



## 1275 Chromium(III) Nitrate 9-hydrate

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

#### 1.1 Identification of the substance or preparation

Name:

Chromium(III) Nitrate 9-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.**

Ox. Sol. 2

#### Hazard Pictograms



#### Signal word

Danger

### **Hazard statements**

H272 May intensify fire; oxidiser.

### **Precautionary statements**

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P220 Keep/Store away from clothing/combustible materials.

P221 Take any precaution to avoid mixing with combustibles.

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

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

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

**O** Oxidizing

R8

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

## **3. Component Composition/Information**

Name: Chromium(III) Nitrate 9-hydrate

Formula:  $\text{Cr}(\text{NO}_3)_3 \cdot 9\text{H}_2\text{O}$  M.= 400,15 CAS [7789-02-8]

EC number (EINECS): 236-921-1

## **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.

### **4.3 Contact with the skin:**

Wash with plenty of water. Remove contaminated clothing. Seek immediate medical assistance.

### **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:**

Encourages fire to break out. Keep away from combustible substances.

Incombustible. In the event of fire, toxic fumes may form: NOx.

#### **5.4 Protective equipment:**

Suitable clothing and footwear.

### **6. Measures to be taken in the event of accidental spillage**

#### **6.1 Individual precautions:**

Avoid contact with the skin, eyes or clothing.

#### **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. Room temperature. Keep away from flammable substances, sources of ignition and heat.

### **8. Staff exposure/protection controls**

#### **8.1 Technical protective measures:**

No special indications.

#### **8.2 Exposure limit control:**

VLA-ED(Cr): 0,5 mg/m<sup>3</sup>

#### **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:**

Use suitable work clothing. Remove contaminated 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: Violet

Granulometry: N/A

Odour: Characteristic.

pH: 2 - 3 ((50 g/l))

Melting point/freezing point: 60 °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: in Miscible with ethanol  
Partition coefficient: n-octanol/water:  
N/A  
Auto-ignition temperature:  
N/A  
Decomposition temperature: above 100 °C  
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:**

No specific data.

## **11. Toxicological information**

### **11.1 Acute toxicity:**

LD50 oral rat : 3.250 mg/kg

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

Animal testing. Low toxicity. If it is absorbed 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:**

12.1.1 - EC50 test (mg/l):

Bacteria (*Photobacterium phosphoreum*) (Cr) 15,3 mg/l

Classification: Extr. toxic

Algae (Cr) 5 mg/l

Classification: Extr. toxic

Crustaceans (*Daphnia magna*) (Cr) 0,32 mg/l

Classification: Extr. toxic

Fish (Cr) 29 mg/l

Classification: Extr. toxic

12.1.2. - Receptor medium:

Risk for the water environment

High

Risk for the land environment

High

12.1.3. - Observations:

Highly toxic throughout the trophic chain.

## **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:**

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.

### 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.

## 14. Information concerning transport

Overland (ADR):

Technical name: CHROMIUM NITRATE

UN 2720 Class: 5.1 Packaging group: III (E)

By sea (IMDG):

Technical name: CHROMIUM NITRATE

UN 2720 Class: 5.1 Packaging group: III

By air (ICAI-IATA):

Technical name: Chromium nitrate

UN 2720 Class: 5.1 Packaging group: III

Packaging instructions: CAO 563 PAX 559

## 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): **R8** Contact with combustible material may cause fire.

S-phrase(s): **S45** In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

**S36/37/39** Wear suitable protective clothing, gloves and eye/face protection.

**S26** In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

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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.