


Page 1 of 4 Print Date 26.11.2018	Material Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) Mannitol	 Revision Date 26.11.2018
--	--	---

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

- **Informations to product No. 2413**
- **Product name:**

Mannitol
Mannitolum, Mannit

- **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

CAS-No. Substance name

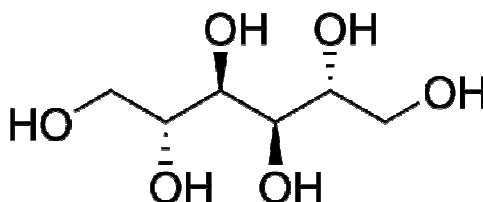
69-65-8 Mannitol


- **EINECS-No.:** 200-711-8

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

- **INCI-Name:** Mannitol

- **Chemical characterization:**



<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>Mannitol</p>	 <p>Revision Date 26.11.2018</p>
---	---	---

4 First aid measures

- **after inhalation:** No special measures required.
- **after skin contact:** No special measures required.
- **after eye contact:** Rinse out with plenty of water with the eyelid wide open.
- **after swallowing:** No special measures required.

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

- **Methods for cleaning:** Take up dry. Disposal according to Chapter 13 of this MSDS. Clean up with water.

7 Handling and storage


- **Handling:** No special requirements.
- **Storage:**
- **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:** Keep away from solvents.

8 Exposure controls / personal protective equipment

- **Personal protective equipment:**
- **Respiratory protection:** Not required.
- **Hand protection:** Not required.
- **Eye protection:** Not required

9 Physical and chemical properties

- **Form:** solid
- **Colour:** white
- **Odour:** Odourless
- **Melting point / melting range:** 165 - 168 °C
- **Boiling point / boiling range:** not determined
- **Density:** Bulk density: 400 - 500 kg/cbm
- **Solubility in / Miscibility with**
- **Water:** (25 °C) 213 g/l
- **pH-range:** (100 g/l, 20 °C) 5 - 7

<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>Mannitol</p>	 <p>Revision Date 26.11.2018</p>
---	---	---

10 Stability and reactivity

- **Thermal decomposition / conditions to avoid:** no informations available.
- **Materials to avoid:** Strong oxidizers
- **Hazardous reactions:** No hazardous reactions known.
- **Hazardous decomposition products:** Carbon monoxide, carbon dioxide (In case of fire)
- **Additional information:** Dust explosion possible.

11 Toxicological information

- **Acute toxicity:** LD50(oral,Rat): 13500 mg/kg
- **Additional toxicological informations:** In animal experiments: Very low acute toxicity.

12 Ecological information

- **Information about elimination (persistence and degradability):**
Naturally occurring substance. Readily biodegradable.
- **Log p_{OW}:** -3,1
ThSB: 1,15 g/g
CSB: 87% ThSB
- **Water hazard class:** 2 (VwVwS): 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.

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

<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>Mannitol</p>	 <p>Revision Date 26.11.2018</p>
---	---	---

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.