

Trade name: Coffeinum

Substance number: 062872

Version: 4 / CH

Date revised: 17.12.2018

Replaces Version: 3 / CH

Print date: 01.10.19

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

1.1. Product identifier

Coffeinum

Item No. 06287200

Substance / product identification

REACH Registry No. 01-2119433305-48-0000

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

Use of the substance/preparation

Active pharmaceutical 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

E-mail address of sdb@haenseler.ch

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.

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P330

Rinse mouth.

P501.9

Dispose of contents/container as problematic waste.

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

contains

Caffeine

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

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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 eye 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

5.2. Special hazards arising from the substance or mixture

Development of toxic gases

5.3. Advice for firefighters

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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**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)****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	mg/kg

Type of value	Derived No Effect Level (DNEL)
Reference group	Worker
Duration of exposure	Long term

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Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	44.37	mg/m ³

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
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

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9.1. Information on basic physical and chemical properties

Form	Powder			
Colour	white			
Odour	odourless			
pH value				
Value	5.5	to	6.5	
Concentration/H ₂ O	10	g/l		
Temperature	20	°C		
Melting point				
Value	appr. 235	to	239	°C
Flash point				
Value		°C		
Remarks	Not applicable			
Flammability (solid, gas)	Not self inflammable			
Solubility in water				
Value	20			g/l
Temperature	20	°C		
Partition coefficient: n-octanol/water				
log Pow	-0.091			
Temperature	23	°C		
Method	92/69/EEC, A.8			
Ignition temperature				
Value	> 600			°C
Method	DIN 51794			
Decomposition temperature				
Remarks	No decomposition if used as prescribed.			

9.2. Other information

Bulk density				
Value	appr. 360			kg/m ³
Surface tension				
Remarks	Not applicable			
Other information	Forms explosive mixture with air are possible.			

SECTION 10: Stability and reactivity**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 prescribed instructions.

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity

ATE	500	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)	

Skin corrosion/irritation

Species	rabbit
evaluation	non-irritant
Method	OECD 404
Remarks	No effect of irritation known.

Serious eye damage/irritation

Species	rabbit
Method	OECD 405
Remarks	No effect of irritation known

Mutagenicity

evaluation	No experimental information on genotoxicity in vitro available.
evaluation	No experimental indications on genotoxicity in vivo found.

Reproductive toxicity

Remarks	May cause adverse reproductive effects.
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Carcinogenicity

evaluation	No indications of carcinogenic effects are available from long-term trials.
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SECTION 12: Ecological information

12.1. Toxicity

Fish toxicity

Species	golden orfe (<i>Leuciscus idus</i>)	
LC50	87	mg/l
Duration of exposure	96	h
Method	DIN 38412 T.15	
Remarks	The details of the toxic effect relate to the nominal concentration.	

Daphnia toxicity

Species	Daphnia magna	
EC50	182	mg/l
Duration of exposure	48	h
Remarks	The details of the toxic effect relate to the nominal concentration.	

Algae toxicity

Species	Scenedesmus subspicatus	
EC50	> 100	mg/l
Duration of exposure	72	h
Remarks	The details of the toxic effect relate to the nominal concentration.	

Bacteria toxicity

Species	Pseudomonas putida	
EC50	3490	mg/l
Duration of exposure	17	h

12.2. Persistence and degradability

Biodegradability

evaluation	Readily biodegradable
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12.3. Bioaccumulative potential**Partition coefficient: n-octanol/water**

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.

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

	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
14.1. UN number	Non-dangerous goods	The product does not constitute a hazardous substance in sea transport.	The product does not constitute a hazardous substance in air transport.
14.5. Environmental hazards		no	

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 (Germany)	WGK 1
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Remarks Classification according to Annex 4 VwVwS

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.