



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

151289 Diethylene Glycol, 98% PS

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

1.1 Identification of the substance or preparation

Name:

Diethylene Glycol

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.

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Emergencies:

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2. Identification of dangers

Harmful if swallowed.

3. Component Composition/Information

Name: Diethylene Glycol

Formula: $O(CH_2CH_2OH)_2$ M.=106,12 CAS [111-46-6]

EC number (EINECS): 203-872-2 EC index number: 603-140-00-6

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.

4.5 Swallowing:

Drink large amounts of water. Induce vomiting. In the event of sickness, 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:

5.3 Special risks:

Combustible.

5.4 Protective equipment:

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

6.1 Individual precautions:

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.

7. Handling and storage

7.1 Handling:

No special indications.

7.2 Storage:

Well sealed containers. Dry atmosphere.

8. Staff exposure/protection controls

8.1 Technical protective measures:

8.2 Exposure limit control:

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:

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:

Odourless.

pH 7

Boiling point: 244°C

Melting point: -6°C

Flash point: 140°C

Self-ignition temperature: 370°C

Explosion limits (lower/upper): 1,8 / 12,2 Vol. %

Vapour pressure: (20°C) 0,03 hP

Density (20/4): 1,12

Solubility: Soluble in water, ethanol and ether.

10. Stability and reactivity

10.1 Conditions which should be avoided:

10.2 Matter which should be avoided:

10.3 Hazardous decomposition products:

10.4 Complementary information:

Hygroscopic.

11. Toxicological information

11.1 Acute toxicity:

LD₅₀ oral rat: 12565 mg/kg

LDLo oral man: 1 g/kg

LD₅₀ dermal rabbit: 11890 mg/kg

LD₅₀ intraperitoneal mouse: 9719 mg/kg

Eye irritation test (rabbits): 50 mg/72h: light

Rabbit skin sensitization test: 500 mg/72h: light

Skin irritation test (humans): 112 mg/3D: light

11.2 Dangerous effects for health:

If swallowed: nausea, vomiting, effects on the central nervous system, tiredness.

Can cause kidney problems.

Other dangerous characteristics are not discarded. Take the usual precautions for handling chemical products.

12. Environmental information

12.1 Mobility:

12.2 Ecotoxicity:

12.1.1 - EC₅₀ test (mg/l):

Bacteria (Photobacterium phosphoreum) = 29228 mg/l ; Classification: Hardly toxic.

Fish = 10000 mg/l ; Classification: Hardly toxic.

Risk for the water environment = Low

Risk for the land environment = Low

12.2.3 - Observations:

Hardly toxic.

12.3 Degradability:

12.3.1 - Test: BOD₅ = -----

12.3.2 - Biotic degradation classification:

BOD₅/COD Biodegradability = -----

12.3.3 - Abiotic degradation depending on pH: -----

12.3.4 - Observations:

Biodegradable product.

12.4 Accumulation:

12.4.1 - Test:

12.4.2 - Bioaccumulation:

Risk = -----

12.4.3 - Observations:

Non-bioaccumulable product.

12.5 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.

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

15. Mandatory information

Labelling as per REACH

Symbols: 

Danger indications: Harmful

Phrases R: 22 Harmful if swallowed.

Phrases S: 46 If swallowed, seek medical advice immediately and show this container or label.

EC index number: 603-140-00-6

16. Other information

Review number and date: 0 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.