



## 4241 Ammonium \*standard solution NH<sub>4</sub>=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:

Ammonium \*standard solution NH<sub>4</sub>=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.

**No hazardous mixture as specified in Regulation (CE) 1272/2008.**

**No hazardous mixture as specified in Classification (67/548/CEE or 1999/45/CE).**

### 3. Component Composition/Information

Aqueous solution

Name: Ammonium \*standard solution NH<sub>4</sub>=1,000+-0,002 g/l

## Composition:

### 0001: Ammonium Chloride

Formula:  $\text{NH}_4\text{Cl}$  M.= 53,49 CAS [12125-02-9]  
EC number (EINECS): 235-186-4  
EC index number: 017-014-00-8  
REACH Registration Number: 01-2119487950-27-XXXX

**Content:**  $\leq 0,5 \%$

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

Acute Tox. 4  
Eye Irrit. 2

### Hazard Pictograms



### Signal word

Warning

### Hazard statements

H302 Harmful if swallowed.  
H319 Causes serious eye irritation.

### Precautionary statements

P264 Wash...thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P501 Dispose of contents/container according to Directive 94/62/CE or 2008/98/CE.  
P330 Rinse mouth.  
P337+P313 If eye irritation persists: Get medical advice/attention.

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

**Xn** Harmful

**R36** Irritating to eyes.

**R22** Harmful 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. In the event sickness persists, seek medical assistance.

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

Wash with plenty of 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. 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:**

In the event of fire, fumes may form: NH<sub>3</sub>. Incombustible.

#### **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 fumes.

#### **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. Neutralize with diluted sulphuric acid.

### **7. Handling and storage**

#### **7.1 Handling:**

No special indications.

#### **7.2 Storage:**

Well sealed containers. In well ventilated premises. Room temperature.

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

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

No special indications.

**8.2 Exposure limit control:**

: Data not available.

**8.3 Respiratory protection:**

In the event of fumes forming/aerosols, 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 complete protective equipment. 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.

**9. Physical and chemical properties**

Appearance: liquid

Colour:

N/A

Granulometry: N/A

Odour: Characteristic.

pH:

N/A

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: (20/4) 1

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:**

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

## **10.2 Matter which should be avoided:**

Alkaline solutions. Iodine. Strong acids. Metals and metal alloys.

## **10.3 Hazardous decomposition products:**

No specific data.

## **10.4 Complementary information:**

No specific data.

## **11. Toxicological information**

### **11.1 Acute toxicity:**

LD50 oral rat : 90 mg

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

Other dangerous characteristics are not discarded. Take the usual precautions for handling chemical products. If fumes inhaled: Can cause coughing bronchitis pulmonary oedema Upon contact with the skin: irritations Can cause dermatitis Through contact with the eyes: irritations If swallowed: Irritations of the mucosae in the mouth, throat, oesophagus and intestinal tract.

## **12. Environmental information**

### **12.1 Toxicity:**

12.1.1 - EC50 test (mg/l):

12.1.2. - Receptor medium:

Risk for the water environment

Risk for the land environment

12.1.3. - Observations:

The ecotoxicity is due to the pH deviation.

### **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.

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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**

Not classified as dangerous in the meaning of transport regulations.

## **15. Regulatory information**

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

## **16. Other information**

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.

In respect of the previous review, changes have been made to the following sections: 2, 3, 15

Date published: 3.11.10

Review number and date: 3 3.11.10