



## Safety Data Sheet

According to Regulation (EC) 1907/2006



1125 Ammonium Dichromate \*moistened with 0,5-3,0% of H<sub>2</sub>O

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

## 1.1 Identification of the substance or preparation

Name:

Ammonium Dichromate \*moistened with 0,5-3,0% of H<sub>2</sub>O

## 1.2 Synonym:

## 1.3 Use of the substance/preparation:

For laboratory utilisation, analysis, research and fine chemistry.

## 1.4 Identification of the company or firm:

PANREAC QUIMICA S.L.U.

C/Garraf 2

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Emergencies:

Single telephone number for emergency calls: 112 (EU)

Tel.: (+34) 937 489 499

# Identification of dangers

Classification of the substance or the mixture.

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

Ox. Sol. 2

Carc. 1B

Muta. 1B

Repr. 1B

Acute Tox. 2

Acute Tox. 3

STOT RE 1

Acute Tox. 4

Skin Corr. 1B

Resp. Sens 1

Skin Sens. 1

Aquatic Acute 1

Aquatic Chronic 1

**Hazard Pictograms**



**Signal word**

Danger

### **Hazard statements**

H272 May intensify fire; oxidiser.

H350 May cause cancer <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H340 May cause genetic defects <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H360FD May damage fertility. May damage the unborn child.

H330 Fatal if inhaled.

H301 Toxic if swallowed.

H372 Causes damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

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

H317 May cause an allergic skin reaction.

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.

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

P220 Keep/Store away from clothing/.../combustible materials.

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

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

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

	R61
	R60
	R46
	R45
<b>N</b> Dangerous for the environment	RE21
<b>T+</b> Very toxic	RE25
	RE26
	R34
	R42/43
	RE48/23
	R50/53

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

## **Component Composition/Information**

Name: Ammonium Dichromate \*moistened with 0,5-3,0% of H<sub>2</sub>O

Formula: (NH<sub>4</sub>)<sub>2</sub>Cr<sub>2</sub>O<sub>7</sub> M.= 252,07 CAS [7789-09-5]

EC number (EINECS): 232-143-1

EC index number: 024-003-00-1

## 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 of suffocation, proceed to provide artificial respiration.

### 4.3 Contact with the skin:

Wash with plenty of water. Remove contaminated clothing.

### 4.4 Eyes:

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

### 4.5 Swallowing:

Drink large amounts of water. Induce vomiting. Seek medical assistance. Keep respiratory tracts clear. Clean injuries thoroughly with sterile material.

## Fire-fighting means

### 5.1 Suitable fire-extinguishing means:

Water.

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

### 5.3 Special risks:

Risk of explosion in the event of shock or friction. Risk of explosion of dust. Encourages fire to break out. Keep away from combustible substances.

### 5.4 Protective equipment:

## 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:

### 6.3 Methods for collection/cleaning:

Collect up carefully, striving to keep dampened, and deposit in waste containers for subsequent elimination in accordance with current legislation.

## Handling and storage

### 7.1 Handling:

No special indications.

### 7.2 Storage:

Well sealed containers. Away from sources of ignition and heat.

## Staff exposure/protection controls

### 8.1 Technical protective measures:

### 8.2 Exposure limit control:

### 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:

Remove contaminated clothing. Use suitable work clothing. Wash hands and face before breaks and when the job is done.

### 8.7 Environmental exposure controls:

Fulfill the commitments under local environmental protection legislation.

## Physical and chemical properties

Appearance: solid

Colour: Orange

Granulometry:

Odour: Odourless.

pH: 3 - 4 (100g/l)

Melting point/freezing point:

Initial boiling point and boiling range:

Flash point:

Flammability (solid, gas):

Upper/lower flammability or explosive limits:

Vapour pressure:

Vapour density:

Relative density: 2,15

Solubility: 360 g/l water 20 °C

Partition coefficient: n-octanol/water:

Auto-ignition temperature:

Decomposition temperature: above 180 °C

Viscosity:

## Stability and reactivity

**10.1 Conditions which should be avoided:**

**10.2 Matter which should be avoided:**

Oxidant agents. Air

**10.3 Hazardous decomposition products:**

**10.4 Complementary information:**

Explosive when dry.

