



## Safety Data Sheet According to Regulation (EC) 1907/2006

### 1924 Ethanolamine

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

##### 1.1 Product identifier

Name:

Ethanolamine

##### Synonym:

2-Aminoethanol, mono-Ethanolamine

CAS: [141-43-5]

REACH Registration Number: 01-2119486455-28-XXXX

##### 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.

Acute Tox. 4

Acute Tox. 4

Acute Tox. 4

Skin Corr. 1B

STOT SE 3

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

**Xi** Irritant  
**C** Corrosive

R37  
R34  
R20/21/22

## 2.2 Label elements:

### Hazard Pictograms



### Signal word

Danger

### Hazard statements

H332 Harmful if inhaled.  
H312 Harmful in contact with skin.  
H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
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.  
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 or face protection.

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

Name: Ethanolamine

Formula:  $\text{NH}_2\text{CH}_2\text{CH}_2\text{OH}$  M.= 61,08 CAS [141-43-5]

EC number (EINECS): 205-483-3

EC index number: 603-030-00-8

REACH Registration Number: 01-2119486455-28-XXXX

## 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.

#### **4.4 Eyes:**

Wash with plenty of water, keeping eyelids open. Seek medical assistance.

#### **4.5 Swallowing:**

Drink large amounts of water. Induce vomiting. Call for medical help.

### **5. Firefighting measures**

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

Water. Carbon dioxide (CO<sub>2</sub>). Alcohol resistant foam. Dry powder.

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

No specific data.

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

Flammable. Keep away from sources of ignition. In the event of fire, toxic fumes may form:

#### **5.4 Advice for firefighters:**

Suitable clothing and footwear.

### **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.

### **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. Away from sources of ignition and heat.

**Recommended storage temperature:** Room temperature.

## **8. Exposure controls/personal protection**

### **8.1 Exposure controls:**

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

### **8.2 Control parameters:**

### **8.3 Respiratory protection:**

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

### **8.4 Hand protection:**

Use suitable gloves

### **8.5 Eye/face 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: ~12,3

Melting point/freezing point: 10,3 °C

Initial boiling point and boiling range: 170,8 °C

Flash point: 93 °C

Flammability (solid, gas):

N/A

Upper/lower flammability or explosive limits: 13,1 %(V) / 2,5 %(V)

Vapour pressure: 0,7 hPa (20 °C)

Vapour density: N/A

Relative density:

Insertar Aquí Grupo de repetición

(25/4) 1,0117 g/ml

Solubility: Miscible with water

Partition coefficient: n-octanol/water:

N/A

Auto-ignition temperature: 410 °C

Decomposition temperature: N/A

Kinematic viscosity: N/A

Dynamic viscosity: 23 mPa.s (20 °C)

## **10. Stability and reactivity**

**10.1 Conditions to avoid:**

High temperatures.

**10.2 Incompatible materials:**

Oxidant agents. Strong acids.

**10.3 Hazardous decomposition products:**

Nitrous fumes.

**10.4 Chemical stability:**

Hygroscopic. Exposure to air encourages decomposition.

**11. Toxicological information****11.1 Acute toxicity:**

LD50 oral rat : 1.720 mg/kg

LD50 skn rbt : 1.000 mg/kg

**11.2 Dangerous effects for health:**

If inhaled: Irritations to the mucosae coughing breathing difficulties Upon contact with the skin: irritations Through contact with the eyes: irritations If swallowed in large quantities: nausea vomiting Other dangerous characteristics are not discarded. Take the usual precautions for handling chemical products.

**12. Environmental information****12.1 Toxicity:****- EC50 test (mg/l):**

Bacteria (Photobacterium phosphoreum) 12,2 mg/l

Classification:

Extr. toxic

Fish 525 mg/l

Classification:

Highly toxic

**- Receptor medium:**

Risk for the water environment

Medium

Risk for the land environment

Low

**- Observations:****12.2 Persistence and Degradability :****- Test:****- Biotic degradation classification:**

BOD5/COD

Biodegradability

High, over 1/3

**- Abiotic degradation depending on pH:****- Observations:**

Easily biodegradable product.

**12.3 Bioaccumulative potential:****- Test:****- Bioaccumulation:**

Risk

**- Observations:**

Non-bioaccumulable product.

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

Data not available.

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

Data not available.

#### **12.6 Other adverse effects:**

Product hardly pollutant for water.

No interferences are to be anticipated in treatment plants if use correctly.

### **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: ETHANOLAMINE

UN 2491 Class: 8 Packaging group: III (E)

By sea (IMDG):

Technical name: ETHANOLAMINE

UN 2491 Class: 8 Packaging group: III

By air (ICAI-IATA):

Technical name: Ethanolamine

UN 2491 Class: 8 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

- 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.
- P405 Store locked up.
- P501 Dispose of contents/container according to Directive 94/62/CE or 2008/98/CE.
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.

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

- R-phrases(s):     **R37** Irritating to respiratory system.  
                          **R34** Causes burns.  
                          **R20/21/22** Harmful by inhalation, in contact with skin and if swallowed.
- S-phrases(s):     **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

Date published: 15.09.2011

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.