


<p>Page 1 of 4</p> <p>Print Date 26.11.2018</p>	<p>Material Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)</p> <p>Natriumnitrat cryst.</p>	 <p>Revision Date 26.11.2018</p>
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1 Identification of the substance/mixture and of the company/undertaking

· Informations to product No. 2456

· Product name:

Natriumnitrat cryst.
Natrium nitricum, Natronsalpeter
Sodium nitrate

· 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

2 Hazards identification

· GHS-Labeling Elements:



· Signal word: Danger

· H-Phrases:

H272 May intensify fire; oxidizer

H319 Causes serious eye irritation

· P-Phrases:

P220 Keep/Store away from combustible materials

P280 Wear protective gloves/protective clothing/eye protection/face protection

P305 IF IN EYES

P351 Rinse continuously with water for several minutes

Ox. Sol. 3

Eye Irrit. 2


3 Composition / information on ingredients

· Chemical characterization:

CAS-No. Substance name

7631-99-4 Sodium nitrate

· EINECS-No.: 231-554-3

<p>Page 2 of 4</p> <p>Print Date 26.11.2018</p>	<p>Material Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)</p> <p>Natriumnitrat cryst.</p>	 <p>Revision Date 26.11.2018</p>
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- **REACH Reg. No.:** 01-2119488221-41-0000
- **INCI-Name:** -

4 First aid measures

- **after inhalation:** Bring the person out of the contaminated area to fresh air, Seek medical help immediately. Show product-label or this MSDS.
- **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. If irritation continues, call in ophthalmologist..
- **after swallowing:** Drink water. Induce vomiting. Seek medical advice.
- **Medical advice:**
- **The following symptoms might occur:**
After resorption of big quantities: Methämoglobinämie mit Headache, Cardiac arrhythmias, Drop in blood pressure, Respiratory insufficiency and cramps; Guiding symptom: Cyanosis (Blue colouring of blood).

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 and contact with substance.
- **Environmental protective measures:** Prevent from entering into drains.
- **Methods for cleaning:** Take up dry. Disposal according to Chapter 13 of this MSDS. Clean up with water.

7 Handling and storage

- **Storage:**
- **Requirements for storage areas and containers:** Tightly closed. Store at a dry place. At room temperature (+15°C to +25°C). Keep away from heat and ignition sources. Do not store together with combustible substances.
- **Advices on common storage:** Keep away from combustible substances.
- **Storage temperature:** 15 – 25 °C

<p>Page 3 of 4</p> <p>Print Date 26.11.2018</p>	<p>Material Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)</p> <p>Natriumnitrat cryst.</p>	 <p>Revision Date 26.11.2018</p>
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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
- **Odour:** odourless
- **Melting point / melting range:** 308 °C
- **Boiling point / boiling range:** 600 - 700 ° C (decomposition)
- **Decomposition temperature:** > 380 ° C
- **Density:** (20 °C) 2,26 g/cm³
- **Bulk density:** ca. 1200 kg/m³
- **Solubility in / Miscibility with**
- **Water:** (20 °C) 874 g/l
- **pH-range:** (50 g/l, 20 °C) 5,5 - 8

10 Stability and reactivity


- **Materials to avoid:** Combustible materials, Metal powders, Carbon, organic compounds, sulphur, alkali metals, Sodium phosphite, Sodium thiosulfate, phosphides
- **Hazardous decomposition products:** Nitrogen oxides.

11 Toxicological information

- **Acute toxicity:**
LD50 (rat, oral): 3430 mg/kg (ECHA)
- **Primary irritant effect:**
On skin: Not irritant
On eyes: Irritant
- **Sensitization:** Not sensitizing
- **after swallowing:** Irritations of mucous membranes, Illness, Diarrhea, Vomiting.

12 Ecological information

- **Aquatic toxicity:**
Fishes: LC50 Ictalurus catus 6.200 mg/l/ 96 h
Daphnia: EC50 Daphnia magna 3.581 mg/l/48 h
- **Remark:** Danger for drinking water. Toxic for fishes.
- **General advices:** for water Prevent from entering sewage water or drainage ditch undiluted or unneutralized.
Nitrates can contribute to overfertilization of waters depending on their concentration.
- **Log pOW:** (25 °C) -3,8
- **Water hazard class:** 1 (VwVwS): slightly hazardous for water.

<p>Page 4 of 4</p> <p>Print Date 26.11.2018</p>	<p>Material Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)</p> <p>Natriumnitrat cryst.</p>	 <p>Revision Date 26.11.2018</p>
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13 Disposal considerations

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

14 Transport informations

- **Land transport according to ADR:**
- **Proper shipping name:** Sodium nitrate
- **Class:** 5.1
- **UN-number:** 1498
- **Packing group:** III
- **Classification code:** O2
- **Limited quantities (Table 3.4.6. ADR):** 5 kg
- **Hazard classification number:** 50
- **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, GHS07
- **H-Phrases:**
H272 May intensify fire; oxidizer
H319 Causes serious eye irritation
- **P-Phrases:**
P220 Keep/Store away from combustible materials
P280 Wear protective gloves/protective clothing/eye protection/face protection
P305 IF IN EYES
P351 Rinse continuously with water for several minutes
- **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.