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

- **Informations to product No. 2449**
- **Product name:**

Natriumhyaluronat
 für kosmetische Zwecke
 Sodium hyaluronate for cosmetical use

- **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:**

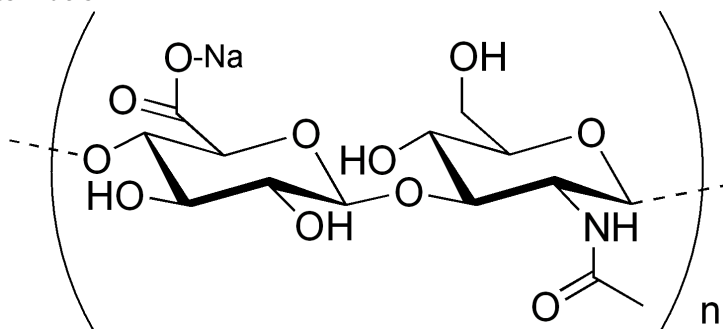
Ingredient for cosmetic formulations.

2 Hazards identification

- **Hazards identification:** The substance is not classified as dangerous according to European Union legislation.

3 Composition / information on ingredients

- **Chemical characterization:**




CAS-No. Substance name

9067-32-7 Sodium hyaluronate

• **EINECS-No.:** 618-620-0

• **REACH Reg. No.:** (pre-registered)

• **INCI-Name:** Sodium Hyaluronate

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4 First aid measures

- **General advices:** No special measures required.
- **after inhalation:** Fresh air
- **after skin contact:** Wash off with water
- **after eye contact:** Rinse out with plenty of water with the eyelid wide open.
- **after swallowing:** If feeling unwell seek medical advice

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:** Combustible, but not flammable. In case of fire dangerous vapours/gases can be generated: Smoke gases.
- **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 contact with substance.
- **Environmental protective measures:** No special measures required.
- **Methods for cleaning:** Take up dry. Disposal according to Chapter 13 of this MSDS. Clean up with water.
- **General information:** No hazardous substances are released.

7 Handling and storage

- **Handling:**
Avoid contact with eyes and skin. Avoid generating dust and aerosols.
Good ventilation if dust is generated.
- **Advice on safe handling:** No special measures required.
- **Informations to fire or explosion protection:** Usual measures for precautional fire protection.
- **Storage:**
• **Requirements for storage areas and containers:**
Keep container tightly closed at a dry and good ventilated place.
Recommended storage temperature: 15-25 °C
- **Advices on common storage:** Not required.

8 Exposure controls / personal protective equipment

- **Personal protective equipment:**
- **Respiratory protection:** Required if dusts are generated.
- **Hand protection:** Protection gloves of rubber or latex.
- **Eye protection:** Safety glasses.

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9 Physical and chemical properties

- **Form:** solid
- **Colour:** white
- **Odour:** odourless.
- **Melting point / melting range:** 192 °C (decomposition)
- **Flash point:** 370 °C
- **Flammability (solid, vapours):** The product is not flammable.
- **Explosion hazard:** The product is not hazardous for explosion, but the explosion of dust-air mixtures is possible.
- **Density:** (20 °C) 0,95 g/cm³
- **Solubility in / Miscibility with**
- **Water:** (20 °C) ca.5 g/l
- **pH-range:** (50g/l, 25 °C) 2,1 – 2,6

10 Stability and reactivity

- **Thermal decomposition / conditions to avoid:**
No decomposition during appropriate use.
- **Hazardous reactions:** No hazardous reactions known.
- **Hazardous decomposition products:** none if used appropriately.

11 Toxicological information


- **Acute toxicity:**
LD/LD50-data relevant for hazard classification:
LD50 Oral - Rabbit - > 1.000 mg/kg
LD50 Oral - Mouse - > 2.400 mg/kg
TDLo Oral - Rat - 2.275 mg/kg
- **Sub-acute / chronic toxicity:** IARC: Not identified as cancerogene.
- **Additional toxicological informations:** In case of appropriate handling and usage the product does not cause harmful effects.

12 Ecological information

- **Information about elimination (persistence and degradability):**
Readily biodegradable.
- **Aquatic toxicity:** No data available.
- **Water hazard class:** 1 (self classification): slightly hazardous for water.

13 Disposal considerations

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

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14 Transport informations

- **Land transport according to ADR:**

Not classified as dangerous in the meaning of transport regulations.

15 Regulatory information

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

The product does not need to be labelled according to GHS-regulations.

- **National regulations (Germany):**

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

- **Storage class TRGS 510:** 11

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.