S a f e t y D a t a S h e e t

According to Regulation (EC) 1907/2006

211129 **Ammonia 25%** (as NH_3) QP

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

1.1 Identification of the substance or preparation

Name:

Ammonia 25% (as NH_3)

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

Emergencies:

Single telephone number for emergency calls: 112 (EU)

Tel.:(+34) Tel.:(+34) 937 489 499

2. Identification of dangers

Causes burns. Very toxic to aquatic organisms.

3. Component Composition/Information

Aqueous solution

Ammonia 25% (as NH_3)
CAS [1336-21-6] Formula: NH_3 M.=17,03
EC number (EINECS): 215-647-6
EC index number: 007-001-01-2
R: 34-50

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. Avoid vomiting (there is a risk of perforation). Seek medical assistance. Do not neutralize.

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:

5.3 Special risks:

In the event of fire, fumes may form: 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 Protective equipment:

Suitable clothing and footwear. Self-contained breathing equipment.

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:

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. Atmospheric temperature.

8. Staff exposure/protection controls

8.1 Technical protective measures:

8.2 Exposure limit control:

VLA-ED: 25 ppm or 18 mg/m3
VLA-EC: 35 ppm or 25 mg/m3

8.3 Respiratory protection:

In the event of fumes forming/aerosols, use suitable respiratory protection. Filter K. Filter P_3.

8.4 Hand protection:

Use suitable gloves (neopren, PVC, nitrile, latex).

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.

The supplier of the protection equipment must specify the type of protection to be worn when handling the substance or preparation, including the type of material and the breakthrough time of the material, with regard to the amount and duration of exposure.

9. Physical and chemical properties

Appearance:

Transparent, colourless liquid.

Odour:

Characteristic.

Vapour pressure: (20°C) 500 hPa
Density (20/4): 0,91
Solubility: Miscible with water

10. Stability and reactivity

10.1 Conditions which should be avoided:

10.2 Matter which should be avoided:

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

10.3 Hazardous decomposition products:

10.4 Complementary information:

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

11. Toxicological information

11.1 Acute toxicity:

LD_{50} oral rat: 350 mg/kg.
LC_{50} inh rat: 2000 ppm(V)/4h (anh.)

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. Can cause perforation in the oesophagus and stomach.

12. Environmental information

12.1 Mobility:

12.2 Ecotoxicity:

12.1.1 - EC_{50} test (mg/l):

Fish (Salmo gairdneri) = EC_{10} 0,3 mg/l ; Classification: Extr. toxic

Crustaceans (Daphnia magna) = 60 mg/l ; Classification: Extr. toxic

12.2.2 - Receptor medium:

Risk for the water environment = Medium

Risk for the land environment = Low

12.2.3 - Observations:

Extremely toxic in water environments. The ecotoxicity is due to the pH deviation.

12.3 Degradability:

12.3.1 - Test:-------

12.3.2 - Biotic degradation classification:

BOD_5/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.

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.

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. Information concerning transport

Overland (ADR):
Technical name: AMONIACO EN SOLUCIÓN acuosa con más del 10% pero no más del 35% de amoniaco
ONU 2672 Class: 8 Packaging group: III (E)
By sea (IMDG):
Technical name: AMONIACO EN SOLUCIÓN acuosa con más del 10% pero no más del 35% de amoniaco
ONU 2672 Class: 8 Packaging group: III
By air (ICAI-IATA):
Technical name: Amoníaco en solución
ONU 2672 Class: 8 Packaging group: III
Packaging instructions: CAO 813 PAX 819

15. Mandatory information

15.1 Labelling as per REACH

Symbols: 

Danger indications: Corrosive Dangerous for the environment

Phrases R: 34-50 Causes burns. Very toxic to aquatic organisms.

Phrases S: 26-36/37/39-45-61 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves and eye-face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Avoid release to the environment. Refer to special instructions-safety data sheet.

EC index number: 007-001-01-2

16. Other information

In respect of the previous review, changes have been made to the following sections: 5. Component Information:

Ammonia 25% (as NH_3)

CAS [1336-21-6] NH_3 M.=17,03

215-647-6 007-001-01-2

R: 34-50

Causes burns. Very toxic to aquatic organisms.

Review number and date:2 07.06.09

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.