alkaline compounds, ammonium, metals and alloys, phosphorus, phosphorus oxides, hydrides, permanganates, nitrates, nitrites, acetylidene, nitryl, peroxides, water, picrates, organic solvents, nitro compounds, aniline,*

Hazardous decomposition products: *no information available*

Other information: *hygroscopic, has a corrosive effect, incompatible with metals*

11. Toxicological information

Toxicological information: *LD50 (oral rat): 2140 mg/kg (25% solution), LC50 (inhalation rat): 510 mg/m³/2 h (for 100% substance).*

Other information: *After swallowing: severe pain (risk of perforation), nausea, vomiting, diarrhoea; After skin contact: severe burns, ulcerations, skin necrosis; After inhalation: burns of mucous membranes; After eye contact: burns, cornea lesions.*

12. Ecological information

Quantitative data on the ecological effect of this product are not available. Harmful effect on aquatic organisms. Harmful effect due to pH shift. Caustic even in diluted form. Toxic effect on Fish i algae. Does not cause biological oxygen deficit. Endangers drinking - water suppliers if allowed to enter soil and waters in large quantities. Neutralization possible in waste water treatment plants. Do not allow to enter waters, waste water or soil! Daphnia: Daphnia magma EC50: 29 mg/l/24h (pure substance)

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: *8,II*

UN Number: *1830*

Name (acc. to UN): *sulfuric acid >51%*

15. Regulatory information

Labelling according to EC Directives.

Symbol: *C; Corrosive.*

R-phrases: *35; Causes severe burns.*

S-phrases: *26-30-45; In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Never add water to this product. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).*

EC label.

16. Other information

Reason for alteration: general update.

Informations contained in this SDS while accurate to the best knowledge