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

- Informations to product No. 2338
- Product name:

Kaliumnitrat
Kalii nitras, Kalium nitricum
Potassium 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

- 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: Warning
- H-Phrases: H272 May intensify fire; oxidizer
- P-Phrases: P220 Keep/Store away from clothing/.../combustible materials

Ox. Sol. 3

3 Composition / information on ingredients

- Chemical characterization:


CAS-No. Substance name

7757-79-1 Potassium nitrate

- EINECS-No.: 231-818-8

- REACH Reg. No.: 01-2119488224-35-0000

- INCI-Name: Potassium Nitrate

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4 First aid measures

- **after inhalation:** Bring the person out of the contaminated area to fresh air.
- **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.

5 Fire-fighting measures

- **Suitable extinguishing media:** Water.
- **Specific hazards during fire fighting:** Oxidant. Keep away from combustible substances. In case of fire dangerous vapours/ gases can be released: Nitrogen oxides. Precipitate released vapours with water.
- **Special protective equipment for fire-fighters:** Suitable protective clothes and respiratory protection.

6 Accidental release measures


- **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.

7 Handling and storage

- **Handling:**
- **Advice on safe handling:** No special measures required.
- **Informations to fire or explosion protection:**
Keep away from ignition sources. Do not smoke.
- **Storage:**
- **Requirements for storage areas and containers:** Do not store together with combustible substances. Keep away from heat and ignition sources.
- **Advices on common storage:**
Keep away from combustible substances

8 Exposure controls / personal protective equipment

- **Personal protective equipment:**
- **Respiratory protection:** If dust is generated: Dust protection mask.
- **Hand protection:** Protection gloves.
- **Eye protection:** Safety glasses.

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9 Physical and chemical properties

- **Form:** solid
- **Colour:** white
- **Odour:** odourless
- **Melting point / melting range:** 334 °C
- **Boiling point / boiling range:** not applicable
- **Flammability (solid, vapours):** Fire hazard in contact with combustible substances.
- **Decomposition temperature:** > 400 °C
- **Density:** (20 °C) 2,109 g/cm³
- **Bulk density:** ca. 800 kg/m³
- **Solubility in / Miscibility with**
- **Water:** (20 °C) 320 g/l
- **pH-range:** (50 g/l, 20 °C) 5,0 – 7,5

10 Stability and reactivity


- **Materials to avoid:** High reactivity with: Metal powders, combustible and organic substances, sulfides, phosphides, magnesium (Explosion hazard!).
- **Hazardous decomposition products:** nitrogen oxides.

11 Toxicological information

- **Acute toxicity:**
LD50/LC50: LD50 = 3750 mg/kg
LD50 = 3540 mg/kg
- **Carcinogenity:** not classified as carcinogene.
- **LD/LD50-data relevant for hazard classification:**
7757-79-1 Potassium nitrate
Oral: LD50: 3015 mg/kg (rat)
- **Primary irritant effect:**
- **on eyes:** Slight irritations.
- **after swallowing:** irritations of mucous membranes, Illness, Vomiting, Diarrhea.
- **Additional toxicological informations:** After resorption of bigger quantities: formation of methemoglobine with headache, cardiac arrhythmias, Drop in blood pressure, respiratory insufficiency, cramps, Guiding symptom: Cyanosis (Blue colouring of blood).

12 Ecological information

- **Aquatic toxicity:**
Fish toxicity: LC50 (Poecilia reticulata): 191 mg/l/96h) (Ecotox database)
Daphnia magna EC0: 490 mg/l/48h. (IUCLID)
- **General advices:**
Prevent from entering into environmental waters, waste water or soil. Danger for drinking water.
- **Water hazard class:** 1 (VwVwS): slightly hazardous for water.

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13 Disposal considerations

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

14 Transport informations

- **Land transport according to ADR:**
- **Proper shipping name:** Potassium nitrate
- **Class:** 5.1
- **UN-number:** 1486
- **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):** 274
- **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
- **Signal word:** Warning
- **H-Phrases:** H272 May intensify fire; oxidizer
- **P-Phrases:** P220 Keep/Store away from clothing/.../combustible materials
- **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.