



## Safety Data Sheet According to Regulation (EU) 830/2015

### 1231 Calcium Nitrate 4-hydrate

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

##### 1.1 Product identifier

Name:

Calcium Nitrate 4-hydrate

**REACH Registration Number:** 01-2119495093-35-0040

##### 1.2 Relevant identified uses of the substance or mixture:

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)

#### 2. Identification of dangers

##### 2.1 Classification of the substance or the mixture.

Ox. Sol. 2

Eye Irrit. 2

##### 2.2 Label elements:

###### Hazard Pictograms



###### Signal word

**Hazard statements**

H272 May intensify fire; oxidiser.

H319 Causes serious eye irritation.

**Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P220 Keep/Store away from clothing/combustible materials.

P221 Take any precaution to avoid mixing with combustibles.

P264 Wash...thoroughly after handling.

P280 Wear protective gloves, protective clothing, eye protection or face protection.

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

**2.3 Other hazards:**

No further relevant information available.

**3. Composition/information on ingredients****3.1 Substances**

Name: Calcium Nitrate 4-hydrate

Formula:  $\text{Ca}(\text{NO}_3)_2 \cdot 4\text{H}_2\text{O}$  M.= 236,15 CAS [13477-34-4]

EC number (EINECS): 233-332-1

REACH Registration Number: 01-2119495093-35-0040

**3.2 Mixtures****4. First aid measures****4.1 Description of first aid measures**

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

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

No further relevant information available.

**4.3 Indication of any immediate medical attention and special treatment needed****Swallowing:**

Drink large amounts of water. Induce vomiting. Call for medical help.

**Inhaling:**

Take the person out into the fresh air.

**Contact with the skin:**

Wash with plenty of water. Remove contaminated clothing.

**Eyes:**

Wash with plenty of water (for at least 15 minutes), keeping eyelids open. In the event of irritation, seek medical assistance.

**5. Firefighting measures****5.1 Extinguishing media:**

As appropriate to the environment.

**5.2 Special hazards arising from the substance or mixture:**

Incombustible. Encourages fire to break out. Keep away from combustible substances. In the event of fire, toxic fumes may form: NO<sub>x</sub>.

**5.3 Advice for firefighters:**

Suitable clothing and footwear.

**6. Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures:**

Do not inhale the dust.

**6.2 Environmental precautions:**

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

**6.3 Methods and material for containment and cleaning up:**

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

**6.4 Reference to other sections**

Not applicable

**7. Handling and storage****7.1 Precautions for safe handling:**

No special indications.

**7.2 Conditions for safe storage, including any incompatibilities:**

Well sealed containers. Dry atmosphere.

**Recommended storage temperature:** Room temperature.

**7.3 Specific end use(s)**

No more relevant data available

**8. Exposure controls/personal protection****8.1 Control parameters:**

Data not available.

**8.2 Exposure controls**

No special indications.

Respiratory protection:

If dust forms, use suitable respiratory protection for particles P3.

Hand protection:  
Use suitable gloves neopren PVC nitrile latex

Eye/face protection:  
Use safety glasses.

Individual hygiene measures:  
Remove contaminated clothing. Use suitable work clothing. Wash hands before breaks and when the job is done.

Environmental exposure controls:  
Fulfill the commitments under local environmental protection legislation.

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

### **9.1 Information on basic physical and chemical properties**

Appearance: solid  
Colour: White  
Granulometry: N/A  
Odour: Odourless.  
pH: ~4 - 6  
Melting point/freezing point: 42 °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: 1,86 g/ml  
Solubility: 2.660 g/l in water ( 20 °C )  
Partition coefficient: n-octanol/water:  
N/A  
Auto-ignition temperature:  
N/A  
Decomposition temperature: above 130 °C  
Kinematic viscosity: N/A  
Dynamic viscosity:  
N/A

### **9.2 Other information**

No more relevant data available

## **10. Stability and reactivity**

### **10.1 Reactivity**

No specific data.

### **10.2 Chemical stability:**

No specific data.

### **10.3 Possibility of hazardous reactions**

No specific data.

#### **10.4 Conditions to avoid:**

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

#### **10.5 Incompatible materials:**

Ammoniacal compounds Organic compounds. Flammable substances. Reducing agents.

#### **10.6 Hazardous decomposition products:**

Nitrous fumes.

### **11. Toxicological information**

#### **11.1 Information on toxicological effects**

Acute toxicity:

LD50 oral rat : 3.900 mg/kg

Dangerous effects for health:

If dust inhaled: Irritations to the respiratory tracts. Upon contact with the skin:

irritations Through contact with the eyes: irritations Risk of sight disorders If

swallowed: nausea vomiting If swallowed in large quantities: methemoglobinemia with headaches Other dangerous characteristics are not discarded. Take the usual precautions for handling chemical products.

### **12. Environmental information**

#### **12.1 Toxicity:**

##### **- EC50 test (mg/l):**

Fish

(Nitrates) 500 mg/l

Classification:

Highly toxic

##### **- Receptor medium:**

Risk for the water environment

Risk for the land environment

##### **- Observations:**

Non-ecotoxic.

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

##### **- Test:**

##### **- Biotic degradation classification:**

BOD5/COD

Biodegradability

##### **- Abiotic degradation depending on pH:**

##### **- Observations:**

#### **12.3 Bioaccumulative potential:**

##### **- Test:**

##### **- Bioaccumulation:**

Risk

##### **- Observations:**

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

Data not available.

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

Data not available.

#### **12.6 Other adverse effects:**

If suitable handling conditions are maintained, no ecological problems are to be anticipated.

Nitrates can encourage eutrophy,

## **13. Disposal considerations**

### **13.1 Waste treatment methods:**

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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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. Transport information**

### **14.1 UN number**

UN1454

### **14.2 UN proper shipping name**

CALCIUM NITRATE

### **14.3 Transport hazard class(es)**

5.1

### **14.4 Packing group**

ADR/IMDG: III

IATA: III

### **14.5 Environmental hazards**

### **14.6 Special precautions for user**

Not applicable

### **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable

## **15. Regulatory information**

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

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

### **15.2 Chemical safety assessment**

Not applicable

## **16. Other information**

### **Other precautionary statements**

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

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

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In respect of the previous review, changes have been made to the following sections: 1

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.