



1897 Ethylene Glycol mono-Methyl Ether

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

1.1 Identification of the substance or preparation

Name:

Ethylene Glycol mono-Methyl Ether

Synonym:

2-Methoxy Ethanol, Methyl Cellosolve, Methylglycol

REACH Registration Number: 01-2119494721-33-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.

Repr. 1B

Flam. Liq. 3

Acute Tox. 4

Acute Tox. 4

Acute Tox. 4

Hazard Pictograms



Signal word

Danger

Hazard statements

H360D May damage the unborn child.
H226 Flammable liquid and vapour.
H332 Harmful if inhaled.
H312 Harmful in contact with skin.
H302 Harmful if swallowed.

Precautionary statements

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
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.

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

T Toxic

RE20/21/22
R10
R61
R60

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

3. Component Composition/Information

Name: Ethylene Glycol mono-Methyl Ether
Formula: HOCH2CH2OCH3 M.= 76,10 CAS [109-86-4]
EC number (EINECS): 203-713-7
EC index number: 603-011-00-4
REACH Registration Number: 01-2119494721-33-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. Loosen clothing to release respiratory channels.

4.3 Contact with the skin:

Wash with plenty of water. Remove contaminated clothing.

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. Administer a solution of medical-usage active charcoal. Seek immediate 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. The fumes are heavier than air, so they may spread at floor level. May form explosive mixtures with the air. Prevent the build-up of static.

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:

Avoid contact with the skin, eyes or clothing. 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. Room temperature. Restricted access, only authorized to technicians.

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-ED: 5 ppm - 16 mg/m³ dermal resorption

8.3 Respiratory protection:

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

8.4 Hand protection:

Use suitable gloves neopren nitrile

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.

9. Physical and chemical properties

Appearance: liquid

Colour: Colourless

Granulometry: N/A

Odour: Characteristic.

pH:

N/A

Melting point/freezing point: -85 °C

Initial boiling point and boiling range: 124,4 °C

Flash point: 38 °C

Flammability (solid, gas):

N/A

Upper/lower flammability or explosive limits: 20 %(V) / 2,5 %(V)

Vapour pressure: 11 hPa (20 °C)

Vapour density: N/A

Relative density: (20/4) 0,9666

Solubility: Miscible with water

Partition coefficient: n-octanol/water:

N/A

Auto-ignition temperature: 285 °C

Decomposition temperature: N/A

Kinematic viscosity: N/A

Dynamic viscosity:

N/A

10. Stability and reactivity**10.1 Conditions which should be avoided:**

High temperatures.

10.2 Matter which should be avoided:

Aluminium. Alkaline compounds. Oxidant agents. Air (formation of peroxides).

10.3 Hazardous decomposition products:

Peroxides.

10.4 Complementary information:

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

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

LD50 oral hmn : 3.380 mg/kg

LD50 oral rat : 2.370 mg/kg

LD50 skn rbt : 1.280 mg/kg

LC50 inh rat : 1500 ppm 7h

11.2 Dangerous effects for health:

If fumes inhaled: Irritations to the respiratory tracts. coughing breathing difficulties Upon contact with the skin: irritations Risk of cutaneous absorption. Through contact with the eyes: irritations If swallowed: Harmful to the health. If it is absorbed in large quantities: kidney problems hepatic problems Systemic effects: effects on the central nervous system blood alterations

12. Environmental information

12.1 Toxicity:

12.1.1 - EC50 test (mg/l):

Bacteria (Ps. putida) EC0 > 10000 mg/l

Classification: Hardly toxic.

Algae (Sc. quadricauda) EC0 > 10000 mg/l

Classification: Hardly toxic.

Algae (M. aeruginosa) EC0 100 mg/l

Classification: Very toxic

12.1.2. - Receptor medium:

Risk for the water environment

Medium

Risk for the land environment

Low

12.1.3. - Observations:

The toxicity is not very high.

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:

12.3 Bioaccumulative potential:

12.3.1. - Test:

12.3.2. - Bioaccumulation:

Risk

12.3.3. - Observations:

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.

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: ETHYLENE GLYCOL MONOMETHYL ETHER

UN 1188 Class: 3 Packaging group: III (D/E)

By sea (IMDG):

Technical name: ETHYLENE GLYCOL MONOMETHYL ETHER

UN 1188 Class: 3 Packaging group: III

By air (ICAI-IATA):

Technical name: Ethylene glycol monomethyl ether

UN 1188 Class: 3 Packaging group: III

Packaging instructions: CAO 366 PAX 355

15. Regulatory information

The substance is included in the Candidate List of Substances of Very High Concern (SVHC) according to Regulation (EC) No. 1907/2006 (REACH)

16. Other information

Other precautionary statements

P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
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.
P281 Use personal protective equipment as required.
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.
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.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P322 Specific measures (see on this label).
P330 Rinse mouth.
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-phrases(s):	RE20/21/22 Also harmful by inhalation, in contact with skin and if swallowed. R10 Flammable. R61 May cause harm to the unborn child. R60 May impair fertility.
S-phrases(s):	S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). S53 Avoid exposure - obtain special instructions before use.

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.