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

· Informations to product No. 2186

· Product name:

Coffein, API
Coffeinum

· 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: Warning

· H-Phrases:

H302 Harmful if swallowed

· P-Phrases:

P301 IF SWALLOWED:

P312 Call a POISON CENTER or doctor/physician if you feel unwell


AcuteTox. 4

3 Composition / information on ingredients

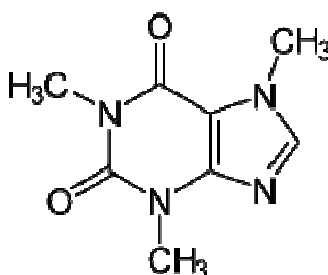
· Chemical characterization:

CAS-No. Substance name

58-08-2 Caffeine

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- **EINECS-No.:** 200-362-1
- **Index-No.:** 613-086-00-5
- **REACH Reg. No.:** 01-2119433305-48-0000
- **INCI-Name:** Caffeine



4 First aid measures

- **after inhalation:** Fresh air. If feeling unwell continuously seek medical advice.
- **after skin contact:** Wash away with water and soap.
- **after eye contact:** Rinse out with plenty of water with the eyelid wide open.
- **after swallowing:** 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:** 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:** Avoid dust formation.
- **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:** Take up dry. Disposal according to Chapter 13 of this MSDS. Clean up with water.

7 Handling and storage

- **Handling:**
- **Advice on safe handling:** Avoid dust formation. Good ventilation / exhaustion of working place..
- **Storage:**
- **Requirements for storage areas and containers:**

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

• **Advices on common storage:** Do not store together with: Strong acids, bases, reductants, oxidants and heavy metal compounds.

8 Exposure controls / personal protective equipment

- **Personal protective equipment:**
- **General protective and hygiene measures:**
Keep away from food, beverages and animal food.
Take off contaminated clothes immediately.
Wash hands before breaks and after work.
- **Respiratory protection:** Dust protection mask.
- **Hand protection:** Protection gloves of latex or rubber.
- **Eye protection:** Safety glasses.

9 Physical and chemical properties


- **Form:** solid
- **Colour:** white
- **Odour:** odourless
- **Melting point / melting range:** 235 - 239 °C
- **Explosion hazard:** The product is not hazardous for explosion, but the explosion of dust-air mixtures is possible.
- **Density:** (20 °C) 1,23 g/cm³
- **Bulk density:** ca. 360 kg/m³
- **Solubility in / Miscibility with**
- **Water:** (16 °C) 18,7g/l; (28 °C) 30,2g/l
- **pH-range:** (20 °C, 10 g/l) 5,5-6,5

10 Stability and reactivity

- **Thermal decomposition / conditions to avoid:** No decomposition during appropriate use.
- **Hazardous decomposition products:** none
- **Chemical stability:** Product is stable if the instructions are followed / notes for storage and handling
- **Possibility of hazardous reactions:** No hazardous reactions if the regulations / notes for storage and handling are considered.
- **Conditions to Avoid:** Avoid formation of dust. Avoid electrostatic charge. Avoid light.

11 Toxicological information

- **Acute toxicity:**
LD/LD50-data relevant for hazard classification:
LD50, oral, rat: 367 mg/kg (BASF)
LC50, inhal, rat: ca. 4,94 mg/l/4h (OECD 404)
LD50, dermal, rat: > 2000 mg/kg (BASF)
- **Primary irritating effect:**
- **on skin:** Not irritant
- **on eyes:** Not irritant

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- **Sensitization:** No sensitizing effect in animal experiments.
- **Subacute / chronic toxicity:** No cancerogene, mutagene or teratogene effect.

12 Ecological information

- **Aquatic toxicity:**

Fishes: LC50 (96 h) 87 mg/l, *Leuciscus idus* (DIN 38412)

Daphnia: EC50 (48 h) 182 mg/l, *Daphnia magna* (79/831/EWG)

Algae: EC50 (72 h) > 100 mg/l, *Scenedesmus subspicatus* (OECD 201)

Bacteria: EC50 (17 h) 3.490 mg/l, *Pseudomonas putida* (DIN 38412)

Activated sludge: EC20 (180 min) ca. 900 mg/l, (OECD 209)

- **Information about elimination (persistence and degradability):**

Readily biodegradable (90 – 100%, 22d, OECD 301A)

- **log p(O/W):** (23 °C) -0,091

Bioaccumulation is not likely.

- **General advices:** Prevent from leaking into ground water, environment waters or drainage.

- **Water hazard class:** 1 (VwVwS): slightly hazardous for water.

13 Disposal considerations

- **Product:**
- **Recommendation:** Disposal to the 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:** GHS07

- **Signal word:** Warning

- **H-Phrases:**

H302 Harmful if swallowed

- **P-Phrases:**


P301 IF SWALLOWED:

P312 Call a POISON CENTER or doctor/physician if you feel unwell

- **National regulations (Germany):**

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

- **Storage class TRGS 510:** 11

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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.