

Material safety data sheet
According to EU Regulation 1907/2006 in the current version
Pure Caffeine Powder

1. Identification of the substance/mixture and company

Trade name: Pure Caffeine Powder
Anhydrous caffeine through CO2 supercritical extraction
INCI Caffeine
CAS No. : 58-08-2
EINECS No. : 200-362-1
REACH registration No. :
Utilization: Raw material for cosmetic or professional use
Supplier company identification: Elemental SRL, Piața Cazărmii no.15, 410188-Oradea, jud.Bihor, Romania
Tel/Fax: +40259-436.755, www.elemental.eu
Emergency: RO: număr național pentru cazuri de urgență: 021 3183606 Institutul de Sănătate Publică București.
International emergency number: +49 180 2273-112

2. Hazards Identification

2.1. Classification of the substance or mixture

Acute tox. 4

Pictogram:



Signal word: Warning

Hazard statement:

H302 Harmful if swallowed

3. Declaration of ingredients

3.1. Substances

Material	C.A.S	EINECS	Risk Symbol	%
Caffeine	58-08-2	200-362-1	Acute tox. 4	100

4. First aid measures

In case of Skin contact: Wash with soap and water and rinse thoroughly removing all contaminated clothes and shoes.
Seek immediate medical advice

In case of Eye contact: Rinse immediately with plenty of water. Then consult doctor.

In case of Ingestion: IF SWALLOWED, call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

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In case of Inhalation: IF INHALED, remove victim to fresh air, and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

5. Fire fighting measures

5.1 Extinguishing media: Water jet, regular or alcohol-resistant foam, CO2, dry powder

5.2 Specific hazards: Hardly flammable. In case of fire, hazardous fumes may arise (carbon monoxide and carbon dioxide, nitrogen oxides).

5.3 Prevention: No smoking. Keep away from sources of ignition.

6. Accidental release measures

In case of accidental leakage into sewage systems, possible contamination of the receiving water.

6.1 Precautions for people: Handle in accordance with good industrial hygiene and safety practices.

6.2 Environmental Protection Measures: Avoid release to the environment, if this is not the intended use.

6.3 Measures for cleaning: Collect the spilled product by suitable means avoiding to raise dust and put into tight containers. Label. Dispose of contents/containers in accordance with the environmental authorities in case of large leaks.

7. Handling and storage

7.1 Handling:

Handle in accordance with good industrial hygiene and safety practices.

Wash exposed body parts thoroughly after handling.

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

Avoid breathing dust/fume/gas/mist/vapors/spray.

Use only outdoors or in a well-ventilated area.

7.2 Hazard class:

Caffeine powder, as many organic substances, in combination with air may lead to dust explosion. Classification ST 1.

Take precaution measures against static discharge.

7.3 Storage:

Store protected from light in tightly closed vessels. Keep out of moisture and light. Keep out of reach of non-qualified personnel. Keep away from sources of ignition.

8. Exposure controls / personal protection

8.1 Respiratory Protection:

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Use only in well ventilated area.

In case of dust-producing handling : use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Where risk assessment shows air-purifying respirators are appropriate use a dust mask type P1 (EN 143) respirator filter P2.

8.2 Eye Protection:

Wear appropriate protective eyeglasses or chemical safety goggles as prescribed by European Standard EN 166.

8.3 Body Protection:

Wear appropriate protective disposable gloves (in PVC or PE).

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

8.4 General safety and hygiene measures:

Change polluted clothes. Wash your hands and face after the work.

9. Physical and chemical properties

Form: Solid (powder)

Color: White

Odor: None

Solubility: Solubility in water at 20°C: 20 g/l. Soluble in main organic solvents

Specific gravity: 1,23 g/cm³ at 18°C

Ignition temperature: 540°C

Flash point: > 100°C

Vapor pressure: 20 hPa (15 mm Hg) at 89 °C

Partition coefficient (n-octanol/water) : log Pow = -0.091 at 23°C

10. Stability and reactivity

10.1 Stability:

Stable under usual conditions.

10.2 Conditions to avoid:

Fine dust dispersed in air in sufficient concentrations and in the presence of an ignition source is a potential dust explosion hazard (class: ST 1). Use preventive measures against electrostatic discharge.

