

<p>Page 1 of 4</p> <p>Print Date 05.04.2019</p>	<p>Material Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)</p> <p>Kolloidales Silber zum äußerlichen Gebrauch</p>	 <p>Revision Date 05.04.2019</p>
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1 Identification of the substance/mixture and of the company/undertaking

· **Informations to product No. 4082**

· **Product name:**

Kolloidales Silber zum äußerlichen Gebrauch

Argentum colloidal ad usum externum

Colloid silver

· **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. 2

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3 Composition / information on ingredients

• **Chemical characterization:**

CAS-No. Substance name

7440-22-4 Silver

• **EINECS-Nummer:** 231-131-3

• **REACH Reg. No.:** 01-2119555669-21-0000

• **INCI-Name:** Silver

• **General information** Dispergens: Caseine (milk proteine).

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.
- **General information:** No hazardous substances are released.

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 colloid silver (100,0%)

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.

• **Water hazard class:** 3 (VwVwS, Annex 3): very hazardous for water.

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• **General advices:**

Prevent from entering sewage water or drainage ditch even in small quantities.

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

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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.