



## 1288 Diethylamine

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

#### 1.1 Identification of the substance or preparation

Name:

Diethylamine

#### Synonym:

N-Ethylethanamine

**REACH Registration Number:** 01-2119475610-41-XXXX

#### 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

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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.

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

Flam. Liq. 2

Acute Tox. 4

Acute Tox. 4

Acute Tox. 4

Skin Corr. 1A

### Hazard Pictograms



### Signal word

Danger

### **Hazard statements**

H225 Highly flammable liquid and vapour.  
H332 Harmful if inhaled.  
H312 Harmful in contact with skin.  
H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.

### **Precautionary statements**

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
P233 Keep container tightly closed.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical/ventilating/lighting/.../ equipment.  
P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.

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

<b>C</b> Corrosive	R35
<b>F</b> Highly flammable	R20/21/22
	R11

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

## **3. Component Composition/Information**

Name: Diethylamine

Formula:  $\text{NH}(\text{C}_2\text{H}_5)_2$  M.= 73,14 CAS [109-89-7]

EC number (EINECS): 203-716-3

EC index number: 612-003-00-X

REACH Registration Number: 01-2119475610-41-XXXX

## **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.

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

Wash with plenty of water. Remove contaminated clothing.

### **4.4 Eyes:**

Wash with plenty of water, keeping eyelids open. In the event of irritation, seek medical assistance.

### **4.5 Swallowing:**

Drink large amounts of water. Avoid vomiting (there is a risk of perforation). Seek medical assistance.

## **5. Fire-fighting means**

**5.1 Suitable fire-extinguishing means:**

Carbon dioxide (CO<sub>2</sub>). Foam. Dry powder.

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

No specific data.

**5.3 Special risks:**

Combustible. Keep away from sources of ignition. May form explosive mixtures with the air. The fumes are heavier than air, so they may spread at floor level. In the event of fire, fumes may form: NO<sub>x</sub>. Precipitate fumes formed with water.

**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:**

Do not allow it to enter the drainage system. 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.

**7. Handling and storage****7.1 Handling:**

No special indications.

**7.2 Storage:**

Well sealed containers. Dry atmosphere. In well ventilated premises. Away from sources of ignition and heat. In a cool place.

**8. Staff exposure/protection controls****8.1 Technical protective measures:**

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

**8.2 Exposure limit control:**

VLA-EC: 10 ppm - 75 mg/m<sup>3</sup>

VLA-ED: 5 ppm - 30 mg/m<sup>3</sup>

**8.3 Respiratory protection:**

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

**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 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: -50 °C

Initial boiling point and boiling range: 55,5 °C

Flash point: - 39 °C

Flammability (solid, gas):

N/A

Upper/lower flammability or explosive limits: 10,1 %(V) / 1,7 %(V)

Vapour pressure: 253 hPa (20 °C)

Vapour density: N/A

Relative density: (20/4) 0,703

Solubility: Miscible with water

Partition coefficient: n-octanol/water:

N/A

Auto-ignition temperature: 310 °C

Decomposition temperature: N/A

Viscosity: N/A

## **10. Stability and reactivity**

### **10.1 Conditions which should be avoided:**

High temperatures.

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

Nitrites.

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

Nitrous fumes.

### **10.4 Complementary information:**

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

## **11. Toxicological information**

### **11.1 Acute toxicity:**

LD50 oral rat : 540 mg/kg

LD50 skn rbt : 820 mg/kg

LC L0 inh rat : 4000 ppm 4h

LC50 inh mus : 3000 mg/m3

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

If inhaled: Irritations to the mucosae coughing breathing difficulties Harmful to the health. Upon contact with the skin: irritations burns Harmful to the health. Through contact with the eyes: irritations burns If swallowed: Irritations of the mucosae in the mouth, throat, oesophagus and intestinal tract. Can cause Burns in the oesophagus and stomach. Harmful to the health. Other dangerous characteristics are not discarded. Take the usual precautions for handling chemical products.

## **12. Environmental information**

### **12.1 Toxicity:**

12.1.1 - EC50 test (mg/l):

Fish (*Leuciscus Idus*) > 500 mg/l

Classification:

Very toxic

Hydrologycal organisms. > 10 mg/l

Classification:

Highly toxic

12.1.2. - Receptor medium:

Risk for the water environment

Medium

Risk for the land environment

Low

12.1.3. - Observations:

Acute ecotoxicity in the dumping area.

### **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:

Biodegradable product.

### **12.3 Bioaccumulative potential:**

12.3.1. - Test:

12.3.2. - Bioaccumulation:

Risk

12.3.3. - Observations:

### **12.4 Mobility in soil :**

Log P(oct): 0,57

### **12.5 Assessment PBT and MPMB :**

Data not available.

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

Product hardly pollutant for water.

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**

Overland (ADR):

Technical name: DIETHYLAMINE

UN 1154 Class: 3 8 Packaging group: II (D/E)

By sea (IMDG):

Technical name: DIETHYLAMINE

UN 1154 Class: 3 8 Packaging group: II

By air (ICAI-IATA):

Technical name: Diethylamine

UN 1154 Class: 3 8 Packaging group: II

Packaging instructions: CAO 363 PAX 352

## **15. Regulatory information**

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

## **16. Other information**

### Other precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
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.  
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.  
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.  
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).  
P322 Specific measures (see on this label).  
P330 Rinse mouth.  
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.  
P403+P235 Store in a well-ventilated place. Keep cool.  
P405 Store locked up.  
P501 Dispose of contents/container according to Directive 94/62/CE or 2008/98/CE.

### Labelling (65/548/CEE or 1999/45/CE)

R-phrase(s):     **R35** Causes severe burns.  
                      **R20/21/22** Harmful by inhalation, in contact with skin and if swallowed.  
                      **R11** Highly flammable.

S-phrase(s):     **S29** Do not empty into drains.  
                      **S26** In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
                      **S16** Keep away from sources of ignition - No smoking.  
                      **S3** Keep in a cool place.  
                      **S36/37/39** Wear suitable protective clothing, gloves and eye/face protection.  
                      **S45** In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Review number and date: 4 15.09.2011

Date published: 15.09.2011

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

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.