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Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 10.03.2023

Version number 2.00 (replaces version 1.00)

Revision: 10.03.2023

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

- · Product identifier
- · Trade name: Caffeine, API
- · Article number: 2186
- · CAS Number:
- 58-08-2
- · EC number:
- 200-362-1
- · Index number: 613-086-00-5
- · 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 or active pharmaceutical ingredient.
- · 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:
 Design Information Contar Boom
- 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
 Acute Tex. 4 U202 Upmeful if availanced
- Acute Tox. 4 H302 Harmful if swallowed.
- · Label elements
- Labelling according to Regulation (EC) No 1272/2008 The substance is classified and labelled according to the CLP regulation.

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column to 1907/2000/EC, Article 5

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- (Contd. of page 1) · Hazard pictograms GHS07 · Signal word Warning Hazard statements H302 Harmful if swallowed. Precautionary statements Wash thoroughly after handling. P264 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 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
- · Substances
- · CAS No. Description
- CAS: 58-08-2 caffeine
- · Identification number(s)
- EC number: 200-362-1
- Index number: 613-086-00-5

4 First aid measures

- Description of first aid measures
- After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: Call a doctor immediately.
- Most important symptoms and effects, both acute and delayed No further relevant information available.

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• **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

5 Firefighting measures

· Extinguishing media

Suitable extinguishing agents:

All regular extinguishing media can be used.

Use fire extinguishing methods suitable to surrounding conditions.

Special hazards arising from the substance or mixture

Combustible. In case of fire dangerous vapours/gases can be generated: Smoke gases.

- 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 Avoid formation of dust.
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:** Take up dry. Clean up with water.

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
- Avoid dust formation.
- Ensure good ventilation/exhaustion at the workplace.
- · Information about fire and explosion protection: No special measures required.
- · 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).
- Information about storage in one common storage facility:
- Do not store together with reducing agents, heavy-metal compounds, acids and alkalis.
- Further information about storage conditions: No further information
- Storage class: TRHS 510: 11 Combustible solids
- · 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: Not required.

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· Exposure controls

- Appropriate engineering controls No further data; see item 7.
- \cdot Individual protection measures, such as personal protective equipment
- · General protective and hygienic measures:
- The usual precautionary measures are to be adhered to when handling chemicals.
- **Respiratory protection:** Dust protection mask.
- · Hand protection Protective gloves
- · Material of gloves
- Rubber gloves
- Natural rubber, NR

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.

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 Safety glasses

9 Physical and chemical properties		
Information on basic physical and chemical pro	perties	
· General Information		
· Physical state	Solid	
· Colour:	White	
· Odour:	Odourless	
· Odour threshold:	Not determined.	
 Melting point/freezing point: 	237–239 °C	
· Boiling point or initial boiling point and boiling		
range	Undetermined.	
· Flammability	Product is not flammable.	
Lower and upper explosion limit		
Lower:	Not determined.	
· Upper:	Not determined.	
Flash point:	>93 °C	
Decomposition temperature:	Not determined.	
pH (10 g/l) at 20 °C	5.5–6.5	
Viscosity:		
· Kinematic viscosity	Not applicable.	
· Dynamic:	Not applicable.	
· Solubility		
· water at 16 °C:	18.7 g/l	
· Partition coefficient n-octanol/water (log value)	Not determined.	
· Vapour pressure:	Not applicable.	
Density and/or relative density		
· Density at 20 °C:	1.23 g/cm³	
· Relative density	Not determined.	
· Bulk density:	360 kg/m³	
Vapour density	Not applicable.	
	••	(Contd. on page 5)



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· Particle characteristics	(Contd. of page 4) Not determined
• Other information	
Appearance:	
Form:	Solid
Important information on protection of health and environment, and on safety.	
Auto-ignition temperature:	Not determined.
Explosive properties:	Product does not present an explosion hazard.
Change in condition	
Evaporation rate	Not applicable.
Information with regard to physical hazard classes	
Explosives	Void
	Void
Flammable gases	Void
	Void
Aerosols	Void
	Void
Oxidising gases	Void
Gaage under procedure	Void Void
Gases under pressure	Void
Flammable liquids	Void
	Void
Flammable solids	Void
	Void
Self-reactive substances and mixtures	Void
	Void
Pyrophoric liquids	Void
Duranharia calida	Void Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
och-heating substances and mixtures	Void
Substances and mixtures, which emit flammab	
gases in contact with water	Void
-	Void
Oxidising liquids	Void
	Void
Oxidising solids	Void
Organia naravidaa	Void
Organic peroxides	Void Void
Corrosive to metals	Void
	Void
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Desensitised explosives

Void Void

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10 Stability and reactivity

· Reactivity No further relevant information available.

· Chemical stability

- Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.
- Possibility of hazardous reactions No dangerous reactions known.

· Conditions to avoid

Ditect solar radiation.

Avoid electrostatic charge.

· Incompatible materials: No further relevant information available.

· Hazardous decomposition products: No dangerous decomposition products known.

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:
- Oral LD50 367.7 mg/kg (rat)

Dermal LD50 >2,000 mg/kg (rat)

Inhalative LC50 4.94 mg/l (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 Based on available data, the classification criteria are not met.
- 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:
 LC50 87 mg/L /96h (fish: leuciscus idus)
 EC50 >100 mg/L /72h (Algae)
 182 mg/L /48h (Daphnia magna)



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3,490 mg/L /17h (bacteria: pseudomonas putida)

- · Persistence and degradability Easily biodegradable
- · Bioaccumulative potential Does not accumulate in organisms
- 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) (Assessment by list): slightly hazardous for water 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.

^{*}14 Transport information

 · · · · · · · · · · · · · · · · · · ·		
· UN number or ID number · ADR, IMDG, IATA	Not subject to transport regulations. not regulated	
 · UN proper shipping name · ADR, IMDG, IATA · Transport hazard class(es) 	not regulated	
,		
· ADR, ADN, IMDG, IATA · Class	not regulated	
· Packing group	not regulated	
· ADR, IMDG, IATA	not regulated	
· Environmental hazards:	Not applicable.	
· Special precautions for user	Not applicable.	
• Maritime transport in bulk according to IMO	••	
instruments	Not applicable.	
UN "Model Regulation":	not regulated	
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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 Not listed
- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II Substance is not listed.

· National regulations:

- Storage of hazardous substances in in nonstationary vessels (TRGS 510) (Germany) TRHS 510: 11 Combustible solids
- · 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.
- Date of previous version: 10.03.2023
- · Version number of previous version: 1.00
- · 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

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

MAL-Code: Måleteknisk Arbejdshygiejnisk 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 Acute Tox. 4: Acute toxicity – Category 4

* * Data compared to the previous version altered.