



Safety Data Sheet According to Regulation (EC) 1907/2006

6038 Cadmium standard solution Cd=1,000 g/l

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

1.1 Product identifier

Name:

Cadmium standard solution Cd=1,000 g/l

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 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

1.4 Emergency telephone:

Single telephone number for emergency calls: 112 (EU)

Tel.: (+34) 937 489 499

2. Identification of dangers

2.1 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

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

Xi Irritant

R52

R36/37/38

2.2 Label elements:

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 or 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 or face protection.

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

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

2.3 Other hazards:

No further relevant information available.

3. Composition/information on ingredients

Name: Cadmium standard solution Cd=1,000 g/l

COMPOSITION:

0001: Nitric Acid 69%

Formula: HNO₃ 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: >= 2 % <= 5 %

Classification Regulation (CE) n° 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 or 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: $\geq 0,2 \%$ $\leq 0,5 \%$

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 or 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 measures

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 soap and water. Remove contaminated clothing. In the event of irritation, seek medical assistance.

4.4 Eyes:

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

4.5 Swallowing:

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

5. Firefighting measures

5.1 Suitable extinguishing media:

Water. Carbon dioxide (CO₂). Alcohol resistant foam. Dry powder.

5.2 Unsuitable extinguishing media:

No specific data.

5.3 Special hazards arising from the substance or mixture:

Incombustible. In the event of fire, toxic fumes may form: Do not allow extinguishing water into surface or underground water courses.

5.4 Advice for firefighters:

Suitable clothing and footwear. Self-contained breathing equipment.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Avoid contact with the skin, eyes or clothing. Ensure adequate ventilation. Do not inhale the fumes.

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 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. Neutralize with diluted sodium hydroxide.

7. Handling and storage

7.1 Precautions for safe handling:

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

7.2 Conditions for safe storage, including any incompatibilities:

Well sealed containers. In a cool, dry, well ventilated place.

Recommended storage temperature: Room temperature.

8. Exposure controls/personal protection

8.1 Exposure controls:

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

8.2 Control parameters:

VLA-EC(HNO₃): 4 ppm = 10 mg/m³

VLA-ED(HNO₃): 2 ppm = 5,2 mg/m³

8.3 Respiratory protection:

In the event of fumes forming/aerosols, use suitable respiratory protection. Filter NO.

8.4 Hand protection:

Use suitable gloves neopren latex

8.5 Eye/face protection:

Use suitable goggles.

8.6 Individual hygiene measures:

Remove contaminated clothing. Wash hands and face before breaks and when the job is done. Use suitable work clothing. Do not eat, drink or smoke in the workplace. Do not inhale the substance.

8.7 Environmental exposure controls:

Fulfill the commitments under local environmental protection legislation.

9. Physical and chemical properties

Appearance: liquid

Colour: Colourless

Granulometry: N/A

Odour: Odourless.

pH:

N/A

Melting point/freezing point: -3 °C

Initial boiling point and boiling range: 101 °C

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:

Insertar Aquí Grupo de repetición

(20/4) 1,02 g/ml
Solubility: Miscible with water
Partition coefficient: n-octanol/water:
N/A
Auto-ignition temperature:
N/A
Decomposition temperature: N/A
Kinematic viscosity: N/A
Dynamic viscosity:
N/A

10. Stability and reactivity

10.1 Conditions to avoid:

High temperatures.

10.2 Incompatible materials:

Metals and metal alloys.

10.3 Hazardous decomposition products:

Nitrogen oxides.

10.4 Chemical stability:

No specific data.

11. Toxicological information

11.1 Acute toxicity:

: Data not available.

11.2 Dangerous effects for health:

Taking the preparation's components into account, the likely dangerous characteristics are as follows: If inhaled: Irritations to the mucosae coughing breathing difficulties 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: stomach pains intestinal disorders nausea vomiting (HNO₃): If it is absorbed in large quantities: metahemoglobinemia with headaches (Cd): Irritations to the skin, eyes, mucosae and respiratory tracts. May cause: oedemas in the respiratory tract 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 (L. Macrochirus) LD₅₀ 1,94 mg/l/96h (Cd)

- Receptor medium:

Risk for the water environment

Risk for the land environment

- Observations:

Ecotoxic in water environment.

The ecotoxicity is due to the pH deviation.

12.2 Persistence and Degradability :

- Test:

- Biotic degradation classification:

BOD₅/COD

Biodegradability

- Abiotic degradation depending on pH:

- Observations:

Data not available.

12.3 Bioaccumulative potential:

- Test:

- Bioaccumulation:

Risk

- Observations:

Data not available.

12.4 Mobility in soil :

Data not available.

12.5 Assessment PBT and MPMB :

Data not available.

12.6 Other adverse effects:

Do not allow it to enter soils or water channels.

Do not allow it to enter the sewage system.

Dangerous for drinking water.

Encourages eutrophy in rivers and water channels.

DATA BASED on the components of the preparation.

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.

.

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. Transport information

Overland (ADR):

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

UN 3264 Class: 8 Packaging group: III (E)

By sea (IMDG):

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

UN 3264 Class: 8 Packaging group: III

By air (ICAI-IATA):

Technical name: Corrosive liquid, acidic, inorganic n.o.s.

UN 3264 Class: 8 Packaging group: III

Packaging instructions: CAO 856 PAX 852

15. Regulatory information

The substance is subject to Regulation (EC) No 689/2008 of the European Parliament and of the Council of 17 June 2008 concerning the export and import of dangerous chemicals.

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.

Version and revision date : 5 17.07.2014

Replaced: 16.12.2013

In respect of the previous review, changes have been made to the following sections: 14

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.