



## 3175 Cadmium \*standard solution Cd=1,000+-0,002 g/l

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

#### 1.1 Identification of the substance or preparation

Name:

Cadmium \*standard solution Cd=1,000+-0,002 g/l

**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.**

Eye Irrit. 2

STOT SE 3

Skin Irrit. 2

Aquatic Chronic 3

### Hazard Pictograms



**Signal word**

Warning

**Hazard statements**

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H315 Causes skin irritation.

H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements**

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

P264 Wash...thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

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

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

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

Xi Irritant

R52

R36/37/38

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

**3. Component Composition/Information**

Name: Cadmium \*standard solution Cd=1,000+-0,002 g/l

**Composition:****0001: Nitric Acid 69%**Formula: HNO<sub>3</sub> M.= 63,01 CAS [7697-37-2]

EC number (EINECS): 231-714-2

EC index number: 007-004-00-1

REACH Registration Number: 01-2119487297-23-XXXX

**Content:** >= 1 % <= 5 %**Classification Regulation (CE) nº 1272/2008.**

Skin Corr. 1A

Ox. Sol. 3

**Hazard Pictograms**

## Signal word

Danger

## Hazard statements

H314 Causes severe skin burns and eye damage.

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.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash...thoroughly after handling.

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

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

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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

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

P310 Immediately call a POISON CENTER or doctor/physician.

P321 Specific treatment (see on this label).

P338 Remove contact lenses, if present and easy to do. Continue rinsing.

P363 Wash contaminated clothing before reuse.

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

P405 Store locked up.

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

**C** Corrosive

**R35** Causes severe burns.

## 0002: Cadmium Nitrate 4-hydrate

Formula:  $\text{Cd}(\text{NO}_3)_2 \cdot 4\text{H}_2\text{O}$  M.= 308,49 CAS [10022-68-1]

EC number (EINECS): 233-710-6

EC index number: 048-001-00-5

**Content:**  $\geq 0,1 \%$   $\leq 1 \%$

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

Acute Tox. 4

Acute Tox. 4

Acute Tox. 4

Aquatic Acute 1

Aquatic Chronic 1

## Hazard Pictograms



## Signal word

Warning

### Hazard statements

H332 Harmful if inhaled.

H312 Harmful in contact with skin.

H302 Harmful if swallowed.

H410 Very toxic to aquatic life with long lasting effects.

### Precautionary statements

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

P264 Wash...thoroughly after handling.

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

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

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

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P322 Specific measures (see on this label).

P330 Rinse mouth.

P363 Wash contaminated clothing before reuse.

P391 Collect spillage.

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

**N** Dangerous for the environment

**Xn** Harmful

**R50/53** Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**R20/21/22** Harmful by inhalation, in contact with skin and if swallowed.

## 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.

### 4.4 Eyes:

Wash with plenty of water, keeping eyelids open. Seek medical assistance.

### 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:

**5.4 Protective equipment:**

Suitable clothing and footwear.

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

No special indications.

**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 with absorbent materials (Panreac General Absorbent, Kieselguhr, etc.) or, if none available, dry sand or earth, 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. In well ventilated premises.

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

No special indications.

**8.2 Exposure limit control:**

VLA-EC(HNO<sub>3</sub>): 4 ppm - 10 mg/m<sup>3</sup>

VLA-ED(HNO<sub>3</sub>): 5,2 mg/m<sup>3</sup>

VLA-ED(HNO<sub>3</sub>): 2 ppm

**8.3 Respiratory protection:**

In the event of fumes forming/aerosols, use suitable respiratory protection. Filter B. Filter P. Filter NOX.

**8.4 Hand protection:**

Use suitable gloves neopren latex

**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: liquid

Colour:

N/A

Granulometry: N/A

Odour: Odourless.

pH: 0,5

Melting point/freezing point: N/A

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: ~1,015

Solubility: Miscible with water

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:**

Metals.

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

No specific data.

### **10.4 Complementary information:**

No specific data.

## **11. Toxicological information**

### **11.1 Acute toxicity:**

: Data not available.

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

If fumes inhaled: Irritations to the respiratory tracts. Upon contact with the skin: irritations Through contact with the eyes: irritations If swallowed: Irritations of the mucosae in the mouth, throat, oesophagus and intestinal tract. If swallowed in large quantities: nausea vomiting diarrhoea stomach pains 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) 17 mg/l

Classification:

Extr. toxic

Bacteria (E. coli) EC0 0,15 mg/l

Classification:

Extr. toxic

Crustaceans (Daphnia magna) EC0 0,1 mg/l

Classification: Extr. toxic

Algae (Sc. quadricauda) EC0 0,1 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:

Toxic product in any environment. 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:

Data not available.

### **12.3 Bioaccumulative potential:**

12.3.1. - Test:

12.3.2. - Bioaccumulation:

Risk

12.3.3. - Observations:

Danger due to bioaccumulation of cadmium.

### **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.

High pollutant product.

Dangerous for drinking water.

DATA BASED on the components of the preparation.

## **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: CORROSIVE LIQUID, N.O.S.

UN 1760 Class: 8 Packaging group: III (E)

By sea (IMDG):

Technical name: CORROSIVE LIQUID, N.O.S.

UN 1760 Class: 8 Packaging group: III

By air (ICAI-IATA):

Technical name: Corrosive liquid, n.o.s

UN 1760 Class: 8 Packaging group: III

Packaging instructions: CAO 856 PAX 852

## **15. Regulatory information**

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

## **16. Other information**

### **Other precautionary statements**

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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

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

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P321 Specific treatment (see on this label).

P332+P313 If skin irritation occurs: Get medical advice/attention.

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

P362 Take off contaminated clothing and wash before reuse.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

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

R-phrase(s): **R52** Harmful to aquatic organisms.  
**R36/37/38** Irritating to eyes, respiratory system and skin.

S-phrase(s): **S61** Avoid release to the environment. Refer to special instructions/safety data sheets.  
**S60** This material and its container must be disposed of as hazardous waste.  
**S36/37** Wear suitable protective clothing and gloves.  
**S26** In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

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.