



S a f e t y   D a t a   S h e e t  
According to Regulation (EC) 1907/2006  
and (EU) 453/2010

**1129 Ammonia 25% \*(as NH<sub>3</sub>)**

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

**1.1 Product identifier**

Name:

Ammonia 25% \*(as NH<sub>3</sub>)

**Synonym:**

Ammonium Hydroxide

**CAS:** [1336-21-6]

**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](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**

**2.1 Classification of the substance or the mixture.**

## **Classification Regulation (CE) nº 1272/2008.**

Skin Corr. 1B  
Aquatic Acute 1  
STOT SE 3

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

<b>Xi</b>	Irritant	R50
<b>N</b>	Dangerous for the environment	R34
<b>C</b>	Corrosive	

## **2.2 Label elements:**

### **Hazard Pictograms**



**Signal word**  
Danger

### **Hazard statements**

H314 Causes severe skin burns and eye damage.  
H400 Very toxic to aquatic life.  
H335 May cause respiratory irritation.

### **Precautionary statements**

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

Aqueous solution

Name: Ammonia 25% \*(as NH<sub>3</sub>)  
Formula: NH<sub>3</sub> M.= 17,03 CAS [1336-21-6]  
EC number (EINECS): 215-647-6  
EC index number: 007-001-01-2

## **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 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. Avoid vomiting (there is a risk of perforation). Call for medical help. Do not neutralize.

## **5. Firefighting measures**

### **5.1 Suitable extinguishing media:**

As appropriate to the environment.

### **5.2 Unsuitable extinguishing media:**

No specific data.

### **5.3 Special hazards arising from the substance or mixture:**

In the event of fire, fumes may form:  $\text{NH}_3$ . Precipitate fumes formed with water. Cool the recipients with water. Incombustible. 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:**

Do not inhale the fumes.

### **6.2 Environmental precautions:**

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 sulphuric acid.

## **7. Handling and storage**

**7.1 Precautions for safe handling:**

No special indications.

**7.2 Conditions for safe storage, including any incompatibilities:**

Well sealed containers. In well ventilated premises.

**Recommended storage temperature:** Room temperature.

**8. Exposure controls/personal protection****8.1 Exposure controls:**

No special indications.

**8.2 Control parameters:**

VLA-EC[NH<sub>3</sub>(g)]: 35 ppm = 25 mg/m<sup>3</sup> VLA-ED[NH<sub>3</sub>(g)]: 25 ppm = 18 mg/m<sup>3</sup>

**8.3 Respiratory protection:**

In the event of fumes forming/aerosols, use suitable respiratory protection. Filter K. Filter P3.

**8.4 Hand protection:**

Use suitable gloves neopren PVC nitrile latex

**8.5 Eye/face protection:**

Use safety glasses.

**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: Colourless

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: 500 hPa (20 °C)

Vapour density: N/A

Relative density:

Insertar Aquí Grupo de repetición

(20/4) 0,91 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:**

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

### **10.2 Incompatible materials:**

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

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

No specific data.

### **10.4 Chemical stability:**

The gases/fumes can form explosive mixtures with the air.

## **11. Toxicological information**

### **11.1 Acute toxicity:**

LD50 oral rat : 350 mg/kg

LC L0 inh hmn : 5000 ppm 5 min

LC50 inh rat : 2000 ppm 4h

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

If fumes inhaled: coughing bronchitis pulmonary oedema If fumes form, highly irritant. Upon contact with the skin: irritations burns Through contact with the eyes: burns blindness (irreversible injury of the optic nerve) If swallowed: Irritations to the mucosae stomach pains nausea vomiting collapse loss of consciousness breathing difficulties May cause: perforation in the oesophagus and stomach.

## **12. Environmental information**

### **12.1 Toxicity:**

#### **- EC50 test (mg/l):**

Fish (Salmo gairdneri) EC10 0,3 mg/l

Classification: Extr. toxic

Crustaceans (Daphnia magna) 60 mg/l

Classification:

Extr. toxic

#### **- Receptor medium:**

Risk for the water environment

Medium

Risk for the land environment

Low

#### **- Observations:**

Extremely toxic in water environments.

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:**

## **12.3 Bioaccumulative potential:**

### **- Test:**

### **- Bioaccumulation:**

Risk

### **- Observations:**

## **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.

## **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.

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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. Transport information**

Overland (ADR):

Technical name: AMINOPYRIDINESAMMONIA SOLUTION, relative density between 0.880 and 0.957 at 15 °C in water, with more than 10% but not more than 35% ammonia

UN 2672 Class: 8 PELIG.M.AMB Packaging group: III (E)

By sea (IMDG):

Technical name: AMINOPYRIDINESAMMONIA SOLUTION, relative density between 0.880 and 0.957 at 15 °C in water, with more than 10% but not more than 35% ammonia

UN 2672 Class: 8 PELIG.M.AMB Packaging group: III

By air (ICAI-IATA):

Technical name: Ammonia solution

UN 2672 Class: 8 PELIG.M.AMB 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

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.

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

P321 Specific treatment (see on this label).

P363 Wash contaminated clothing before reuse.

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-phrases: **R50** Very toxic to aquatic organisms.  
**R34** Causes burns.

S-phrases: **S61** Avoid release to the environment. Refer to special instructions/safety data sheets.  
**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.

Version and revision date : 5 10.10.2014

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In respect of the previous review, changes have been made to the following sections: 2, 16

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.

