

Product: **ANHYDROUS CAFFEINE (EUR. PH.)**

Product code: 0271

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Emission date: 23/07/2026

Version: 0271_MSDS_ENG_0126

**1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1. Product identifier**Product name: **ANHYDROUS CAFFEINE (EUR. PH.)**

Product code: 0271

Nº CAS: 58-08-2

Nº EC: 200-362-1

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

Relevant identified uses: Active pharmaceutical ingredient

1.3. Details of the supplier of the safety data sheetCompany: **METAPHARMACEUTICAL INDUSTRIAL SLU**

JOSEP PLA 163 2º 5ª

08020 BARCELONA

SPAIN

Phone number: (0034) 933 089 976

Contact e-mail: info@metaph.esWeb page: www.metaph.com**1.4. Emergency telephone number**

National Institute of Toxicology of Madrid: (0034) 915 620 420

2. HAZARDS IDENTIFICATION**2.1. Classification of the substance or mixture**

The product is classified as dangerous according to the provisions of Regulation (EC) 1272/2008 (CLP).
Acute Tox. 4, H302

2.2. Label Elements

Signal word (CLP): WARNING

Hazard statements:

H302: Harmful if swallowed

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 to...

2.3. Other hazards

No additional information available.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Product name: ANHYDROUS CAFFEINE
Synonyms: CAFEÍNA, CAFFEINE
IUPAC name: 1,3,7-dihydro-1,3,7-trimethyl-1H-purine-2,6-dione
Nº CAS: 58-08-2
Nº EC: 200-362-1
Molecular formula: $C_8H_{10}N_4O_2$

3.2. Mixtures

Not applicable.

4. FIRST AID MEASURES

4.1. Description of first aid measures

General advises: Consult a doctor. Show the safety data sheet to the doctor on duty.
Inhalation: Take outdoors. If breathing is irregular, call a doctor immediately. Only apply artificial respiration if breathing stops or under medical supervision.
Skin contact: Wash immediately with plenty of soap and water for at least 15 minutes. Take off all contaminated clothing immediately. Get medical attention if irritation develops and persists.
Eye contact: Remove contact lenses and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
Ingestion: If conscious, give victim plenty of water to drink. Never give anything by mouth to an unconscious person. Call a doctor immediately.

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

Overdose may cause drowsiness, confusion, nausea, hypotension, sinus bradycardia, paresthesia, seizures, and adverse cardiovascular effects.

4.3. Indication of any immediate medical attention and special treatment needed

In case of doubt, or if symptoms of discomfort persist, seek medical attention.

5. FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing methods: Foam, dry chemical powder, carbon dioxide, sand, water spray/mist
Unsuitable extinguishing methods: Direct water jet.
Neighboring fires (containers exposed to fire): Water spray or water mist.

5.2. Special hazards arising from the substance or mixture

In the event of fire, hazardous combustion gases or vapors may be generated.

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**5.3. Advice for firefighters**

General information: Cool containers with water to prevent product decomposition and development of potential health hazards. Always use 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.

Equipment: Helmet with visor, flame retardant clothing (jacket and trousers with braces around the arms, legs and waist, EN 469), gloves (fire and dielectric proof, EN 659), a mask with a full-face mask. operator's face or car (protective car) in the case of large amounts of smoke, a self-contained breathing apparatus (EN 137).

6. ACCIDENTAL RELEASE MEASURES**6.1. Personal precautions, protective equipment and emergency procedures**

For exposure controls and personal protection measures, see Section 8.
Provide cleanup personnel with appropriate protective equipment. Ventilate the area. Evacuate unnecessary personnel.

6.2. Environmental precautions

Prevent release into the environment. Avoid entry into sewers and waterways. If the product reaches drains or public watercourses, notify the relevant authorities.

6.3. Methods and material for containment and cleaning up

Store away from other materials. If spilled on the ground, sweep up or collect using a shovel or similar tool and place in suitable containers. Minimize dust generation.

6.4. Reference to other sections

For exposure controls and personal protective measures, see Section 8.
For disposal recommendations, see Section 13.

7. HANDLING AND STORAGE**7.1. Precautions for safe handling**

Avoid contact with skin and eyes. Avoid the formation of dust and aerosols. Provide adequate ventilation in areas where dust may be generated. Take standard fire protection precautions when handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Store in a cool place. Keep the container tightly closed in a dry, well-ventilated area.

7.3. Specific end use(s)

No additional information available beyond that provided in Section 1.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1. Exposure controls/personal protection**

The product does not contain substances with Occupational Exposure Limit Values (OELs).

8.2. Exposure controls

Since the use of appropriate technical measures should always take precedence over personal protective equipment, ensure good ventilation in the workplace by means of 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. Arrange an emergency shower with a visco-elastic tray.

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Eye and face protection:	Protection masks and safety glasses according to EN 165, EN 166, EN 167, EN 168.
Hands protection:	Handle with gloves. The selected protective gloves must comply with the specifications of the EU Directive 89/686/EEC and the standards EN 374-1, EN 374-2, EN 374-3, EN 420 derived from it.
Respiratory protection:	Where risk assessment shows that air purifying respirators are appropriate, use type N95 (USA) or type P1 (EN 149) dust mask. Use respirators and components tested and approved under the appropriate government standards such as NIOSH (USA) or CEN (EU).
Skin protection:	Choose body protection based on the amount and concentration of the dangerous substance in the workplace.
Hygiene measures:	Handle with adequate industrial hygiene precautions, and respect safety practices. Wash your hands before breaks and after finishing the workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Aspect:	Solid
Color:	White
Molecular weight (g/mol):	461.50
pH (saturated solution):	5.5 – 6.5
Melting point (°C):	234.0 – 236.5
n-Octanol/Water Partition Coefficient (20 °C):	LogPow -0.07

9.2. Other information

No data available.

