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

- **Informations to product No. 4083**
- **Product name:**

Silbereiweiß
Argentum proteinicum
Silver proteinate

- **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

- **GHS-Labeling Elements:**



- **Signal word:** Danger

- **H-Phrases:**

H301 Toxic if swallowed
H411 Toxic to aquatic life with long lasting effects


- **P-Phrases:**

P273 Avoid release to the environment
P264 Wash thoroughly after handling
P280 Wear protective gloves/protective clothing/eye protection/face protection
P301 IF SWALLOWED:
P310 Immediately call a POISON CENTER or doctor/physician

Acute Tox. 3

Aquatic Acute 1

Aquatic Chronic 1

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3 Composition / information on ingredients

• **Chemical characterization:**

Complex of silver with caseine (milk proteine).

CAS-No. Substance name

9015-51-4 Albumose silver

• **EINECS-No.:** 685-470-0

• **REACH Reg. No.:** -

• **INCI-Name:** -

4 First aid measures

- **General advices:** No special measures required.
- **after inhalation:** 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. 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:** Not combustible.
- **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.
- **Additional information:** Do not empty into drains, prevent from contaminating surface water or the ground water system.
- **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.
- **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.

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8 Exposure controls / personal protective equipment

Components with limit values that require monitoring at the workplace:

7440-22-4 Silver

MAK: 0,01 mg/m³

- **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:** Protection gloves of rubber or latex
- **Eye protection:** Safety glasses

9 Physical and chemical properties

- **Form:** crystalline
- **Colour:** black
- **Odour:** odourless
- **Melting point / melting range:** 961,3 °C
- **Boiling point / boiling range:** 2180 °C
- **Flammability (solid, vapours):** The product is not flammable.
- **Density:** (20 °C) 10,5 g/cm³
- **Solubility in / Miscibility with**
- **Water:** colloid soluble

10 Stability and reactivity


- **Thermal decomposition / conditions to avoid:**
After strong heating decomposition of the proteine.
- **Materials to avoid:** Strong oxidants.
- **Hazardous reactions:** No hazardous reactions known.
- **Hazardous decomposition products:** none.

11 Toxicological information

- **Acute toxicity:** LD50 (oral, Mouse): 100 mg/kg
- **Primary irritant effect:**
On skin: Slightly irritant
On eyes: Slightly irritant
- **Sensitization:** Not sensitizing

12 Ecological information

- **Aquatic toxicity:**
Fishes: Salmo gairdnerii LC50: 0.029 mg/l/96h;
Carassius auratus LC50: 0.047 mg/l/72h;
Daphnia: Daphnia magna EC50: 0.0052 mg/l/48h.
- **General advices:** Prevent from entering sewage water or drainage ditch even in small quantities.
- **Water hazard class:** 3 (VwVwS): very hazardous for water.

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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 is classified and labelled according to GHS-regulations.
- **Hazard symbols:** GHS06, GHS09
- **Signal word:** Danger
- **H-Phrases:**
H301 Toxic if swallowed
H411 Toxic to aquatic life with long lasting effects
- **P-Phrases:**
P273 Avoid release to the environment
P264 Wash thoroughly after handling
P280 Wear protective gloves/protective clothing/eye protection/face protection
P301 IF SWALLOWED:
P310 Immediately call a POISON CENTER or doctor/physician
- **National regulations (Germany):**
- **Water hazard class:** see chapter 12
- **Storage class TRGS 510:** 6.1D

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.