

Safety Data Sheet  
According to Regulation (EC) 1907/2006



**2833 Caffeine anhydrous**

**1. Identification of the substance/preparation and of the company or firm**

**1.1 Identification of the substance or preparation**

Name:

Caffeine anhydrous

**Synonym:**

1,3,7-Trimethylxanthine, 3,7-Dihydro-1,3,7-Trimethyl-1H-Purin-2,6-Dione, 7-Methyltheobromine

**REACH Registration Number:** A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) N° 1907/2006, the annual tonnage does not require a registration, the registration is envisaged for a later registration deadline or it is a mixture.

**1.2 Use of the substance/preparation:**

For laboratory utilisation, analysis, research and fine chemistry.

**1.3 Identification of the company or firm:**

PANREAC QUIMICA S.L.U.

C/Garraf 2

Polígono Pla de la Bruguera

E-08211 Castellar del Vallès

(Barcelona) Spain

Tel. (+34) 937 489 400

e-mail: [product.safety@panreac.com](mailto:product.safety@panreac.com)

**1.4 Emergency telephone:**

Single telephone number for emergency calls: 112 (EU)

Tel.: (+34) 937 489 499

**2. Identification of dangers**

Classification of the substance or the mixture.

**Classification Regulation (CE) n° 1272/2008.**

Acute Tox. 4

**Hazard Pictograms**



**Signal word**

Warning

**Hazard statements**

H302 Harmful if swallowed.

**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 according to Directive 94/62/CE or 2008/98/CE.

**Classification (67/548/CEE or 1999/45/CE).**

**Xn** Harmful

R22

For the full text of the R-phrases mentioned in this section, see section 16.

**3. Component Composition/Information**

Name: Caffeine anhydrous

Formula: C<sub>8</sub>H<sub>10</sub>N<sub>4</sub>O<sub>2</sub> M.= 194,19 CAS [58-08-2]

EC number (EINECS): 200-362-1

EC index number: 613-086-00-5

**4. First aid****4.1 General indications:**

Never provide drink or induce vomiting in the event of loss of consciousness.

**4.2 Inhaling:**

Take the person out into the fresh air. In the event sickness persists, seek medical assistance.

**4.3 Contact with the skin:**

Wash with plenty of water. Remove contaminated clothing.

**4.4 Eyes:**

Wash with plenty of water, keeping eyelids open.

**4.5 Swallowing:**

Drink large amounts of water. Induce vomiting. Seek medical assistance.

**5. Fire-fighting means****5.1 Suitable fire-extinguishing means:**

Foam. Water. Dry powder.

**5.2 Fire-fighting means which must NOT be used:**

No specific data.

**5.3 Special risks:**

Flammable. Keep away from sources of ignition. Risk of explosion of dust. In the event of fire, toxic fumes may form: NO<sub>x</sub>. Precipitate fumes formed with water.

**5.4 Protective equipment:**

Suitable clothing and footwear.

**6. Measures to be taken in the event of accidental spillage****6.1 Individual precautions:**

Do not inhale the dust.

**6.2 Precautions for care of the environment:**

Do not allow it to enter the drainage system. Avoid pollution of the soil, water supplies and drains.

**6.3 Methods for collection/cleaning:**

Collect up dry and deposit in waste containers for subsequent elimination in accordance with current legislation. Clean any remains with plenty of water.

**7. Handling and storage****7.1 Handling:**

No special indications.

**7.2 Storage:**

Well sealed containers. Away from light.

**8. Staff exposure/protection controls****8.1 Technical protective measures:**

No special indications.

**8.2 Exposure limit control:**

: Data not available.

**8.3 Respiratory protection:**

If dust forms, use suitable respiratory protection.

**8.4 Hand protection:**

Use suitable gloves

**8.5 Eye protection:**

Use suitable goggles.

**8.6 Individual hygiene measures:**

Remove contaminated clothing. Wash hands and face before breaks and when the job is done.

**8.7 Environmental exposure controls:**

Fulfill the commitments under local environmental protection legislation.

