

Trade name: Coffeinum

Substance number: 062872 Version: 5 / CH Date revised: 05.09.2024

Replaces Version: 4 / CH Print date: 05.09.24

<u>SECTION 1: Identification of the substance/mixture and of the company/undertaking ***</u>

1.1. Product identifier

Coffeinum

Item No. 06287200

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/preparation

Active pharmacutical substance

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

Hänseler AG

Industriestrasse 35

9100 Herisau

Telephone no.

0041 (0)71 353 58 58 sdb@haenseler.ch

E-mail address of

person responsible

for this SDS

1.4. Emergency telephone number

Switzerland: 145 / Abroad +41 (0)44 251 51 51

SECTION 2: Hazards identification ***

2.1. Classification of the substance or mixture

Classification (Regulation (EC) No. 1272/2008)

Classification (Regulation (EC) No. 1272/2008)

Acute Tox. 4 H302

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008 For explanation of abbreviations see section 16.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms



Signal word

Warning

Hazard statements

H302 Harmful if swallowed.

Precautionary statements ***

P264.1 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P301+P312 IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.

P330 Rinse mouth.

P501.3 Disposal in compliance with local and national regulations.



Trade name: Coffeinum

Substance number: 062872 Version: 5 / CH Date revised: 05.09.2024

Replaces Version: 4 / CH Print date: 05.09.24

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

contains *** caffeine

2.3. Other hazards

The Substance does not meet PBT-criteria. This substance does not meet the vPvB-criteria. This substance does not have endocrine disrupting properties with respect to humans. This substance does not have endocrine disrupting properties with respect to non-target organisms.

SECTION 3: Composition/information on ingredients ***

Molecular weight

Value 194.19 g/mol

Hazardous ingredients ***

caffeine

CAS No. 58-08-2 EINECS no. 200-362-1

Registration no. 01-2119433305-48-0000

Concentration >= 50 %

Classification (Regulation (EC) No. 1272/2008)

Acute Tox. 4 H302

ATE oral 367 mg/kg

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove contaminated clothing immediately and dispose of safely.

After inhalation

Remove the casualty into fresh air and keep him calm. Summon a doctor immediately.

After skin contact

Wash off immediately with soap and water and rinse well.

After eve contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Eye doctor.

After ingestion

Rinse out mouth and give plenty of water to drink. Summon a doctor immediately.

4.2. Most important symptoms and effects, both acute and delayed

Vomiting, Gastrointestinal complaints, CNS Disturbance

4.3. Indication of any immediate medical attention and special treatment needed Hints for the physician / treatment

Symptomatic treatment (decontamination, vital functions), no specific antidote known.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water spray jet, Dry chemical extinguisher, Carbon dioxide, Foam

Non suitable extinguishing media

Full water jet



Trade name: Coffeinum

Substance number: 062872 Version: 5 / CH Date revised: 05.09.2024

Replaces Version: 4 / CH Print date: 05.09.24

5.2. Special hazards arising from the substance or mixture

Developpment of toxic gases

5.3. Advice for firefighters

Special protective equipment for fire-fighting

Use self-contained breathing apparatus.

Other information

Collect contaminated fire-fighting water separately, must not be discharged into the drains. Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Ensure adequate ventilation.

6.2. Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

6.3. Methods and material for containment and cleaning up

For small amounts: take up with appropriate instrument and dispose. For tall amounts: Take up mechanically and collect in suitable container for disposal. Dispose of absorbed material in accordance with the regulations.

6.4. Reference to other sections

Information regarding personal protective measures, see Section 8. Information regarding waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Avoid the formation and deposition of dust.

