

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



1287 Diethanolamine

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

1.1 Identification of the substance or preparation

Name:

Diethanolamine

Synonym:

2,2'-Dioxydiethylamine, 2,2'-Iminodiethanol, Bis(b-Hydroxyethyl)Amine

REACH Registration Number: 01-2119488930-28-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

Polígono Pla de la Bruguera

E-08211 Castellar del Vallès

(Barcelona) Spain

Tel. (+34) 937 489 400

e-mail: 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.

Acute Tox. 4

Skin Irrit. 2

Eye Dam. 1

Hazard Pictograms



Signal word

Danger

Hazard statements

H302 Harmful if swallowed.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H373 May cause damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

Precautionary statements

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

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.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

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

Xn Harmful

R48/22

R41

R38

R22

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

3. Component Composition/Information

Name: Diethanolamine

Formula: $\text{NH}(\text{CH}_2\text{CH}_2\text{OH})_2$ M.= 105,14 CAS [111-42-2]

EC number (EINECS): 203-868-0

EC index number: 603-071-00-1

REACH Registration Number: 01-2119488930-28-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. 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. In the event of irritation, seek medical assistance.

4.5 Swallowing:

Drink large amounts of water. Induce vomiting. Seek medical assistance.

5. Fire-fighting means

5.1 Suitable fire-extinguishing means:

Water. Carbon dioxide (CO₂). Foam. Dry powder.

5.2 Fire-fighting means which must NOT be used:

No specific data.

5.3 Special risks:

Flammable. Keep away from sources of ignition. May form explosive mixtures with the air. In the event of fire, toxic fumes may form: NO_x.

5.4 Protective equipment:

Self-contained breathing equipment.

6. Measures to be taken in the event of accidental spillage

6.1 Individual precautions:

No special indications.

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. Room temperature.

8. Staff exposure/protection controls

8.1 Technical protective measures:

No special indications.

8.2 Exposure limit control:

VLA-ED: 0,46 ppm - 2 mg/m³

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 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: 11 ((10 g/l sol.))

Melting point/freezing point: 28 °C

Initial boiling point and boiling range: 271 °C

Flash point: 137 °C

Flammability (solid, gas):

N/A

Upper/lower flammability or explosive limits: 10,6 %(V) / 2,1 %(V)

Vapour pressure: <0,01 hPa (20 °C)

Vapour density: N/A

Relative density: (30/4) 1,0881

Solubility: Miscible with water

Partition coefficient: n-octanol/water:

N/A

Auto-ignition temperature: 370 °C

Decomposition temperature: N/A

Viscosity: N/A

10. Stability and reactivity

10.1 Conditions which should be avoided:

No special indications.

10.2 Matter which should be avoided:

Oxidant agents. Nitriles. Acids. Anhydrides. Copper.

10.3 Hazardous decomposition products:

No specific data.

10.4 Complementary information:

Hygroscopic.

11. Toxicological information

11.1 Acute toxicity:

LD50 oral rat : 710 mg/kg

LD50 skn rbt : 12.200 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: Irritations of the mucosae in the mouth, throat, oesophagus and intestinal tract. 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 EC10 80 mg/l

Classification: Extr. toxic

Crustaceans (Daphnia magna) 1,4 mg/l

Classification:

Extr. toxic

Algae (Sc. quadricauda) 4,4 mg/l

Classification:

Extr. toxic

Bacteria (Photobacterium phosphoreum) 73 mg/l

Classification:

Extr. toxic

12.1.2. - Receptor medium:

Risk for the water environment

Medium

Risk for the land environment

Low

12.2 Persistence and Degradability :

12.2.1 - Test:

BOD5 = 0,1 g/g

12.2.2. - Biotic degradation classification:

ThOD = 2,13 g/g

BOD5/COD Biodegradability

Medium, between 1/3 and 1/10

12.2.3. - Abiotic degradation depending on pH: = ---

12.2.4. - Observations:

Biodegradable product.

12.3 Bioaccumulative potential:

Non-bioaccumulable product.

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:

Product hardly pollutant for water.

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.

14. Information concerning transport

Overland (ADR):

Technical name: CORROSIVE LIQUID, N.O.S.

UN 1760 Class: 8 CONTAM. MAR Packaging group: III (E)

By sea (IMDG):

Technical name: CORROSIVE LIQUID, N.O.S.

UN 1760 Class: 8 CONTAM. MAR Packaging group: III

By air (ICAI-IATA):

Technical name: Corrosive liquid, n.o.s

UN 1760 Class: 8 CONTAM. MAR 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

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.

P314 Get medical advice/attention if you feel unwell.

P321 Specific treatment (see on this label).

P330 Rinse mouth.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P362 Take off contaminated clothing and wash before reuse.

P501 Dispose of contents/container according to Directive 94/62/CE or 2008/98/CE.

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

R-phrases: **R48/22** Harmful: danger of serious damage to health by prolonged exposure if swallowed.
R41 Risk of serious damage to eyes.
R38 Irritating to skin.
R22 Harmful if swallowed.

S-phrases: **S46** If swallowed, seek medical advice immediately and show this container or label.
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.

Review number and date: 4 1.2.11

Date published: 1.2.11

In respect of the previous review, changes have been made to the following sections: 14, 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.