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1 Identification of the substance/mixture and of the company/undertaking

· **Informations to product No. 2458**

· **Product name:**

Natriumnitrit
Natrii nitris, Natrium nitrosum
Sodium nitrite

· **Supplier of the Product / responsible Company:**

Caesar & Loretz GmbH
Herderstr. 31
40721 Hilden
Tel.: 02103/4994-0
Fax: 02103/32360
e-mail: info@caelo.de

· **Emergency telephone:**

Giftinformationszentrum Mainz
Langenbeckstr. 1, 55131 Mainz
Tel.: 06131/19240

· **Relevant identified uses of the substance or mixture and uses advised against:**

No further relevant information available.

· **Application of the substance / mixture:**

Ingredient for pharmaceutical drugs or active pharmaceutical ingredient.

2 Hazards identification

· **GHS-Labeling Elements:**



· **Signal word:** Danger

· **H-Phrases:**

H272 May intensify fire; oxidizer
H301 Toxic if swallowed
H400 Very toxic to aquatic life


· **P-Phrases:**

P220 Keep/Store away from clothing/.../combustible materials
P202 Do not handle until all safety precautions have been read and understood
P273 Avoid release to the environment

Ox. Sol. 3

Acute Tox. 3

Aquatic Acute 1

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3 Composition / information on ingredients

• **Chemical characterization:**

CAS-No. Substance name

7632-00-0 Sodium nitrite

• **EINECS-No.:** 231-555-9

• **Index-No.:** 007-010-00-4

• **REACH Reg. No.:** 01-2119471836-27-0000

• **INCI-Name:** -

4 First aid measures


- **after inhalation:** Bring the person out of the contaminated area to fresh air, Seek medical help immediately.
- **after skin contact:** Take off contaminated clothes and shoes, wash immediately with plenty of water and soap.
- **after eye contact:** Rinse out with plenty of water with the eyelid wide open , seek medical advice, even if no immediate symptoms are observed.
- **after swallowing:** Drink plenty of water. Induce vomiting. Active coal (20-40g in 10% suspension). Seek medical advice immediately.
- **Medical advice:**
- **The following symptoms might occur:** After resorption: Illness, Narcosis, Cyanosis. After resorption of big quantities: Vomiting, unconsciousness, Drop in blood pressure, respiratory insufficiency, collapse, methemoglobinemia.

5 Fire-fighting measures

- **Suitable extinguishing media:** All regular extinguishing media can be used. Select fire fighting measures suitable to surrounding environment.
- **Specific hazards during fire fighting:** Not combustible but oxidant. In case of fire dangerous vapours/gases can be generated: Smoke gases, nitrogen oxides.
- **Special protective equipment for fire-fighters:** Suitable protective clothes and respiratory protection.
- **Additional information:** Prevent fire extinguishing water from contaminating surface water, the ground water system or soil. Residues must be deposited according to local regulations.

6 Accidental release measures

- **Personal protective measures:** Avoid dust formation.
- **Environmental protective measures:** Prevent from entering into surface water, the ground water system or soil.
- **Methods for cleaning:** Take up dry. Disposal according to Chapter 13 of this MSDS. Clean up with water.

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7 Handling and storage

- **Handling:**
- **Advice on safe handling:** Ensure good ventilation/exhaustion at the workplace. Handling corresponding to laboratory safety guidelines.
- **Storage:**
- **Requirements for storage areas and containers:** Keep container tightly closed. Store at a good ventilated place. Keep away from heat and ignition sources. At room temperature (+15 bis +25°C). Trocken. Accessible only for professional persons.
- **Advices on common storage:** Keep away from combustible substances.

8 Exposure controls / personal protective equipment

- **Personal protective equipment:**
- **Respiratory protection:** Dust protection mask.
- **Hand protection:** Protection gloves of latex or rubber.
- **Eye protection:** Safety glasses.

9 Physical and chemical properties


- **Form:** solid
- **Colour:** white – faint yellow
- **Odour:** odourless
- **Melting point / melting range:** 280 °C (decomposition)
- **Boiling point / boiling range:** not determined
- **Density:** (20 °C) 2,1 g/cm³
- **Bulk density:** ca. 1200 kg/m³
- **Solubility in / Miscibility with**
- **Water:** (20 °C) 820 g/l
- **pH-range:** (100 g/l, 20 °C) ca. 9

10 Stability and reactivity

- **Materials to avoid:** Combustible materials (Explosion hazard!), Aluminium, Ammonium compounds, cyanides, hydrazine and derivatives, unsaturated hydrocarbons, ethylene oxide.
- **Hazardous decomposition products:** Nitrogen oxides.
- **Additional information:** Oxidant; hygroscopic.

11 Toxicological information

- **Acute toxicity:**
- LD/LD50-data relevant for hazard classification:**
- LDLO Man: 71 mg/kg (RTECS)
- LD50 Rat, oral: 85 mg/kg (IUCLID)
- LC50 Rat, inhal. 5,5 mg/l, 4 h
- **Primary irritant effect:**
- On skin: not irritant.

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On eye: slightly irritant.

- **Sensitizing effect:** Not sensitizing.

12 Ecological information

- **Aquatic toxicity:**

Fishes: LC50 Oncorhynchus mykiss 0,54 – 26,3 mg/l/96 h (ECOTOX Database)

Daphnia: EC5 Entosiphon sulcatum 2,8 mg/l/ 72 h (IUCLID)

EC50 Daphnia magna 15,4 mg/l/48 h (OECD 202)

Bacteria: EC50 sludge 510 mg/l/3 h (OECD 209)

- **General advices:** Prevent from entering into environmental waters, waste water or soil. Danger for drinking water!

- **Water hazard class:** 3 (VwVwS): very hazardous for water.

13 Disposal considerations

- **Product:**
- **Recommendation:** Disposal as pharmaceutical waste or inorganic laboratory waste
- **Empty contaminated packaging:**
- **Recommendation:** Disposal according to the local regulations.

14 Transport informations

- **Land transport according to ADR:**
- **Proper shipping name:** Sodium nitrite
- **Class:** 5.1 (6.1)
- **UN-number:** 1500
- **Packing group:** III
- **Classification code:** OT2
- **Limited quantities (Table 3.4.6. ADR):** 5 kg
- **Hazard classification number:** 56
- **Special provisions (Chapter 3.3 ADR):** -
- **Additional informations for sea transport IMDG:**
- **EMS-No.:** F-A, S-Q
- **Properties:** -

15 Regulatory information

- **Labelling according to actual legislation (GHS, Globally Harmonized System of Classification and Labelling of Chemicals):**

The product is classified and labelled according to GHS-regulations.

- **Hazard symbols:** GHS03, GHS06, GHS09


- **Signal word:** Danger

- **H-Phrases:**

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P273 Avoid release to the environment

• **National regulations (Germany):**

• **Water hazard class:** see chapter 12

• **Storage class TRGS 510:** 5.1B

16 Other Information

The information provided in this MSDS is correct to the best of our knowledge at the date of edition.

• **Reason for last revision:** Adjustment to regulation (EC) 1907/2006 (REACH) and GHS-labelling system.