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

- **Informations to product No. 3**
- **Product name:**

Agar-Agar plv.
Agar

- **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.

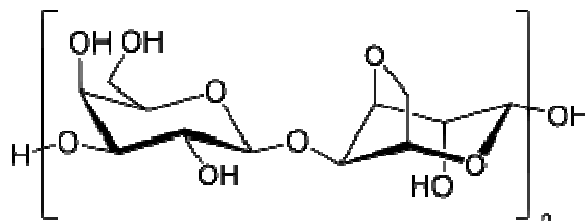
2 Hazards identification

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

3 Composition / information on ingredients

- **Chemical characterization:**

Polysaccharide, used as gelling agent in watery solution. Mixture of agarose (main component) and agarpectin. Agarose is a polymer of agarobiose units, a disaccharide of D-galactose and 3,6-anhydro-L-galactopyranose.




The substance is the primary support for algal cell walls.

CAS-No. Substance name

9002-18-0 Agar

- **EINECS-No.:** 232-658-1

- **REACH Reg. No.:** Exempted from the obligation to register according to Annex 4 / 5 REACH-regulation.

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- **INCI-Name:** Gelidium Amansii (Agar)

4 First aid measures

- **General advices:** No special measures required.
- **After inhalation:** (dust) Coughing. Bring affected person to 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:** (big quantities) If feeling unwell seek medical advice. Due to its indigestibility the substance has a laxative effect.

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.

6 Accidental release measures

- **Methods for cleaning:** Take up dry. Avoid dust formation. Clean up with water.
- **General information:** No hazardous substances are released.

7 Handling and storage


- **Handling:** No special requirements.
- **Advice on safe handling:** No special measures required.
- **Requirements for storage areas and containers:** Tightly closed. Store at a dry place. At room temperature (+15°C to +25°C).
- **Advices on common storage:** Not required.

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:** Not required.

9 Physical and chemical properties

- **Form:** solid

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- **Colour:** yellow - pale brown
- **Odour:** odourless
- **Melting point / melting range:** ca. 85 °C, Solidification point: 32 – 40 °C
- **Boiling point / boiling range:** not determined, decomposition upon strong heating.
- **Explosion hazard:** Big quantities of the powder can form explosive dust – air – mixtures.
- **Density:** not determined
- **Bulk density:** ca. 550 kg/m³
- **Solubility in / Miscibility with**
- **Water:** (60 °C) 20 g/l

10 Stability and reactivity

- **Thermal decomposition / conditions to avoid:**
No decomposition during appropriate use.
- **Hazardous reactions:** No hazardous reactions known.
- **Hazardous decomposition products:**
At high temperatures irritant or harmful vapours are released.

11 Toxicological information

- **Acute toxicity:**
LD/LD50-data relevant for hazard classification:
9002-18-0 Agar
Oral: LD50: 11000 mg/kg (rat)
- **Additional toxicological informations:**
Used as food ingredient E406. Neutral taste and indigestible.
In case of appropriate handling and usage the product does not cause harmful effects.

12 Ecological information


- **General information:** Not toxic for water organisms.
- **Water hazard class:** nwg (self classification): not 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.

14 Transport informations

- **Land transport according to ADR:**
Not classified as dangerous in the meaning of transport regulations.

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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.