


Page 1 of 4  Print Date 28.11.2018	<b>Material Safety Data Sheet</b> according to Regulation (EC) No. 1907/2006 (REACH)  Methionin, racemisch	 Revision Date 28.11.2018
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## 1 Identification of the substance/mixture and of the company/undertaking

· **Informations to product No. 4417**

· **Product name:**

**Methionin, racemisch**  
**DL-Methioninum**

· **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:**

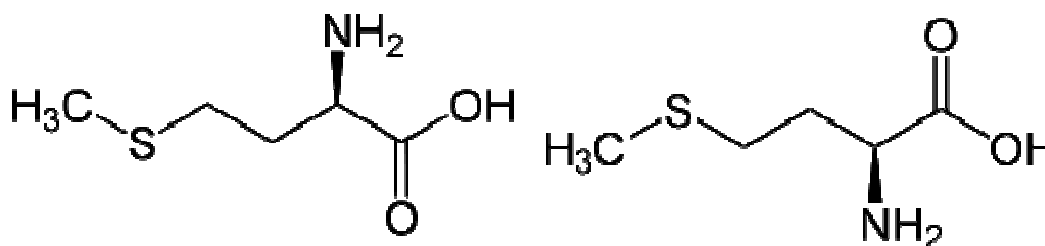
Ingredient for pharmaceutical drugs or active pharmaceutical ingredient.

## 2 Hazards identification

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

## 3 Composition / information on ingredients

· **Chemical characterization:**




**CAS-No. Substance name**

59-51-8 DL-Methionin

· **EINECS-No.:** 200-432-1

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

· **INCI-Name:** Methionine

<p>Page 2 of 4</p> <p>Print Date 28.11.2018</p>	<p><b>Material Safety Data Sheet</b> according to Regulation (EC) No. 1907/2006 (REACH)</p> <p>Methionin, racemisch</p>	 <p>Revision Date 28.11.2018</p>
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#### 4 First aid measures

- **after eye contact:** Rinse out with plenty of water with the eyelid wide open.
- **after swallowing:** (big quantities): Drink water. 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 dust formation.
- **Environmental protective measures:** Prevent from entering into drains.
- **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 ).

#### 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:** Required if dusts are generated.
- **Hand protection:** Not required.
- **Eye protection:** Safety glasses

#### 9 Physical and chemical properties

- **Form:** solid
- **Colour:** white
- **Odour:** faint
- **Melting point / melting range:** 265 - 275 °C Decomposition
- **Boiling point / boiling range:** not determined
- **Ignition temperature:** 390 °C
- **Flash point:** not determined

<p>Page 3 of 4</p> <p>Print Date 28.11.2018</p>	<p><b>Material Safety Data Sheet</b> according to Regulation (EC) No. 1907/2006 (REACH)</p> <p>Methionin, racemisch</p>	 <p>Revision Date 28.11.2018</p>
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- **Density:** (20 °C) 1,34 g/cm<sup>3</sup>  
Bulk density: 480 kg/m<sup>3</sup>
- **Solubility in / Miscibility with**
- **Water:** (20 °C) 48 g/l
- **pH-range:** (10 g/l, 20 °C) 5 - 7

## 10 Stability and reactivity

- **Thermal decomposition / conditions to avoid:**  
Thermal decomposition above 280 °C
- **Hazardous reactions:** No hazardous reactions known.
- **Hazardous decomposition products:** none.

## 11 Toxicological information

- **Acute toxicity:** LD50 (oral, Rat): > 5000 mg/kg. Naturally occurring substance and food component.  
In case of appropriate handling and usage the product does not cause harmful effects.

## 12 Ecological information

- **Aquatic toxicity:**  
Quantitative ecotoxicological data for this product are not available.  
Not acute harmful for water organisms.  
In case of appropriate handling and usage the product does not cause harmful ecological effects.
- **log p(o/w):** -2,41
- **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.

## 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

Page 4 of 4  Print Date 28.11.2018	<b>Material Safety Data Sheet</b> according to Regulation (EC) No. 1907/2006 (REACH)  Methionin, racemisch	 Revision Date 28.11.2018
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· **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.