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

· **Informations to product No. 7193**

· **Product name:**

Collodium (4%) Collodium

· **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:**

H224 Extremely flammable liquid and vapour

H302 Harmful if swallowed

H336 May cause drowsiness or dizziness

EUH019 May form explosive peroxides

· **P-Phrases:**

P233 Keep container tightly closed

P403 Store in a well ventilated place

P261 Avoid breathing dust/fume/gas/mist/vapours/spray


P210 Keep away from heat/sparks/open flames/hot surfaces – No smoking

P243 Take precautionary measures against static discharge

Flam. Liq. 1

Acute Tox. 4

STOT SE 3

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2 Composition / information on ingredients

• **Chemical characterization:** Solution of nitrocellulose in ether-ethanol mixture.

• **CAS-No. Substance name**

9004-70-0 Nitrozellulose (4% m/m) GHS01, H201

• **EINECS-No.:** 682-719-5

• **REACH-No.:** (polymer)

• **INCI-Name:** Nitrocellulose

• **CAS-No. Substance name**

60-29-7 Diethylether, (60% m/m), GHS02, GHS08, H224, H302, H336

• **EINECS-No.:** 200-467-2

• **REACH-No.:** 01-2119535785-29-0000

• **INCI-Name:** -

• **CAS-No. Substance name**

64-17-5 Ethanol (36% m/m) GHS02, H225

• **EINECS-No.:** 200-578-6

• **REACH-No.:** 01-2119457610-43-0010

• **INCI-Name:** Alcohol

4 First aid measures

- **After inhalation:** Fresh air. If irritation of respiratory ways continues, seek medical advice.
- **after skin contact:** generally not skin irritant, the solvents have degreasing effect.
- **after eye contact:** Rinse out with plenty of water with the eyelid wide open. Call in ophthalmologist

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. In case of fire dangerous vapours/gases can be generated: Smoke gases.

• **Special protective equipment for fire-fighters:** Suitable protective clothes and respiratory protection.


• **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:** Wear protective equipment. Keep away not protected persons.

• **Environmental protective measures:** Prevent from leaking into sewage water, ground water system or surface waters. Clean up floor with tenside containing water thoroughly.

• **Methods for cleaning:** Good ventilation of working place. Absorb with liquid-binding material: Sand, silica gel, acid binder, universal binder, saw dust. Disposal according to Chapter 13 of this MSDS. Clean up with water.

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• **General information:** The collodium wool can precipitate after dilution with water and obstruct drainage, valves and tubes.
Explosion hazard: Vapours are heavier / denser than air and can form explosive mixtures with air.

7 Handling and storage

- **Handling:**
- **Advice on safe handling:** protect from heat and direct sunlight.
Handle and open containers cautiously: The high volatility of the solvents can cause pressure within the containers..
- **Informations to fire or explosion protection:** Keep away from ignition sources. Do not smoke..
Take measures to prevent electrostatic charging.
- **Storage:**
- **Requirements for storage areas and containers:** Keep container tightly closed, but not gas-proof (valve!) Dry, at room temperature, no direct sunlight.

8 Exposure controls / personal protective equipment

Components with limit values that require monitoring at the workplace (AGW-Limits according to TRGS 900):

60-29-7 Ether

AGW: 1200 mg/m³, 400 ml/m³


64-17-5 Ethanol

AGW: 1900 mg/m³, 1000 ml/m³

- **Personal protective equipment:**
- **General protective and hygiene measures:**
Wash hands before breaks and after work.
- **Respiratory protection:** Respiratory protection or good ventilation of working place..
- **Hand protection:** Protection gloves of nitrile rubber.
- **Eye protection:** Safety glasses.

9 Physical and chemical properties

- **Form:** liquid
- **Colour:** colourless
- **Odour:** strong smell of ether
- **Boiling point / boiling range:** 35 °C
- **Flash point:** -40 °C
- **Ignition temperature:** 180 °C
- **Explosion hazard:** Can form explosive peroxides.
- **Explosion limits:**
- **lower:** 1,7 Vol %
- **upper:** 36,0 Vol %
- **Vapour pressure:** (20 °C) 587 hPa
- **Density:** (20 °C) 0,76 - 0,80 g/cm³
- **Solubility in / Miscibility with**
- **Water:** The ethanol contained in the product is miscible with water and promotes formation of emulsions with water.
- **Organic solvents:** 96 % (ethanol-ether mixture)

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10 Stability and reactivity

- **Thermal decomposition / conditions to avoid:**

Decomposition of dry nitrocellulose above 180 °C.

- **Hazardous decomposition products:** Can form explosive peroxides with air and strong oxidants.

11 Toxicological information

- **Acute toxicity:**

LD/LD50-data relevant for hazard classification:

Ethanol: LD50(oral, Rat): 6200 mg/kg (IUCLID)

LC50(inhal., Rat): 125 mg/l/4h (IUCLID)

Diethyl ether: LD50 Oral - Ratte - 1.215 mg/kg

- **Primary irritant effect:**

- **on skin:** Not irritant (OECD 404)

- **on eyes:** Irritant (OECD 405)

- **on respiratory organs:** Slightly irritant.

- **Sensitization:** no sensitizing effect known.

- **Sub-acute / chronic toxicity:** repeated exposition can cause neuronal damage. These effects were observed only at high dosage (ethanol).

Mutagenity: Not mutagen.

- **Additional toxicological informations:** High concentrations can cause fatigue, vertigo or unconsciousness. Vapours and liquid can cause eye irritations.

12 Ecological information


- **General advices:** Prevent from entering sewage water or drainage ditch undiluted or unneutralized.
- **Water hazard class:** 1 (self classification): slightly hazardous for water.

13 Disposal considerations

- **Product:**
- **Recommendation:** Disposal according to local regulations as pharmaceutical waste or solvent waste.
- **Empty contaminated packaging:**
- **Recommendation:** Disposal according to the local regulations.

14 Transport informations

- **Land transport according to ADR:**
- **Proper shipping name:** Flammable liquids, n.o.s. (ethanol-ether mixture)
- **Class:** 3
- **UN-number:** 1993
- **Packing group:** I
- **Classification code:** F1
- **Limited quantities (Table 3.4.6. ADR):** 0

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- **Hazard classification number:** 33
- **Special provisions (Chapter 3.3 ADR):** 274, 640 B
- **Additional informations for sea transport IMDG:**
- **EMS-No.:** F-E, S-E
- **Properties:** Fp=-40°C

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:** GHS02, GHS07

- **Signal word:** Danger

- **H-Phrases:**

H224 Extremely flammable liquid and vapour

H302 Harmful if swallowed

H336 May cause drowsiness or dizziness

EUH019 May form explosive peroxides

- **P-Phrases:**

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P210 Keep away from heat/sparks/open flames/hot surfaces – No smoking

P243 Take precautionary measures against static discharge

- **National regulations (Germany):**

- **Water hazard class:** see chapter 12

- **Storage class TRGS 510:** 3

- **VbF class:** A1

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.