

Safety Data Sheet

According to Regulation (EC) 1907/2006



3515 Calcium Phosphoride

## Identification of the substance/preparation and of the company or firm

### 1.1 Identification of the substance or preparation

Name:

Calcium Phosphoride

**Synonym:**

**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

# Identification of dangers

Classification of the substance or the mixture.

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

Water-react. 1

Acute Tox. 2

Aquatic Acute 1

## Hazard Pictograms



## Signal word

Danger

## Hazard statements

H260 In contact with water releases flammable gases which may ignite spontaneously.

EUH029 Contact with water liberates toxic gas.

H300 Fatal if swallowed.

H400 Very toxic to aquatic life.

## Precautionary statements

P223 Keep away from any possible contact with water, because of violent reaction and possible flash fire.

P231+P232 Handle under inert gas. Protect from moisture.

P264 Wash...thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P273 Avoid release to the environment.

P501 Dispose of contents/container according to Directive 94/62/CE or 2008/98/CE.

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

**N** Dangerous for the environment R50

**T+** Very toxic R28

**F** Highly flammable R15/29

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

# Component Composition/Information

Name: Calcium Phosphoride

Formula:  $\text{Ca}_3\text{P}_2$  M.= 182,19 CAS [1305-99-3]

EC number (EINECS): 215-142-0

EC index number: 015-003-00-2

## 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.

### 4.3 Contact with the skin:

Wash with plenty of water. Remove contaminated clothing.

### 4.4 Eyes:

Wash with plenty of water (for at least 15 minutes), keeping eyelids open. Seek immediate medical assistance.

### 4.5 Swallowing:

Seek immediate medical assistance.

## Fire-fighting means

### 5.1 Suitable fire-extinguishing means:

Carbon dioxide (CO<sub>2</sub>). Foam. Dry powder.

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

Water.

### 5.3 Special risks:

Combustible. Keep away from sources of ignition. In the event of fire, toxic fumes may form: phosphines Risk of explosion in the event of shock or friction.

### 5.4 Protective equipment:

Suitable clothing and footwear.

## 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:

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. Neutralize with solution of sodium carbonate.

# Handling and storage

## 7.1 Handling:

Avoid the formation of electrostatic charges.

## 7.2 Storage:

Well sealed containers. Away from light.

# 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. Use suitable work clothing. Wash hands before breaks and when the job is done. Do not inhale the substance.

## 8.7 Environmental exposure controls:

Fulfill the commitments under local environmental protection legislation.

# Physical and chemical properties

Appearance: solid

Colour: Red-brown

Granulometry: N/A

Odour: Odourless.

pH:

N/A

Melting point/freezing point: 1.600 °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:

N/A

Partition coefficient: n-octanol/water:

N/A

Auto-ignition temperature:

N/A

Decomposition temperature: N/A

Viscosity: N/A

## Stability and reactivity

### 10.1 Conditions which should be avoided:

The product is chemically stable under standar ambient conditions (room temperature).

### 10.2 Matter which should be avoided:

Oxidant agents. Peroxides. Water.

### 10.3 Hazardous decomposition products:

PH<sub>3</sub>.

### 10.4 Complementary information:

Heat sensitive.

## Toxicological information

- **Acute toxicity:**

: Data not available.

- **Dangerous effects for health:**

If swallowed: nausea vomiting diarrhoea Other dangerous characteristics are not discarded. Take the usual precautions for handling chemical products.

## **Environmental information**

### **12.1 Toxicity:**

12.1.1 - EC50 test (mg/l):

12.1.2. - Receptor medium:

Risk for the water environment

Risk for the land environment

12.1.3. - Observations:

Ecotoxic data not available.

### **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:

### **12.3 Bioaccumulative potential:**

12.3.1. - Test:

12.3.2. - Bioaccumulation:

Risk

12.3.3. - Observations:

### **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:**

Reacts with water.

Risk of formation of explosive fumes on the surface of the water.

Encourages eotrophy in rivers and water channels.

Do not allow it to enter soils or water channels.

## **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.

### **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.

## **Information concerning transport**

Overland (ADR):

Technical name: CALCIUM PHOSPHIDE

UN 1360 Class: 4.3 6.1 PELIG.M.AMB Packaging group: I (E)

By sea (IMDG):

Technical name: CALCIUM PHOSPHIDE

UN 1360 Class: 4.3 6.1 PELIG.M.AMB Packaging group: I

By air (ICAI-IATA):

Technical name: Calcium phosphide

UN 1360 Class: 4.3 6.1 PELIG.M.AMB Packaging group: I

Packaging instructions: CAO 487 PAX F

## **Regulatory information**

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

## **Other information**

**Other precautionary statements**

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P321 Specific treatment (see on this label).

P330 Rinse mouth.

P335+P334 Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages.

P370+P378 In case of fire: Use for extinction.

P391 Collect spillage.

P402+P404 Store in a dry place. Store in a closed container.

P405 Store locked up.

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

R-phrase(s):	<b>R50</b> Very toxic to aquatic organisms. <b>R28</b> Very toxic if swallowed. <b>R15/29</b> Contact with water liberates toxic, extremely flammable gas.
S-phrase(s):	<b>S43f</b> In case of fire, use sand. Never use water. <b>S36/37</b> Wear suitable protective clothing and gloves. <b>S28e</b> After contact with skin, wash immediately and plentifully with polyethylene glycol 400. <b>S22</b> Do not breathe dust. <b>S45</b> In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). <b>S61</b> Avoid release to the environment. Refer to special instructions/safety data sheets.

Review number and date: 3 3.11.10

Date published: 3.11.10

In respect of the previous review, changes have been made to the following sections: 2, 3, 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.