

COFFEINUM

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name:	Caffeine Coffeinum Coffeine Caféine Coffein
N° CAS:	58-08-2
N° EC:	200-362-1

1.2 Relevant identified uses of the substance/mixture and uses advised against

Identified uses:	Active Pharmaceutical Ingredient or Excipient.
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1.3 Details of the supplier of the safety data sheet

Company:	Magis-Pharma NV Neerlandweg 24 2610 Wilrijk Belgium
Telephone:	(+32) (0)3 457 11 76
Email:	info@magis-pharma.be
Web page:	www.magis-pharma.be

1.4 Emergency telephone number

Public utility foundation:	Belgisch Antigifcentrum	Centre Antipoisons Belge
Telephone:	(+32) (0)70 245 245	(Service 24/7)
Web page:	www.antigifcentrum.be	www.centreantipoisons.be

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance/mixture

Classification according to (EC) n° 1272/2008

Acute Tox. 4	H302
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2.2 Label elements

Labelling according to (EC) n° 1272/2008

Hazard pictogram(s):



Signal word(s): Attention

Hazard statements:

H302 Harmful if swallowed.

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Precautionary statements:

P270	Do not eat, drink or smoke when using this product.
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor/ if you feel unwell.
P330	Rinse mouth.
P501	Dispose of contents/container in accordance with local/regional/national/international regulation.

Additional applicable label elements:



2.3 Other hazards

Not available.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Product name:	Caffeine
IUPAC name:	1,3,7-trimethylpurine-2,6-dione
Synonyms:	Guaranine Methyltheobromine Thein
N° CAS:	58-08-2
N° EC:	200-362-1
Molecular Formula:	C ₈ H ₁₀ N ₄ O ₂
Content:	98.5 per cent to 101.5 per cent (dried substance)

3.2 Mixtures

Not applicable.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General notes:	When in doubt or if symptoms are observed, get medical advice.
After inhalation:	No special measures are necessary.
After skin contact:	Change contaminated, saturated clothing. Wash contaminated clothing prior to re-use.
After eye contact:	Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.
After ingestion:	Call a physician in any case! Do NOT induce vomiting. If major quantity of dust is swallowed or inhaled, immediately drink water.

4.2 Most important symptoms and effects, both acute and delayed

Not available.

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4.3 Indication of any immediate medical attention and special treatment needed

Not available.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Foam, dry powder, carbon dioxide, sand, water mist.

Unsuitable extinguishing media: Direct water jet.

5.2 Special hazards arising from the substance/mixture

Not available.

5.3 Advice for firefighters

Surrounding fires: Cool containers with water to avoid decomposition of the product and the development of potential health hazards. Always wear full fire protection. Collect the water that should not enter the sewer. Eliminate the contaminated water used to extinguish and the remains of the second current regulations.

Protection against fire: Helmet with a visor, fire-retardant clothing (jacket and pants with suspenders around the arms, legs and waist), gloves (fireproof and dielectric), a mask with a face mask that covers the entire face of the operator or the car (auto protector) in the case of large amounts of smoke.

Hazardous combustion products: Not available.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure proper ventilation. Evacuate personnel to safe zones. Avoid breathing dust.

For emergency responders

Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure proper ventilation. Evacuate personnel to safe zones. Avoid breathing dust.

6.2 Environmental precautions

Prevent the product from entering the sewers, surface waters, groundwater and/or adjacent areas.

6.3 Methods and material for containment and cleaning up

For containment: Collect in closed and suitable containers for disposal. Treat the recovered material as prescribed in the section on waste disposal.

For cleaning up: Suitable material for taking up: Sand Absorbing material, organic

6.4 Reference to other sections

For exposure control and individual protection measures, see section 8.

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For waste disposal, follow the recommendations in section 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Precautions for safe handling:	Avoid the formation of dust and aerosols. Normal provisions for preventive fire protection.
Personal protection:	Avoid contact with eyes and skin.
Technical protective measures:	It must have adequate extraction in places where dust forms.
Handling:	Not available.

7.2 Conditions for safe storage, including any incompatibilities

Storage:	Store in a cool place. Keep container tightly closed.
Conditions for safe storage, including any incompatibilities:	Store in a dry and well-ventilated place.
Storage – away from:	Not available.

7.3 Specific end use(s)

Active Pharmaceutical Ingredient or Excipient

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Not available.

8.2 Exposure controls

Appropriate engineering control

Since the use of appropriate technical measures must always take precedence over personal protective equipment, ensure good ventilation in the workplace through effective local suction. When choosing personal protective equipment, ask your chemical suppliers if necessary. Personal protective equipment must bear the CE marking that certifies compliance with the applicable regulations. Provide an emergency shower with a viscoelastic tray. Handle with adequate industrial hygiene precautions, and respect safety practices. Wash your hands before breaks and after the end of the work day.

Individual protection measures

Eye/face protection:	Protective face shields and safety glasses according to EN166.
Skin protection:	Choose protection for the body according to the amount and concentration of the dangerous substance in the workplace.
Hand protection:	Handle with gloves. The protective gloves selected must comply with the specifications of the EU Directive 89/686 / EEC and the standard EN 374 derived from it.
Respiratory protection:	Where risk assessment shows that air purifying respirators are appropriate, wear type N95 (USA) or type P1 (EN 143) dust mask. Use respirators and components

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tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Thermal hazards: Not determined.