Advice on protection against fire and explosion

The product is capable of dust explosions. Take action to prevent static discharges. Keep away from sources of ignition. Procure extinguisher

Classification of fires / temperature class / Ignition group / Dust explosion class

Dust explosion class Capable of dust explosion

7.2. Conditions for safe storage, including any incompatibilities

Storage classes

Storage class according to TRGS 510 6.1B Non-combustible substances of acute

toxicity, categories 1 and 2 / very toxic

hazardous substances

Storage category (Switzerland) 11/13 Other solid hazardous substances with

classification/labelling hazardous

Further information on storage conditions

Keep container tightly closed. Protect from light.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Derived No/Minimal Effect Levels (DNEL/DMEL)



Trade name: Coffeinum

Substance number: 062872 Version: 5 / CH Date revised: 05.09.2024

Replaces Version: 4 / CH Print date: 05.09.24

mg/kg

caffeine

Type of value Derived No Effect Level (DNEL)

Reference group Worker
Duration of exposure Long term
Route of exposure dermal

Mode of action Systemic effects
Concentration 25.17

Type of value Derived No Effect Level (DNEL)

Reference group Worker
Duration of exposure Long term
Route of exposure inhalative
Mode of action Systemic effects

Concentration 44.37 mg/m³

Predicted No Effect Concentration (PNEC)

caffeine

Type of value PNEC
Species Fresh water

Concentration 0.087 mg/l

Type of value PNEC Type Marine

Concentration 0.0087 mg/l

Type of value PNEC

Type Sewage treatment plant (STP)

Concentration 10 mg/l

Type of value PNEC

Type Freshwater sediment

Concentration 0.4 mg/kg

Type of value PNEC Type Soil

Concentration 0.0289 mg/kg

8.2. Exposure controls

General protective and hygiene measures

Avoid contact with skin and eyes. Remove contaminated, soaked clothing immediately and dispose of safely. Observe the usual precautions for handling chemicals. Wash hands and face before breaks and after work.

Respiratory protection

Breathing apparatus in the event of aerosol. Particle filter P2; Particle filter half mask, filter P3 - Norm NF EN 149

Hand protection

Chemical resistant gloves

Appropriate Material nitrile rubber - NBR Material thickness 0.4 mm Breakthrough time 480 min Appropriate Material Butyl rubber - Butyl Material thickness 0.7 mm Breakthrough time 480 min



Print date: 05.09.24

Trade name: Coffeinum

Substance number: 062872 Version: 5 / CH Date revised: 05.09.2024

Replaces Version: 4 / CH

Appropriate Material Polychloroprene

Material thickness 0.5 mm Breakthrough time > 480 min

Eye protection

Safety glasses with side protection shield

Body protection

apron; Boots; Clothing as usual in the chemical industry.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state solid
Colour white
Odour odourless
Physical state Powder

Melting point

Value appr. 235 to 239 °C

Flammability

Not self inflammable

Flash point

Value > 93 °C

Ignition temperature

Value > 600 °C

Method DIN 51794

Decomposition temperature

Remarks No decomposition if used as prescribed.

pH value

Value 5.5 to 6.5 Concentration/H2O 10 g/l Temperature 20 °C

Partition coefficient n-octanol/water (log value)

log Pow -0.091 Temperature 23 °C Method 92/69/EEC, A.8

Density and/or relative density

Value 1.23 g/cm³

9.2. Other information

Solubility in water

Value 18.7 g/l Temperature 16 °C

Bulk density

Value appr. 360 kg/m³

Surface tension

Remarks Not applicable

Other information

Forms esplosive mixture with air are possible.



Trade name: Coffeinum

Substance number: 062872 Version: 5 / CH Date revised: 05.09.2024

Replaces Version: 4 / CH Print date: 05.09.24

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known.

10.2. Chemical stability

No decomposition if stored and applied as directed.

10.3. Possibility of hazardous reactions

No hazardous reactions known.

10.4. Conditions to avoid

Avoid dust formation. Keep away from sources of heat and ignition. Protect from light.

10.5. Incompatible materials

No dangerous reactions known.

