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| <p>Page 1 of 4</p> <p>Print Date 23.11.2018</p> | <p>Material Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)</p> <p>Hydroxyethylcellulose (nominale Viskosität 300 mPa s)</p> |  <p>Revision Date 23.11.2018</p> |
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1 Identification of the substance/mixture and of the company/undertaking

- **Informations to product No. 4484**
- **Product name:**

Hydroxyethylcellulose (nominal viscosity 300 mPa s) Natrosol® 250 G Pharm., Hydroxyethylcellulosum

- **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

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

3 Composition / information on ingredients

CAS-No. Substance name

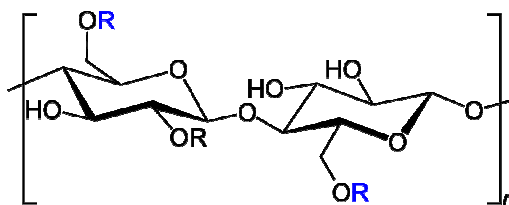
9004-62-0 Hydroxyethylcellulose


- **EINECS-No.:** 618-387-5

- **REACH Reg. No.:** - (Polymer)

- **INCI-Name:** Hydroxyethylcellulose

- **Chemical characterization:** Cellulose with some of the OH-Groups hydroxylated.



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4 First aid measures

- **after inhalation:** Fresh air. Possible disorders: Coughing, sneezing.
- **after skin contact:** Wash away with water and soap.
- **after eye contact:** Rinse out with plenty of water with the eyelid wide open.
- **after swallowing:** Drink water. Induce vomiting. 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. In case of fire dangerous vapours/gases can be generated: Smoke gases.
- **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:** Danger: Wet floors with the product spilled on them can be very slippery.
- **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.

7 Handling and storage

- **Handling:** Avoid dust formation.
- **Advice on safe handling:** Ventilation or exhaustion of working place. Take measures to prevent electrostatic charging.
- **Informations to fire or explosion protection:** Avoid dust formation. Danger of dust explosion.
- **Storage:**
- **Requirements for storage areas and containers:** Tightly closed. Store at a dry place. At room temperature (+15°C to +25°C).

8 Exposure controls / personal protective equipment

- **Personal protective equipment:**
- **General protective and hygiene measures:** The usual precaution measures during handling of chemicals are to observe.
- **Respiratory protection:** Dust protection mask
- **Hand protection:** Protection gloves of rubber or latex
- **Eye protection:** Safety glasses

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9 Physical and chemical properties

- **Form:** Powder or granules
- **Colour:** white
- **Odour:** odourless
- **Melting point / melting range:** not determined
- **Boiling point / boiling range:** not determined
- **Ignition temperature:** 370 °C
- **Explosion hazard:** Dust explosion hazard.
- **Density:** not determined
- **Solubility in / Miscibility with**
- **Water:** soluble with gel-formation, viscosity according to substance name.
- **pH-range:** (20 g/l, 20 °C) 5,0 - 8,5

10 Stability and reactivity

- **Thermal decomposition / conditions to avoid:** No decomposition during appropriate use.
- **Materials to avoid:** Strong oxidants.
- **Hazardous reactions:** No hazardous reactions known.
- **Hazardous decomposition products:** none

11 Toxicological information


- **Acute toxicity:**
- **Primary irritant effect:**
- **on skin:** The results of repeated Insult-Patch-Tests with this product on human skin did not reveal signs of a primary skin irritation or sensitization.
- **on eyes:** Slight irritations possible.
- **after swallowing:** low toxicity.
- **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):** Slowly biodegradable.
- **Water hazard class:** 1 (VwVwS): 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:** Adaption to regulation (EC) 1907/2006 (REACH)