Environmental exposure control

Not available.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	White or almost white, crystalline powder or silky crystals.
Odour:	Not available.
Odour threshold:	Not available.
pH:	5.5 – 6.5 (10% in water, 20 °C)
Melting/freezing point:	234 – 236.5 °C
Initial boiling point:	Not available.
Boiling range:	Not available.
Flash point:	Not available.
Evaporation rate:	Not available.
Flammability (solid/gas):	Not available.
Upper/lower flammability or explosive limits:	Not available.
Vapour pressure:	Not available.
Vapour density:	1,23 g/cm ³ (20 °C)
Relative density:	Not available.
Solubility:	Freely soluble in boiling water, slightly soluble in ethanol (96%). It dissolves in concentrated solutions of alkali benzoates or salicylates.
Solubility in water:	Sparingly soluble in water.
Partition coefficient (n-octanol/water):	Log(K(o/w)) = -0.07 (20 °C)
Auto-ignition temperature:	Not available.
Decomposition temperature:	Not available.
Viscosity:	Not available.
Explosive properties:	Not available.
Oxidising properties:	Not available.

9.2 Other information

Not available.

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SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No special conditions. Stable under recommended storage and handling conditions (see section 7).

10.2 Chemical stability

Stable under recommended storage and handling conditions (see section 7).

10.3 Possibility of hazardous reactions

Not available.

10.4 Conditions to avoid

Direct sunlight, humidity, and extremely high temperatures.

10.5 Incompatible materials

Strong oxidising agents.

10.6 Hazardous decomposition products

Toxic fumes of carbon oxides (CO_x), nitrogen oxides (NO_x), hydrogen chloride (HCl), and sulfur oxides (SO_x).

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity:	Oral LD50 (rat): 192 mg/kg
Skin corrosion/irritation:	Not an irritant.
Serious eye damage/irritation:	Not an irritant.
Respiratory/skin sensitisation:	Irritates the respiratory tract.
Germ cell mutagenicity:	No indications of human germ cell mutagenicity exist.
Carcinogenicity:	No component of this product is identified at levels greater than or equal to 0.1% as a probable, possible or confirmed human carcinogen by the International Agency for Research on Carcinogens (IARC).
Reproductive toxicity:	This substance does not meet the criteria for classification as CMR category 1A or 1B according to CLP.
Summary of evaluation of the CMR properties:	Not available.
STOT-single exposure:	Not available.
STOT-repeated exposure:	Not available.
Aspiration Hazard:	Not available.
Other:	Not available.

11.2 Additional information on potential adverse human health effects and symptoms

Eye contact:	May cause eye irritation.
Skin contact:	Harmful if absorbed through the skin. May cause skin irritation.

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Inhalation:	Harmful if inhaled. It might produce an irritation in the respiratory tract.
Ingestion:	Harmful if swallowed.
Aspiration:	Not available.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish (LC50): 87 mg/L/96 h (*Leuciscus idus*)
 Toxicity to invertebrates (LC50): 182 mg/L/48 h (*Daphnia magna*)

12.2 Persistence and degradability

Biodegradable.

12.3 Bioaccumulative potential

No indication of bioaccumulative potential.

12.4 Mobility in soil

Not available.

12.5 Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

12.6 Other adverse effects

Unhealthy for aquatic organisms.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product: Consider all federal, state, and local environmental regulations. Contact an authorized professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.
 Contaminated container: Discard as unused product.

SECTION 14: TRANSPORT INFORMATION

Transport information according to ADR/RID/IMDG/ICAO/IATA

14.1 UN Number

ADR/ RID(Land),IMDG(Sea), IATA/ICAO (Air) :	1544
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14.2 UN proper shipping name

ADR/ RID(Land),IMDG(Sea), IATA/ICAO (Air) :	ADR/RID: SOLID ALKALOID SALTS, N.O.S. (CAFFEINE) IMDG: ALKALOID SALTS, SOLID, N.O.S. (CAFFEINE) IATA: ALKALOID SALTS, SOLID, N.O.S. (CAFFEINE)
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14.3 Transport hazard class(es)

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ADR/ RID(Land),IMDG(Sea), 6.1
IATA/ICAO (Air) :

14.4 Packing group

ADR/ RID(Land),IMDG(Sea), III
IATA/ICAO (Air) :

14.5 Environmental hazards

ADR/ RID(Land),IMDG(Sea), It is not dangerous in transportation.
IATA/ICAO (Air) :

14.6 Special precautions for user

It is not dangerous in transportation.

14.7 Transport in bulk according to annex II of Marpol and the IBC Code

Not available.

14.8 Additional transport information

Not available.

SECTION 15: REGULATORY INFORMATION

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

Hazard symbol:



Risk phrases: R22 Harmful if swallowed.

Safety phrases: S20/21 When using do not eat, drink or smoke.
R46 If swallowed, seek medical advice immediately and show this container or label.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out.

SECTION 16: OTHER INFORMATION

16.1 Changes since the previous version

Not applicable.

16.2 Abbreviations and acronyms used

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS: Chemical Abstracts Service (division of the American Chemical Society)
EC (number): European Community (number)
IATA: International Air Transport Association
ICAO: International Civil Aviation Organization
IMDG: International Maritime Code for Dangerous Goods

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IUPAC:	International Union of Pure and Applied Chemistry
PBT:	Persistent, Bioaccumulative and Toxic substance
RID:	Regulations Concerning the International Transport of Dangerous Goods by Rail
STOT:	Specific Target Organ Toxicity
UN (number):	United Nations (number)
vPvB:	very Persistent and very Bioaccumulative

16.3 Key literature references/sources for data

European Chemicals Agency.
<https://www.echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database/>

16.4 Method of classification in case of mixture

Not applicable.

16.5 Relevant Hazard statements and/or precautionary statements

For information on hazard and/or precautionary statements refer to section 2 up to and including section 15.

16.6 Training advisement

Not available

16.7 Notice for user(s)

The information provided in this MSDS has been established in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015, amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council, on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94, as well as Council Directive 76/769/EEC and Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC of the Commission.

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16.8 Department issuing MSDS

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