## **9. Physical and chemical properties**

Appearance: solid  
Colour: White  
Granulometry: N/A  
Odour: Odourless.  
pH: 6,9 (1% sol.)  
Melting point/freezing point: 238 °C  
Initial boiling point and boiling range:  
N/A  
Flash point:  
N/A  
Flammability (solid, gas):  
N/A  
Upper/lower flammability or explosive limits:  
N/A  
Vapour pressure: N/A  
Vapour density: N/A  
Relative density:  
N/A  
Solubility: 22 g/l in water 20 °C  
Partition coefficient: n-octanol/water:  
N/A  
Auto-ignition temperature:  
N/A  
Decomposition temperature: N/A  
Viscosity: N/A

## **10. Stability and reactivity**

### **10.1 Conditions which should be avoided:**

High temperatures.

### **10.2 Matter which should be avoided:**

Strong oxidant agents.

### **10.3 Hazardous decomposition products:**

Nitrogen oxides. Carbon monoxide. Carbon dioxide.

### **10.4 Complementary information:**

Risk of explosion of dust.

## **11. Toxicological information**

### **11.1 Acute toxicity:**

LD L0 oral man : 192 mg/kg  
LD L0 oral man F : 1.000 mg/kg  
LD50 oral rat : 192 mg/kg  
LD50 ipr mus : 168 mg/kg

### **11.2 Dangerous effects for health:**

If inhaled: Absorption If swallowed: headaches anxiety vomiting diarrhoea  
Systemic effects: hypotension tachycardia Other dangerous characteristics are not discarded. Take the usual precautions for handling chemical products.

## **12. Environmental information**

### **12.1 Toxicity:**

12.1.1 - EC50 test (mg/l):

Bacteria (*Photobacterium phosphoreum*) 707 mg/l

Classification:

Highly toxic

Fish (*Leuciscus Idus*)

Classification: Extr. toxic

Crustaceans (*Daphnia magna*) 182 mg/l

Classification:

Highly toxic

12.1.2. - Receptor medium:

Risk for the water environment

Medium

Risk for the land environment

Low

12.1.3. - Observations:

Ecotoxic in water environment.

### **12.2 Persistence and Degradability :**

12.2.1 - Test:

12.2.2. - Biotic degradation classification:

BOD5/COD

Biodegradability

12.2.3. - Abiotic degradation depending on pH:

12.2.4. - Observations:

Data not available.

### **12.3 Bioaccumulative potential:**

12.3.1. - Test:

12.3.2. - Bioaccumulation:

Risk

12.3.3. - Observations:

Data not available.

### **12.4 Mobility in soil :**

Data not available.

### **12.5 Assessment PBT and MPMB :**

Data not available.

### **12.6 Other possible effects on the environment:**

Do not allow it to enter soils or water channels.

## **13. Considerations regarding elimination**

### **13.1 Substance or preparation:**

In the European Union, there are no homogeneous standards established for elimination of chemical waste, which is waste of a special nature, and treatment and elimination of same is subject to the domestic legislation in each country.

In view of this, in each case, you should contact the competent authority or those companies legally authorized for elimination of waste.

2001/573/EC: Council Decision of 23 July 2001 amending Commission Decision 2000/532/EC as regards the list of wastes. Council Directive 91/156/EEC of 18 March 1991 amending Directive 75/442/EEC on waste.

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### 13.2 Contaminated containers:

Contaminated containers and packaging of dangerous substances or preparations must be treated in the same manner as the actual products contained in them. European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste.

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## 14. Information concerning transport

Overland (ADR):

Technical name: ALKALOIDS, SOLID, N.O.S.

UN 1544 Class: 6.1 CONTAM. MAR Packaging group: III (E)

By sea (IMDG):

Technical name: ALKALOIDS, SOLID, N.O.S.

UN 1544 Class: 6.1 CONTAM. MAR Packaging group: III

By air (ICAI-IATA):

Technical name: Alkaloids salts, solid, n.o.s.

UN 1544 Class: 6.1 CONTAM. MAR Packaging group: III

Packaging instructions: CAO 677 PAX 670

## 15. Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

## 16. Other information

### Other precautionary statements

### Labelling (65/548/CEE or 1999/45/CE)

R-phrase(s): **R22** Harmful if swallowed.

S-phrase(s):

Review number and date: 4 15.09.2011

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In respect of the previous review, changes have been made to the following sections: 15

The information included in this Safety Data Sheet is based on our most up-to-date knowledge, and is solely intended to inform regarding aspects of safety; the properties and characteristics indicated herein are not guaranteed.