

POCH Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH). Creation date / last update: 2002-10-15 / 2005-06-08

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

SODIUM NITRITE

Catalogue Numbers: *pure-792690421; pure p. a.-792690115; technical-M00015111;*

Use of the substance / preparation: for analysis, for synthesis

POCH SA

44-101 Gliwice, Sowinskiego Str. 11

tel.: +48 32 23-92-381; fax: +48 32 23-92-370; e-mail: export@poch.com.pl

Emergency telephone no: +48 606-659-006

2. Hazard identification

Contact with combustible material may cause fire. Toxic if swallowed. Very toxic to aquatic organisms.

3. Composition/information on ingredients

CAS-No.: 7632-00-0

Molecular mass: 69

Molecular formula: NaNO_2

WE Number: 231-555-9

EC-Index No.: 007-010-00-4

4. First aid measures

After eye contact: *rinse out with plenty of water with the eyelid held wide open. Call in ophthalmologist.*

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

After swallowing: *if victim is still conscious, make him drink plenty of water. Induce vomiting. Administer activated charcoal (20- 40g in 10% slurry). Immediately call in physician. Lavage of stomach.*

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

5. Fire-fighting measures

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

Special risk: *fire- promoting. Keep away from combustible materials. Development of hazardous gases or vapours possible in the event of fire: nitrogen oxides.*

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 dry. Forward for disposal. Clean up affected area. Avoid generation of dusts, do not inhale dusts. Avoid substance contact.

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7. Handling and storage

Handling: *do not use in the food industry. 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. Keep away from sources of ignition and heat. At +15 to + 25 deg C.*

8. Exposure controls/personal protection

Specific control parameter: *no determined.*

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 dusts are generated - respiratory protection.*

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: *solid*

Colour: *white or light yellow*

Odour: *odourless*

pH value: *~ 9.50 g/l H₂O (20°C)*

Melting point: *271°C*

Boiling point: *320°C, termic decomposition >320°C*

Autoignition temperature: *not applicable*

Flash point: *not applicable*

Explosion limit: *not applicable*

lower:

upper:

dynamic viscosity:

kinematical viscosity:

Vapour pressure: *not applicable*

Density: *~ 2,17 g/cm³ (w 20°C)*

Bulk density: *~ 1 050-1 300 kg/m³*

Solubility:

in water:

in organic solvents: *not available*

log P(w/o): *-3,7*

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10. Stability and reactivity

Conditions to be avoided: *no special requirements*

Substances to be avoided: *combustibles, aluminium, ammonium compounds, cyanides, hydrazine and derivatives, nonsaturated hydrocarbons, ethylen oxide, acids.*

Hazardous decomposition products: *no information available*

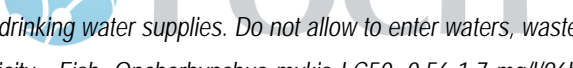
Other information: *fire promotor, hygroscopic*

11. Toxicological information

Toxicological information: *LD50 (oral rat): 85 mg/kg, LC50 (oral human): 4 - 6 g*

Other information: *after inhalation of dusts: slight mucosal irritation. After absorption: nausea, narcosis, cyanosis. After absorption of large quantities: vomiting, unconsciousness, drop in blood pressure, depressed respiration, collapse, methaemoglobinaemia.*

12. Ecological information

 *Toxic for aquatic organisms. Hazard for drinking water supplies. Do not allow to enter waters, waste water or soil! log P(o/w): -3,7. No bioaccumulation is to be expected. Toxicity: Fish: Onchorhynchus mykiss LC50: 0,56-1,7 mg/l/96h, L. idus LC50: 360-565 mg/l/48h; Daphnia: Daphnia magna EC50: 12,5-100 mg/l/48h; Algae: Sc. quadricanda IC50: 1230 mg/l/8d; Bacteria: Ps. putida EC50: 123 mg/l/16h; Protozoa: E. sulcatum EC50: 2,8 mg/l/72h*

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: *5.1,III*

UN Number: *1500*

Name (acc. to UN): *sodium nitrite*

15. Regulatory information

Labelling according to EC Directives.

Symbol: *O, T, N; Oxidizing. Toxic. Dangerous for the Environment.*

R-phrases: *8-25-50; Contact with combustible material may cause fire. Toxic if swallowed. Very toxic to aquatic organisms.*

S-phrases: *45-61; In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Avoid release to the environment. Refer to special instructions / Safety data sheets.*

EC label.

16. Other information

Reason for alteration: general update.

Informations contained in this SDS while accurate to the best knowledge