

POCH Safety Data Sheet

According to EC Directive 2001/58/CE. Creation date / last update: 2002-10-15 / 2005-05-17

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

NITRIC ACID MIN. 52%

Catalogue Numbers: *technical-M00015016*;

Use of the substance / preparation: for synthesis

POCH SA

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Emergency telephone no: +48 606-659-006

2. Hazard identification

Causes severe burns.



3. Composition/information on ingredients

CAS-No.: 7697-37-2

Molecular mass: 63.01

Molecular formula: HNO_3

WE Number: 231-714-2

EC-Index No.: 007-004-00-1

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 or milk. Avoid vomiting (risk of perforation). Summon doctor.*

After inhalation: *fresh air. Summon doctor.*

5. Fire-fighting measures

Suitable extinguishing media: *CO₂, foam, water*

Special risk: *development of hazardous gases or vapours possible in the event of fire: nitrogen 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. Render harmless: neutralize with dilute sodium hydroxide, sodium carbonate or burnt lime. Avoid substance contact. Do not inhale vapours/aerosols.

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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 place. Keep away from flammable substances. At +15 to + 25 deg C.*

8. Exposure controls/personal protection

Specific control parameter: *max. workplace conc.: 5 mg/m³, peak limit: 10 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 or yellowish*

Odour: *pungent*

pH value: *<1 (20°C)*

Melting point: *~ -19°C*

Boiling point: *~ +116°C*

Ignition temperature: *not applicable*

Flash point: *not applicable*

Explosion limit: *not applicable*

lower:

upper:

dynamic viscosity:

kinematical viscosity:

Vapour pressure: *9 mm Hg (25°C), 17 mm Hg (38°C)*

Density: *1,33 g/cm³ (20°C)*

Bulk density: *not applicable*

Solubility:

in water: *soluble*

in organic solvents: *not available*

log P(w/o): *-2,3 (anhydrous substance)*

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10. Stability and reactivity

Conditions to be avoided: *high temperature*

Substances to be avoided: *organic inflammable compounds, oxidizing agents, organic solvents, H₂O₂, alcohols, ketone, aldehydes, anhydrides, amines, aniline, nitryl, organic nitrocompounds, hydrazine and derivatives, acetylidene, metals, metal alloys, metal oxides, met*

Hazardous decomposition products: *nitric oxides*

Other information: *strong oxidizing agent. Incompatible with metals (releases hydrogen)*

11. Toxicological information

Toxicological information: *LD₅₀ (oral human) - 430 mg/kg, LC₅₀ (inhalation rat) - 67 ppm (NO₂)/4h*

Other information: *Strongly corrosive substance, causes of burns of mucous membranes skin and eyes.; After inhalation: coughing, dyspnoea. May lead to the formation of oedema in the respiratory tract. After swallowing: tissue damage, strong pain, risk of perforation, bloody vomiting, death. The product should be handled with the care usual when dealing with chemicals.*

12. Ecological information

log Pow: -2,3 (anhydrous substance). No appreciable bioaccumulation potential is to be expected. Toxic for aquatic organisms. May contribute to the eutrophication of water supplies. Caustic even in diluted form. Do not allow to enter waters, waste water or soil! Fish: Gambusia affinis LC₅₀: 72 mg/l/96h.

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: *2031*

Name (acc. to UN): *nitric acid <70%*

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15. Regulatory information

Labelling according to EC Directives.

Symbol: C; Corrosive.

R-phrases: 35; Causes severe burns.

*S-phrases: 23-26-36/37/39-45; Do not breathe vapour/spray. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
Wear suitable protective clothing, gloves and eye/face protection.*

EC label.

16. Other information

Reason for alteration: general update.

Informations contained in this SDS while accurate to the best knowledge

