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Safety data sheet according to 1907/2006/EC, Article 31

Printing date 29.12.2023 Version number 3.00 (replaces version 2.00) Revision: 29.12.2023

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

- · Product identifier
- · Trade name: Collodium (4 %)
- · Article number:

7193

BfR-Produktnummer: 8380186

- · Registration number The substance is exempt from REACH-registration.
- Relevant identified uses of the substance or mixture and uses advised against
- · Application of the substance / the mixture Ingredient for pharmaceutical drugs
- · Uses advised against No relevant information available.
- · Details of the supplier of the safety data sheet
- Manufacturer/Supplier:

CAELO

Caesar & Loretz GmbH

Herderstr. 31

D-40721 Hilden

GERMANY

Further information obtainable from:

E-mail: info@caelo.de

Tel.: +49210349940 (during regular opening hours)

Emergency telephone number:

Poison Information Center Bonn Venusberg-Campus 1, 53127 Bonn

Tel: +49 (0) 228-192400

2 Hazards identification

- · Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008

Flam. Liq. 2 H225 Highly flammable liquid and vapour.

Acute Tox. 4 H302 Harmful if swallowed.

STOT SE 3 H336 May cause drowsiness or dizziness.

- · Label elements
- · Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

· Hazard pictograms



· Signal word Danger



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· Hazard statements

H225 Highly flammable liquid and vapour.

H302 Harmful if swallowed.

H336 May cause drowsiness or dizziness.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read carefully and follow all instructions.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P241 Use explosion-proof [electrical/ventilating/lighting] equipment.

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

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with

water [or shower].

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

- · Other hazards
- Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · Determination of endocrine-disrupting properties Not applicable.

3 Composition/information on ingredients

- · Mixtures
- · **Description**: Mixture: consisting of the following components.

Dangerous components:

CAS: 60-29-7 diethyl ether 60.0%

EINECS: 200-467-2 Flam. Liq. 1, H224; Acute Tox. 4, H302; STOT SE 3, H336, EUH019, EUH066

CAS: 64-17-5 ethanol 34.0%

EINECS: 200-578-6 Flam. Liq. 2, H225

CAS: 9004-70-0 nitrocellulose solutions, with not more than 12.6% nitrogen, by dry mass, and 6.0%

not more than 55% nitrocellulose Expl. 1.1, H201; STOT SE 3, H336

• Additional information: For the wording of the listed hazard phrases refer to section 16.

4 First aid measures

- · Description of first aid measures
- **General information:**

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Immediately rinse with water.
- · After eye contact: Rinse opened eye for several minutes under running water.

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· After swallowing:

Rinse mouth with plenty of water.

Call for a doctor immediately.

· Most important symptoms and effects, both acute and delayed

No further relevant information available.

· Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Firefighting measures

- · Extinguishing media
- · Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- · Protective equipment: In case of fire wear suitable protective clothes and respiratory protection.
- **Additional information**

Prevent from entering into drains. Fire residues must be disposed in accordance with official regulations.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

· Environmental precautions:

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

· Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

· Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

- · Conditions for safe storage, including any incompatibilities
- Storage:
- Requirements to be met by storerooms and receptacles:

Tightly closed. Store at a dry place. At room temperature (+15°C to +25°C). Store in a cool location.

· Information about storage in one common storage facility: Not required.

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· Further information about storage conditions:

Keep container tightly sealed. Do not seal receptacle gas tight.

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

- · Storage class: TRHS 510: 3 Flammable liquid
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Control parameters
- · Ingredients with limit values that require monitoring at the workplace:

CAS: 60-29-7 diethyl ether

OEL Short-term value: 616 mg/m³, 200 ppm Long-term value: 308 mg/m³, 100 ppm

IOELV

CAS: 64-17-5 ethanol

OEL Short-term value: 1000 ppm

- · Additional information: The lists valid during the making were used as basis.
- Exposure controls
- · Appropriate engineering controls No further data; see item 7.
- · Individual protection measures, such as personal protective equipment
- General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

- · Respiratory protection: Respiratory with filter.
- · Hand protection Protective gloves
- · Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye/face protection Tightly sealed goggles

9 Physical and chemical properties

- · Information on basic physical and chemical properties
- · General Information

Physical state Fluid
Colour: Colourless
Odour: Ether-like
Odour threshold: Not determined.

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35.5 °C

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· Melting point/freezing point: Undetermined.

Boiling point or initial boiling point and boiling range

· Flammability Not applicable.

· Lower and upper explosion limit

 Lower:
 1.7 Vol % (CAS: 60-29-7 diethyl ether)

 Upper:
 36 Vol % (CAS: 60-29-7 diethyl ether)

 Flash point:
 -40 °C (CAS: 60-29-7 diethyl ether)

Ignition temperature: 180 °C

Decomposition temperature: Not determined.pH Not determined.

· Viscosity:

Kinematic viscosityDynamic:Not determined.Not determined.

·Solubility

• water: Fully miscible.
• Partition coefficient n-octanol/water (log value) Not determined.

• Vapour pressure at 20 °C: 587 hPa (CAS: 60-29-7 diethyl ether)

· Density and/or relative density

Density at 20 °C:
 Relative density
 Vapour density
 Not determined.
 Not determined.

· Other information · Appearance:

· Form: Fluid

· Important information on protection of health and environment, and on safety.

• Auto-ignition temperature: Product is not selfigniting.

• **Explosive properties:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

· Solvent content:

Organic solvents: 94.0 %
 VOC (EC) 94.00 %
 Solids content: 4.0 %

· Change in condition

· Evaporation rate Not determined.