10. STABILITY AND REACTIVITY

10.1. Reactivity

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

10.2. Chemical stability

No hazardous reactions have been identified.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

Direct sunlight, moisture, and extremely high temperatures.

10.5. Incompatible materials

Strong oxidizing 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).

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11. TOXICOLOGICAL INFORMATION

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

Acute oral toxicity (LD50, rat):	192 mg/Kg
Skin corrosion/irritation:	No additional information available (Lack of data)
Serious eye damage/eye irritation:	No additional information available (Lack of data)
Skin or respiratory sensitization:	Causes respiratory tract irritation.
Germ cell mutagenicity:	No additional information available (Lack of data)
Carcinogenicity:	No component of this product present at levels greater than or equal to 0.1% has been identified by the International Agency for Research on Cancer (IARC) as a known, probable, or possible human carcinogen.
Reproductive toxicity:	No additional information available (Lack of data)
STOT – single exposure:	No additional information available (Lack of data)
STOT – repeated exposure:	No additional information available (Lack of data)
Aspiration Hazard:	No additional information available (Lack of data)

Potential Health Effects

Inhalation:	Harmful if inhaled. May cause irritation of the respiratory tract.
Ingestion:	Harmful if swallowed.
Skin:	Harmful if absorbed through the skin. May cause skin irritation.
Eyes:	May cause eye irritation.
Signs and Symptoms of Exposure:	Brain and Meninges: Other degenerative changes. Kidneys, Ureters, and Urinary Bladder: Interstitial nephritis.

11.2. Information on other hazards

Nº RTECS:	EV6475000
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12. ECOLOGICAL INFORMATION

Use in accordance with good work practices, avoiding dispersing the product in the environment. Notify the competent authorities if the product has reached water courses or if it has contaminated the soil or vegetation.

12.1. Toxicity

Toxicity to Fish (LC ₅₀):	87 mg/L/96 h (Leuciscus idus)
Toxicity to Aquatic Invertebrates (LC ₅₀):	182 mg/L/48 h (Daphnia magna)

12.2. Persistence and degradability

No data available.

12.3. Bioaccumulative potential

No data available.

12.4. Results of PBT and vPvB assessment

No data available.

12.5. Endocrine disrupting properties

No data available.

12.6. Other adverse effects

Harmful to aquatic organisms

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**13.DISPOSAL CONSIDERATIONS****13.1. Waste treatment methods**

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

Contaminated packaging: Dispose of as unused product.

14.INFORMACIÓN RELATIVA AL TRANSPORTE

The product is classified by the conventions of dangerous substances.

14.1. UN Number

ADR/RID, IMDG, IATA: 1544

14.2. UN proper shipping name

ADR/RID: ALKALOID SALTS, SOLID, N.O.S. (CAFFEINE)

IMDG: ALKALOID SALTS, SOLID, N.O.S. (CAFFEINE)

IATA: ALKALOID SALTS, SOLID, N.O.S. (CAFFEINE)

14.3. Transport hazard class(es)

	Class	Label	Pictogram
ADR / RID:	6.1	6.1	
IMDG:	6.1	6.1	
IATA:	6.1	6.1	

14.4. Packing group

ADR/RID, IMDG, IATA: II

14.5. Environmental hazards

Not classified as dangerous for transport

14.6. Special precautions for user

Not classified as dangerous for transport.

14.7. Maritime transport in bulk according to IMO instruments

Not classified as dangerous for transport.

MATERIAL SAFETY DATA SHEET

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15.REGULATORY INFORMATION

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

The Safety Data Sheet complies with the requirements of Regulation (EU) 2020/878 of the Commission of June 18, 2020, by which Annex II of Regulation (EC) No. 1907/2006 of the European Parliament and of the Council is modified, relating to the registration, evaluation, authorization and restriction of chemical substances and mixtures (REACH).

15.2. Chemical safety assessment

No additional information available.

16.OTHER INFORMATION

Abbreviations and acronyms:

PBT: Persistent, bioaccumulative and toxic

mPmB: Very persistent and very bioaccumulative

REACH: Registration, Evaluation, Authorization and Restriction of Chemicals

Data sources used:

Regulation (CE) No. 1272/2008 of the European Parliament and of the Council, of December 16, 2008, on the classification, labeling and packaging of substances and mixtures, and by which Directives 67/548/CEE and 1999 are modified and repealed /45/CE and modifies Regulation (CE) No. 1907/2006.

Regulation (EU) 2020/878 of the Commission of June 18, 2020, by which Annex II of Regulation (EC) No. 1907/2006 of the European Parliament and of the Council, regarding registration, evaluation, authorization and the restriction of chemical substances and mixtures (REACH)

Safety Data Sheet according to Annex II of REACH Regulation (EU) 2020/878

Department issuing the Safety Data Sheet:

Technical Department

The information in this Product Safety Data Sheet is based on current knowledge and current EC and national laws, as far as the working conditions of users are beyond our knowledge and control. The product must not be used for purposes other than those specified, without first having a written instruction on its handling. It is always the responsibility of the user to take the appropriate measures in order to comply with the requirements established in the legislation.