10.3 Materials to avoid:

Strongly oxidizing agents; excessive heating.; dangerous combustion products like carbon monoxide, carbon dioxide, Nitrogen oxides (NOx), irritating and toxic gases

11. Toxicological information

11.1 Acute toxicity:

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LD 50 oral, rat 368 mg/kg (OECD Test Guideline 401)

LC 50 inhalation, rat 4,1 – 4,9 mg /l/4h

LD 50 cutaneous, rat > 2000 mg/kg

The Registry of Toxic Effects of Chemical Substances (RTECS) contains multiple dose toxicity data for this substance.

11.2 Poisoning symptoms after ingestion: diarrhoea, vomiting, excitement, headache. If swallowed in large doses, causes deadly poisoning.

11.3 Systemic effects: pressure drop, tachycardia - large doses cause digestive troubles, nausea, palpitation, breathlessness, depressed mental states.

11.4 Corrosion-irritation effects

- skin test: well tolerable

- mucosa test: well tolerable

11.5 Sensitizing effects :

No data

11.6 Carcinogenicity: This product is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP or EPA classification.

11.7 Germ cell mutagenicity: The Registry of Toxic Effects of Chemical Substances (RTECS) contains mutation data for this substance.

11.8 Teratogenicity:

No data

12. Ecological information

12.1 Biological effects:

Harmful to aquatic organisms.

LC50 , 96h, fish (Leuciscus idus): 87 mg/l

EC50 , 48h, Daphnia: 182 mg/l

12.2 Further information:

When released into the soil, this material may biodegrade to a moderate extent. When released into water, this material may biodegrade to a moderate extent. This material is not expected to significantly bioaccumulate.

It is expected to have water persistence due to its solubility in water, low octanol-water partition coefficient (log Kow = 0.01) and poor volatility.

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

12.3 Results of PBT/vPvB assessment :

Data not available

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13. Disposal considerations

13.1. Waste treatment methods

Dispose of contents/containers in accordance with local, state and federal regulation.

Regulations for disposal generally vary according to location. Contact local waste disposal authority for advice, or pass to a chemical disposal company.

14. Transport information

This product is not subject to the regulations for the safe transport of dangerous goods

14.1 ADR/ RID: Road–Rail

Class:---

Code hazard:---

Number UN:---

Packing group:---

Label: ---

Hazard description:---

14.2 IMDG: Maritime Transport

Class:---

Number UN:---

Packing group:---

Label: ---

Hazard description:---

14.3 IATA: Air Transport

Class:---

Number UN:---

Packing group:---

Label: ---

Hazard description:---

15. Regulatory information

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

Substance classification according to GHS EC 1272/2008 regulation :

Acute tox. 4

Pictogram:



Signal word: Warning

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16. Additional information

16.1 Precautionary statements:

P264 Wash thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P330 Rinse mouth.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

16.2 Abbreviations:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
CAS: Chemical Abstracts Service (division of the American Chemical Society).
CLP: Classification, Labeling, Packaging.
DNEL: Derived No Effect Level.
EINECS: European Inventory of Existing Commercial Chemical Substances.
GHS: Globally Harmonized System of Classification and Labeling of Chemicals.
IATA: International Air Transport Association.
IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO: International Civil Aviation Organization.
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG: International Maritime Code for Dangerous Goods.
INCI: International Nomenclature of Cosmetic Ingredients.
LTE: Long-term exposure.
PNEC: Predicted No Effect Concentration.
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.
STE: Short-term exposure.
STEL: Short Term Exposure limit.
STOT: Specific Target Organ Toxicity.

Disclaimer:

This material safety data sheet does not constitute a guarantee of the properties of the product and is not a contractual legal report. The information is given in good faith on the basis of our best knowledge of the product at the indicated time. However, we cannot accept responsibility or liability for any consequences arising from its use, no warranty for correctness and completeness is given. We caution the users against the incurred possible risks when the product is used at other ends than the use for which it was initially planned. It is the user's responsibility during handling, storage and product use to consult the main regulatory texts in force regarding workers and environment protection.