## Toxicological information

• **Acute toxicity:**

• **Dangerous effects for health:**

Upon contact with the skin: burns Penetration of the product causes injuries which are hard to cure. Causes sensitization Through contact with the eyes: burns Can cause blindness (irreversible injury of the optic nerve) If swallowed: gastro-intestinal disorders alterations of the circulation Burns in the digestive apparatus Due to absorption: hepatic problems kidney problems If inhaled: allergic reaction Risk of pneumonia. Allergic reaction in nasal mucosae (perforation). Carcinogenic in animal testing. Risk of sensitization May cause heritable genetic damage.

## Environmental information

**12.1 Mobility:**

## **12.2 Ecotoxicity:**

12.2.1 - EC50 test (mg/l):

Fish 136 mg/l

Classification:

Highly toxic

12.2.2 - Receptor medium:

Risk for the water environment

Risk for the land environment

12.2.3 - Observations:

The ecotoxicity is due to the pH deviation and to the chromium.

Acute and chronically ecotoxicity in the dumping area.

## **12.3 Degradability:**

12.3.1 - Test:

12.3.2 - Biotic degradation classification:

BOD5/COD

Biodegradability

12.3.3 - Abiotic degradation depending on pH:

12.3.4 - Observations:

## **12.4 Accumulation:**

12.4.1 - Test:

12.4.2 - Bioaccumulation:

Risk

12.4.3 - Observations:

## **12.5 Other possible effects on the environment:**

Do not allow it to enter soils or water channels.

High pollutant product.

# **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.

## Information concerning transport

Overland (ADR):

Technical name: AMMONIUM DICHROMATE

UN 1439 Class: 5.1 PELIG.M.AMB Packaging group: II (E)

By sea (IMDG):

Technical name: AMMONIUM DICHROMATE

UN 1439 Class: 5.1 PELIG.M.AMB Packaging group: II

By air (ICAI-IATA):

Technical name: Ammonium dichromate

UN 1439 Class: 5.1 PELIG.M.AMB Packaging group: II

Packaging instructions: CAO 511 PAX 508

## Regulatory information

## Other information



### **Other 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.

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

P273 Avoid release to the environment.

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

P281 Use personal protective equipment as required.

P284 Wear respiratory protection.

P285 In case of inadequate ventilation wear respiratory protection.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

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

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

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.

P304+P341 IF INHALED: If breathing is difficult, 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.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P310 Immediately call a POISON CENTER or doctor/physician.

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

P314 Get medical advice/attention if you feel unwell.

P320 Specific treatment is urgent (see on this label).

P321 Specific treatment (see on this label).

P322 Specific measures (see on this label).

P330 Rinse mouth.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

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

P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

P363 Wash contaminated clothing before reuse.

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

P391 Collect spillage.

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):	<p><b>R61</b> May cause harm to the unborn child.</p> <p><b>R60</b> May impair fertility.</p> <p><b>R46</b> May cause heritable genetic damage.</p> <p><b>R45</b> May cause cancer.</p> <p><b>RE21</b> Also harmful in contact with skin.</p> <p><b>RE25</b> Also toxic if swallowed.</p> <p><b>RE26</b> Also very toxic by inhalation.</p> <p><b>R34</b> Causes burns.</p> <p><b>R42/43</b> May cause sensitisation by inhalation and skin contact.</p> <p><b>RE48/23</b> Also toxic: danger of serious damage to health by prolonged exposure through inhalation.</p> <p><b>R50/53</b> Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</p>
S-phrase(s):	<p><b>S61</b> Avoid release to the environment. Refer to special instructions/safety data sheets.</p> <p><b>S60</b> This material and its container must be disposed of as hazardous waste.</p> <p><b>S45</b> In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).</p> <p><b>S53</b> Avoid exposure - obtain special instructions before use.</p>
<p>Review number and date: 3 3.11.10</p> <p>Date published: 3.11.10</p> <p>In respect of the previous review, changes have been made to the following sections: 2, 3, 15</p> <p>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.</p>	