

POCH Safety Data Sheet

According to EC Directive 2001/58/CE. Creation date / last update: 2002-10-15 / 2005-06-09

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

SULFURIC ACID STANDARD SOLUTION 0,5 MOL/L

Catalogue Numbers: .-575065166;

Use of the substance / preparation: for analysis

POCH SA

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2. Hazard identification

No hazardous product as specified in Directive 67/548/EEC.

3. Composition/information on ingredients

Synonyms: ~ 4,9% SULFURIC ACID SOLUTION

CAS-No.: 7664-93-9

Molecular mass: 98.08

Molecular formula: H_2SO_4

WE Number: 231-639-5

4. First aid measures

After eye contact: *rinse out with plenty of water for at least 15 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. Summon doctor.*

After inhalation: *fresh air.*

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*

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. Rendles harmless: neutralize with sodium carbonate solution.

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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. 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. Under no circumstances eat or drink at workplace. Work under hood. Do not inhale substance.*

9. Physical and chemical properties

Form: *liquid*

Colour: *colourless*

Odour: *odourless*

pH value: *~ 0,6 (20°C)*

Melting point: *not available*

Boiling point: *not available*

Ignition temperature: *not applicable*

Flash point: *not applicable*

Explosion limit: *not applicable*

lower:

upper:

dynamic viscosity:

kinematical viscosity:

Vapour pressure: *not available*

Density: *~ 1,032 g/cm³ (20°C)*

Bulk density: *not applicable*

Solubility:

in water: *soluble*

in organic solvents: *not available*

log P(w/o):

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10. Stability and reactivity

Conditions to be avoided: *high temperature*

Substances to be avoided: *water, alkali metals, alkaline compounds, metals, metal alloys, phosphorus, phosphorus oxides, permanganates, nitrates, nitryl, organic nitrocompounds.*

Hazardous decomposition products: *no information available*

Other information: *no further informations*

11. Toxicological information

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

Other information: *After inhalation of aerosols: irritations of mucous membranes; After skin contact: irritations; After eye contact: burns, cornea lesions; After swallowing: severe pain, nausea, vomiting, diarrhoea*

12. Ecological information

Harmful effect due to pH shift. Do not allow to enter waters, waste water or soil!

Daphnia: Daphnia magna 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,III*

UN Number: *3264*

Name (acc. to UN): *liquid, corrosive, acid, inorganic, N.O.S.*

15. Regulatory information

Labelling according to EC Directives.

Symbol: *not applicable;*

R-phrases: *not applicable;*

S-phrases: *not applicable;*

16. Other information

Reason for alteration: general update.

Informations contained in this SDS while accurate to the best knowledge