

Material Safety Data Sheet



DIETHYLENE GLYCOL

VERSION : 04
DATE OF ISSUE : 01-08-2023
SUPERSEDES : 03

Product Code : 14170

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

1.1. Product identifier

Trade name : DIETHYLENE GLYCOL
Product code : 14170
Identification of the product : Diethylene Glycol
CAS No : 111-46-6

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

1.3. Details of the supplier of the safety data sheet

Company identification : MOLYCHEM
Office: 78/80 Babu Genu Road, Souri Bldg., 2nd Floor,
Mumbai – 400 002 (INDIA)
Tel:+91 22 4066 8111, 2205 7772 . Fax: + 91 22 2203 4442.
Email : info@molychem.net
Works: Plot No. B/9, Badlapur M.I.D.C.,OPP.Shobhavat
Textile Co.,Kulgaon, Badlapur (E), Dist.-Thane-421 503.

1.4. Emergency telephone number

Emergency number : +91 22 4066 8111 (10:00am - 6:00 pm)

2. Hazards identification –DSD

2.1. Classification of the substance or mixture

Acute toxicity, (Category 4) H302: Harmful if swallowed.

2.2. Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram



Signal Word Warning

Hazard Statements

H302 Harmful if swallowed.

Precautionary Statements

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P301 + P312 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell.

P501 Dispose of contents/ container to an approved waste disposal plant.

Supplemental Hazard none

Statements

2.3. Other hazards : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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3.Composition/information on ingredients

3.1 Substances

Formula : C₄H₁₀O₃
Molecular weight : 106.12 g/mol
CAS-No. : 111-46-6
EC-No. : 203-872-2
Index-No : 603-140-00-6

Component	Classification	Concentration
diethylene glycol		
CAS-No. 111-46-6	Acute Tox. 4; H302	<= 100 %
EC-No. 203-872-2		
Index-No. 603-140-00-6		

4. First aid measures

4.1. Description of first aid measures

General advice

Show this material safety data sheet to the doctor in attendance.

If inhaled

After inhalation: fresh air.

In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

In case of eye contact

After eye contact: rinse out with plenty of water. Remove contact lenses.

If swallowed

After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

4.2. Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3. Indication of any immediate medical attention and special treatment needed

No data available

5. Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water Foam Carbon dioxide (CO₂) Dry powder

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

5.2. Special hazards arising from the substance or mixture

Carbon oxides

Combustible.

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Vapors are heavier than air and may spread along floors.

Forms explosive mixtures with air on intense heating.

Development of hazardous combustion gases or vapours possible in the event of fire.

5.3. Advice for fire-fighters

In the event of fire, wear self-contained breathing apparatus.

5.4 Further information

Prevent fire extinguishing water from contaminating surface water or the ground water system.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

For personal protection see section 8.

6.2. Environmental precautions

Do not let product enter drains.

6.3. Methods and material for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

6.4. Reference to other sections

For disposal see section 13.

7. Handling and storage

7.1. Precautions for safe handling

For precautions see section 2.2.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

Tightly closed.

Storage class

Storage class (TRGS 510): 10: Combustible liquids

7.3. Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. Exposure controls/personal protection

8.1. Exposure controls

Personal protection : Avoid all unnecessary exposure.

Respiratory protection : Wear approved mask.

Hand protection : Wear protective gloves.

Skin protection : Wear suitable protective clothing.

Eye protection : Chemical goggles or safety glasses.

Others : When using, do not eat, drink or smoke.

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8.2. Control parameters

Occupational Exposure Limits : No data available.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	liquid
Color	colorless
Odor	odorless
Melting point/freezing point	Melting point/freezing point: - 6.5 °C.
Initial boiling point and boiling range	244.9 °C
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	Upper explosion limit: 37 %(V) Lower explosion limit: 1.7 %(V)
Flash point	138 °C - closed cup
Autoignition temperature	372 °C at 1.013.25 hPa
Decomposition temperature	Distillable in an undecomposed state at normal pressure.
pH	6 - 8 at 200 g/l at 20 °C
Viscosity	Viscosity, kinematic: No data available Viscosity, dynamic : No data available
Water solubility	1.000 g/l at 20 °C - miscible
Partition coefficient: n-octanol/water	log Pow: -1.98 at 25 °C - Bioaccumulation is not expected., (IUCLID)
Vapor pressure	< 0.1 hPa at 25 °C
Density	1.18 g/cm ³ at 20 °C
Relative density	1.118 at 20 °C
Relative vapor density	3.66
Particle characteristics	No data available
Explosive properties	No data available
Oxidizing properties	None

9.2. Other information

Relative vapor	3.66
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10. Stability and reactivity

10.1. Reactivity

Forms explosive mixtures with air on intense heating.

10.2. Chemical stability

The product is chemically stable under standard ambient conditions (room temperature).

10.3. Possibility of hazardous reactions

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Violent reactions possible with:

Strong oxidizing agents

Exothermic reaction with:

Strong acids

10.4. Conditions to avoid

Strong heating.

10.5. Incompatible materials

Zinc

10.6. Hazardous decomposition products

In the event of fire: see section 5

11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Harmful if swallowed.

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

Skin corrosion/irritation : Not classified

pH: 6 – 8 at 20 °C

Serious eye damage/irritation : Not classified.

pH: 6 – 8 at 20 °C

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

Potential adverse human : Harmful if swallowed.

health effects and symptoms

12. Ecological information

12.1. Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and

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toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

No data available

13. Disposal considerations

13.1. Waste treatment methods

No data available

14. Transport information

14.1. UN number

ADR/RID: -

IMDG :

IATA:

14.2. UN proper shipping name

ADR/RID :

Not dangerous goods

IMDG:

Not dangerous goods

IATA:

Not dangerous goods

14.3. Transport hazard class(es)

ADR/RID :

IMDG :

IATA :

14.4. Packaging group

ADR/RID :

IMDG :

IATA :

14.5 Environmental hazards

ADR/RID : no

IMDG : Marine pollutant: no

IATA : no

14.6 Special precautions for user

No data available

Further information

Not classified as dangerous in the meaning of transport regulations.

15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

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

Authorisations and/or restrictions on use

Other regulations Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable.

Take note of Dir 94/33/EC on the protection of young people at work.

15.2. Chemical Safety Assessment


A Chemical Safety Assessment has been carried out for this substance.

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16. Other information

Abbreviations and acronyms :

PBT : persistent, bioaccumulative and toxic.

vPvB: very persistent and very bioaccumulative

Sources of key data used : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

Further information : None.

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008
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End of document

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