10.6. Hazardous decomposition products

No hazardous decomposition products known when handled according to prescibed instructions.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute oral toxicity

ATE 367 mg/kg
Method calculated value (Regulation (EC) No. 1272/2008)

Acute oral toxicity (Components)

caffeine

Species rat

LD50 367 mg/kg

Method BASF-test

Acute dermal toxicity (Components)

caffeine

Species rat

LD50 > 2000 mg/kg

Acute inhalative toxicity (Components)

caffeine

Species rat

LC50 4.94 mg/l Duration of exposure 4 h

Duration of exposure 4
Method OECD 403

Skin corrosion/irritation (Components)

caffeine

evaluation non-irritant Method OECD 404

Serious eye damage/irritation (Components)

caffeine

evaluation non-irritant Method OECD 405

Sensitization (Components)

caffeine



Trade name: Coffeinum

Substance number: 062872 Version: 5 / CH Date revised: 05.09.2024

Replaces Version: 4 / CH Print date: 05.09.24

evaluation non-sensitizing Method OECD 429

Mutagenicity (Components)

caffeine

Remarks Based on available data, the classification criteria are not met.

Reproduction toxicity (Components)

caffeine

evaluation Suspected of damaging fertility.

Carcinogenicity (Components)

caffeine

evaluation Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity (STOT) (Components)

caffeine

Remarks Based on available data, the classification criteria are not met.

11.2 Information on other hazards

Endocrine disrupting properties with respect to humans

This substance does not have endocrine disrupting properties with respect to humans.

SECTION 12: Ecological information ***

12.1. Toxicity

Fish toxicity (Components)

caffeine

Species golden orfe (Leuciscus idus)

LC50 87 mg/l

Duration of exposure 96
Method DIN 38412 T.15

Remarks The details of the toxic effect relate to the nominal concentration.

Source static

Daphnia toxicity (Components)

caffeine

Species Daphnia magna

EC50 182 mg/l

Method DIN 38412

Remarks The details of the toxic effect relate to the nominal concentration.

Source static

Algae toxicity (Components)

caffeine

Species Desmodesmus subspicatus

EC50 > 100 mg/l

Duration of exposure 72 h

Method OECD 201

Remarks The details of the toxic effect relate to the nominal concentration.

Bacteria toxicity (Components)

caffeine

Species Pseudomonas putida

EC50 3490 mg/l

Duration of exposure 17 h
Method DIN 38412 Part 8



Trade name: Coffeinum

Substance number: 062872 Version: 5 / CH Date revised: 05.09.2024

Replaces Version: 4 / CH Print date: 05.09.24

Remarks The details of the toxic effect relate to the nominal concentration.

12.2. Persistence and degradability

Biodegradability

evaluation Readily biodegradable

12.3. Bioaccumulative potential

Partition coefficient n-octanol/water (log value)

log Pow -0.091

Temperature 23 °C Method 92/69/EEC, A.8

12.4. Mobility in soil

Mobility in soil

Will not adsorb on soil.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment ***

The Substance does not meet PBT-criteria.

This substance does not meet the vPvB-criteria.

12.6 Endocrine disrupting properties

Endocrine disrupting properties with respect to the envrionment

This substance does not have endocrine disrupting properties with respect to non-target organisms.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations for the product

Disposal in compliance with local and national regulations.

Disposal recommendations for packaging

Dispose of as unused product.

SECTION 14: Transport information ***



Print date: 05.09.24

Trade name: Coffeinum

Substance number: 062872 Version: 5 / CH Date revised: 05.09.2024

Replaces Version: 4 / CH

	Land transport ADR/RID ***	Marine transport IMDG/GGVSee ***	Air transport ICAO/IATA ***
Tunnel restriction code	D/E		
14.1. UN number	1544	1544	1544
14.2. UN proper shipping name	ALKALOIDS, SOLID, N.O.S. (caffeine)	ALKALOIDS, SOLID, N.O.S. (caffeine)	ALKALOIDS, SOLID, N.O.S. (caffeine)
14.3. Transport hazard class(es)	6.1	6.1	6.1
Label	6	6	6
14.4. Packing group	II	II	II
Limited Quantity	500 g		
Transport category	2		

SECTION 15: Regulatory information ***

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Water Hazard Class (Germany) ***

Water Hazard Class WGK 1

(Germany)

Remarks Derivation of WGK according to Annex 1 No. 5.2 AwSV

SECTION 16: Other information

Hazard statements listed in Chapter 3

H302 Harmful if swallowed.

CLP categories listed in Chapter 3

Acute Tox. 4 Acute toxicity, Category 4

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: *** This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.