 \cdot Information with regard to physical hazard

classes

· Explosives Void Void

volu

· Flammable gases Void

Void Void

· Aerosols Void Void

Void Void

Oxidising gases

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· Gases under pressure	Void
-	

Void

· Flammable liquids Highly flammable liquid and vapour.

Void

· Flammable solids Void

Void Void

· Self-reactive substances and mixtures Vo

Void

· Pyrophoric liquids Void

Void Void

· **Pyrophoric solids** Void Void

Void Void

· Substances and mixtures, which emit flammable

gases in contact with water

· Self-heating substances and mixtures

Void Void

· Oxidising liquids Void

Void

· Oxidising solids Void

Void Void Void

· Corrosive to metals

Void Void

· Desensitised explosives

Void Void

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability

· Organic peroxides

- · Thermal decomposition / conditions to be avoided: To avoid thermal decomposition do not overheat.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: Strong oxidizing agents
- · Hazardous decomposition products: Can form explosive peroxides.

11 Toxicological information

- · Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity Harmful if swallowed.
- LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)

Oral LD50 2,025 mg/kg (rat)

CAS: 60-29-7 diethyl ether

Oral LD50 1,215 mg/kg (rat)

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Inhalative LC50 73,000 mg/m3 (rat)

CAS: 64-17-5 ethanol

Oral LD50 7,060 mg/kg (rat) Inhalative LC50 20,000 mg/m3 (rat)

- Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation Based on available data, the classification criteria are not met.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity Based on available data, the classification criteria are not met.
- · STOT-single exposure May cause drowsiness or dizziness.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.
- · Information on other hazards
- · Endocrine disrupting properties

On the basis of the available data, the substance does not meet the criteria for the identification of substances having properties of interference with the endocrine system, in accordance with Article 59, paragraph 1 of the REACH Regulation and the criteria established in the Delegated Regulation (EU) 2017 / 2100 of the Commission or in Commission Regulation (EU) 2018/605.

12 Ecological information

- · Toxicity
- Aquatic toxicity:

CAS: 64-17-5 ethanol

LC50 14,200 mg/L (Fish)

EC50 275 mg/L (Algae)

5,000 mg/L (invertebrates)

5,800 mg/L (Microorganism)

- · Persistence and degradability No further relevant information available.
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- **Endocrine disrupting properties**

Based on the available data, the substance does not meet the criteria for the identification of substances with properties affecting the endocrine system according to Article 59(1) of the REACH Regulation and the criteria of the Commission Delegated Regulation (EU) 2017/2100 or in the Commission Regulation (EU) 2018/605.

The product does not contain substances with endocrine disrupting properties.

- Other adverse effects
- · Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

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Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13 Disposal considerations

- · Waste treatment methods
- Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packaging:
- · **Recommendation:** Disposal must be made according to local regulations.
- Recommended cleansing agents: Water, if necessary together with cleansing agents.

14 Transport information

· UN number or ID number

· ADR, IMDG, IATA UN1993

· UN proper shipping name

· **ADR** 1993 FLAMMABLE LIQUID, N.O.S. (DIETHYL ETHER

(ETHYL ETHER), ETHANOL (ETHYL ALCOHOL))

· IMDG FLAMMABLE LIQUID, N.O.S. (DIETHYL ETHER (ETHYL

ETHER), ETHANOL (ETHYL ALCOHOL))

· IATA Flammable liquid, n.o.s. (DIETHYL ETHER (ETHYL

ETHER), ETHANOL)

· Transport hazard class(es)

· ADR, IMDG, IATA

· Class 3 Flammable liquids.

·Label

· Packing group

· ADR, IMDG, IATA

• Environmental hazards: Not applicable.

· Special precautions for user Warning: Flammable liquids.

· Hazard identification number (Kemler code): 33 · EMS Number: F-E,S-E

Maritime transport in bulk according to IMO

instruments Not applicable.

· Transport/Additional information:

· ADR

Limited quantities (LQ)
 Transport category
 Tunnel restriction code

·IMDG

· Limited quantities (LQ)

· UN "Model Regulation": UN 1993 FLAMMABLE LIQUID, N.O.S. (DIETHYL ETHER

(ETHYL ETHER), ETHANOL (ETHYL ALCOHOL)), 3, II (Contd. on page 9)

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15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- · LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV) Not listed
- · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment - Annex II

None of the ingredients is listed.

- · National regulations:
- Storage of hazardous substances in in nonstationary vessels (TRGS 510) (Germany)

TRHS 510: 3 Flammable liquid

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

The information provided is based on our current level of knowledge. This MSDS has been compiled and is exclusively for this product intended.

- **Reasons for alterations** This version replaces all old versions.
- Relevant phrases
- H201 Explosive: mass explosion hazard.
- H224 Extremely flammable liquid and vapour.
- H225 Highly flammable liquid and vapour.
- H302 Harmful if swallowed.
- H336 May cause drowsiness or dizziness.
- EUH019 May form explosive peroxides.
- EUH066 Repeated exposure may cause skin dryness or cracking.
- · Version number of previous version: 2.00
- Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

MAL-Code: Måleteknisk Arbejdshygjejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Expl. 1.1: Explosives – Division 1.1

Flam. Liq. 1: Flammable liquids – Category 1 Flam. Liq. 2: Flammable liquids – Category 2

Acute Tox. 4: Acute toxicity - Category 4

STOT SE 3: Specific target organ toxicity (single exposure) - Category 3