



## 1258 Cobalt(II) Nitrate 6-hydrate

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

#### 1.1 Identification of the substance or preparation

Name:

Cobalt(II) Nitrate 6-hydrate

#### 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

### 2. Identification of dangers

Classification of the substance or the mixture.

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

Carc. 1B

Repr. 1B

Resp. Sens 1

Skin Sens. 1

Muta. 2

Aquatic Acute 1

Aquatic Chronic 1

## Hazard Pictograms



## Signal word

Danger

## Hazard statements

H350i May cause cancer by inhalation.

H360F May damage fertility.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.

H341 Suspected of causing genetic defects <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H410 Very toxic to aquatic life with long lasting effects.

## Precautionary statements

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P272 Contaminated work clothing should not be allowed out of the workplace.

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

**T** Toxic

R68

R42/43

R60

R49

R50/53

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

## 3. Component Composition/Information

Name: Cobalt(II) Nitrate 6-hydrate

Formula:  $\text{Co}(\text{NO}_3)_2 \cdot 6\text{H}_2\text{O}$  M.= 291,03 CAS [10026-22-9]

EC number (EINECS): 233-402-1

## 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:**

As appropriate to the environment.

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

No specific data.

**5.3 Special risks:**

Incombustible. In the event of fire, toxic fumes may form: NO<sub>x</sub>.

**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. Dry atmosphere. Restricted access, only authorized to technicians. Keep away from flammable substances, sources of ignition and heat.

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

Ensure good ventilation and renewal of the air in the premises.

**8.2 Exposure limit control:**

VLA-ED(Co): 0,02 mg/m<sup>3</sup>

**8.3 Respiratory protection:**

If dust forms, use suitable respiratory protection. Filter P3.

**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.

**8.7 Environmental exposure controls:**

Fulfill the commitments under local environmental protection legislation.

**9. Physical and chemical properties**

Appearance: solid

Colour: Red

Granulometry: N/A

Odour: Odourless.

pH: ~4 ((10% sol.))

Melting point/freezing point: 57 °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: 1.330 g/l in water ( 20 °C )

Partition coefficient: n-octanol/water:

N/A

Auto-ignition temperature:

N/A

Decomposition temperature: above 100 °C

Kinematic viscosity: N/A

Dynamic viscosity:

N/A

**10. Stability and reactivity****10.1 Conditions which should be avoided:**

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

**10.2 Matter which should be avoided:**

No specific data.

**10.3 Hazardous decomposition products:**

Nitrous fumes.

**10.4 Complementary information:**

Moisture sensitive. Through heating, the product loses the crystallization water.

## **11. Toxicological information**

### **11.1 Acute toxicity:**

LD50 oral rat : 691 mg/kg

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

If inhaled: Carcinogenic in animal testing. If swallowed: diarrhoea Symptoms due to acute intoxication of (Co): gastro-intestinal disorders loss of appetite anxiety spasms alteration of the body temperature hypotension kidney problems cardiovascular disorders pancreas disorders Risk of sensitization allergic reaction

## **12. Environmental information**

### **12.1 Toxicity:**

12.1.1 - EC50 test (mg/l):

Bacteria (Photobacterium phosphoreum) 16 mg/l

Classification:

Extr. toxic

Fish 4,0 mg/l

Classification:

Extr. toxic

Bacteria 6,2 mg/l

Classification:

Extr. toxic

Mammals 5,0 mg/l

Classification:

Extr. toxic

12.1.2. - Receptor medium:

Risk for the water environment

High

Risk for the land environment

Medium

12.1.3. - Observations:

Extremely toxic in water supplies and soils. Ecotoxicity acute and chronic.

### **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:

Bioaccumulable product.

(Co)

### **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: NITRATES, INORGANIC, N.O.S.

UN 1477 Class: 5.1 PELIG.M.AMB Packaging group: II (E)

By sea (IMDG):

Technical name: NITRATES, INORGANIC, N.O.S.

UN 1477 Class: 5.1 PELIG.M.AMB Packaging group: II

By air (ICAI-IATA):

Technical name: Nitrates, inorganic, n.o.s.

UN 1477 Class: 5.1 PELIG.M.AMB Packaging group: II

Packaging instructions: CAO 562 PAX 558

## **15. Regulatory information**

The substance is included in the Candidate List of Substances of Very High Concern (SVHC) according to Regulation (EC) No. 1907/2006 (REACH)

## **16. Other information**

### Other precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P281 Use personal protective equipment as required.  
P285 In case of inadequate ventilation wear respiratory protection.  
P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
P304+P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P308+P313 IF exposed or concerned: Get medical advice/attention.  
P321 Specific treatment (see on this label).  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.  
P363 Wash contaminated clothing before reuse.  
P391 Collect spillage.  
P405 Store locked up.

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

R-phrases(s):	<b>R68</b> Possible risk of irreversible effects. <b>R42/43</b> May cause sensitisation by inhalation and skin contact. <b>R60</b> May impair fertility. <b>R49</b> May cause cancer by inhalation. <b>R50/53</b> Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S-phrases(s):	<b>S61</b> Avoid release to the environment. Refer to special instructions/safety data sheets. <b>S60</b> This material and its container must be disposed of as hazardous waste. <b>S45</b> In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). <b>S53</b> Avoid exposure - obtain special instructions before use.

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.