


<p>Page 1 of 4</p> <p>Print Date 20.11.2018</p>	<p><b>Material Safety Data Sheet</b>  according to Regulation (EC) No.  1907/2006 (REACH)</p> <p>Acetylcystein, API (mikrobielle  Herkunft)</p>	 <p>Revision Date 20.11.2018</p>
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## 1 Identification of the substance/mixture and of the company/undertaking

· **Informations to product No. 2001**

· **Product name:**

### Acetylcystein, API (mikrobielle Herkunft) Acetylcysteinum

· **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:**

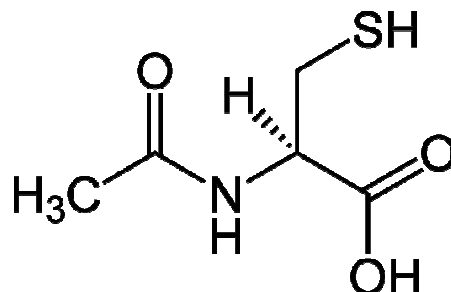
Ingredient for pharmaceutical drugs or active pharmaceutical ingredient.

## 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**

616-91-1 (2R)-2 acetamido-3-sulfanylpropionic acid

· **EINECS-No.:** 210-498-3

· **REACH Reg. No.:** 01-2120766167-47-0000

· **INCI-Name:** Acetyl Cysteine

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#### 4 First aid measures

- **after inhalation:** of dust: Fresh air
- **after skin contact:** Take off contaminated clothes and shoes, wash immediately with plenty of water and soap.
- **after eye contact:** Rinse out with plenty of water with the eyelid wide open.
- **after swallowing:** Drink water. Seek medical advice immediately.

#### 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:** Prevent from entering into surface water, the ground water system or soil.
- **Methods for cleaning:** Take up dry. Avoid generation of dusts. Disposal according to Chapter 13 of this MSDS. Clean up with water

#### 7 Handling and storage

- **Handling:** No special requirements.
- **Advice on safe handling:** No special measures required.
- **Informations to fire or explosion protection:** No special measures required.
- **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:** Not required.
- **Additional informations to storage conditions:** none

#### 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:** Not required.
- **Hand protection:** Not required.

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## 9 Physical and chemical properties

- **Form:** solid
- **Colour:** white
- **Odour:** odourless
- **Melting point / melting range:** 109 - 110 °C
- **Boiling point / boiling range:** 371 °C (Decomposition)
- **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) 0,83 g/cm<sup>3</sup>
- **Solubility in / Miscibility with**
- **Water:** Soluble in alkaline media.
- **pH-range:** (1% in water) 2 – 2,8

## 10 Stability and reactivity

- **Thermal decomposition / conditions to avoid:**  
No decomposition during appropriate use.
- **Hazardous reactions:** No hazardous reactions known.
- **Hazardous decomposition products:** None.

## 11 Toxicological information


- **Acute toxicity:**  
**LD/LD50-data relevant for hazard classification:**  
616-91-1 Acetylcysteine  
Oral: LD50: 5050 mg/kg (rat)  
Oral: LD50: 1140 mg/kg (mouse)
- **Additional toxicological informations:** In case of appropriate handling and usage the product does not cause harmful effects.

## 12 Ecological information

- **Water hazard class:** 2 (VwVwS): hazardous for water.
- **log p(O/W):** -0,03
- **General advices:** Prevent from entering sewage water or drainage ditch undiluted or unneutralized.

## 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.