

Safety Data Sheet

GBF Number SDS-75
 Prepare Date 24.01.2025
 Revision Date -
 Revision -



likitkimya

DI ETHYLENE GLYCOL (DEG)

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

1.1 Product identifiers

Product Name DI ETHYLENE GLYCOL
CAS-Number 111-46-6

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

Identified uses : Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company : Likit Kimya Sanayi Ticaret A.Ş.
Terminal Address : Terminal Adres: Sultanköy Merkez Mah.İncirli Mandıra Cd. No:64
 Marmara Ereğlisi/Tekirdağ/ TURKEY
Terminal Telephone : 0 282 613 41 38
Central Office Address : Nartanesi Sokak No:16/A Küçükbakkalköy 34750
 Ataşehir /İstanbul / TURKEY

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E-mail : info@likitkimya.com
 : ismail_kucukbingol@likitkimya.com
 : ibrahim_caginda@likitkimya.com

Web site : www.likitkimya.com

1.4 Emergency telephone number Emergency telephone number

Emergency First Aid Center 112
 Poison Information Center 114
 Company Advisory 0 282 613 41 38

2. Composition/information on ingredients

2.1 Mixtures

Formula C₄H₁₀O₃
Molecular Weight 106,12 g/mol
CAS-Number 111-46-6
EC-Number 203-872-2
Index Number 603-140-00-6

Hazardous material according to Regulation (EC) No 1272/2008

component		Classification	Concentration
Mono Ethylene Glycol			
CAS No	111-46-6	H302, H373	≥%99

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3. Hazards identification

3.1 Classification of substance and mixture

Classification according to Regulation (EC) No 1272/2008

Harmful if swallowed H302

Prolonged or repeated exposure may cause damage to organs. H373

For the full text of the H-Statements mentioned in this Section, see Section 16.

3.2 Label Elements

Labeling according to Regulation (EC) No 1272/2008 [CLP]

Piktogram



Warning Word

Danger

Hazard statements

Harmful if swallowed H302

Prolonged or repeated exposure may cause damage to organs. H373

Precautionary statements

Do not breathe mist and vapor.	P260
Wash Your Hands Thoroughly After Use.	P264
Do not eat or smoke while using this product.	P270
If swallowed, call a doctor if you feel unwell. Poison	P301+P312
Call the centre.	
Mouth Rinse.	P330
Get medical help if you feel unwell.	P314
Dispose of contents/container at an approved waste disposal facility.	P501
No Additional Hazard Statements.	

3.3 Other hazards No

4. First Aid measures

4.1 Description of first aid measures

General Recommendation

Consult the doctor. Show this safety data sheet when you consult your doctor.

If inhaled

Move victim away from exposure area - avoid casualties. Remove contaminated clothing and loosen remaining clothing. Allow the patient to assume the most comfortable position and

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stay warm. Continue resting until you fully recover. If the patient has difficulty breathing and develops a bluish discoloration of the skin (which indicates a lack of cyanosis in the blood), have the airways clear of any obstruction and have a qualified person administer oxygen via a face mask. If the patient is not breathing, apply artificial respiration. Get medical help immediately.

In contact with skin

Take off contaminated clothing and shoes immediately. Wash with soap and plenty of water. Consult the doctor.

In case of eye contact

If it gets into your eyes, rinse thoroughly with plenty of water immediately and consult a doctor.

If swallowed

Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult the doctor.

4.2 Most important symptoms and effects, both acute and delayed

Known symptoms and effects are stated on the label (see section 3.2 and/or section 11).

4.3 Indication of any immediate medical attention and special treatment needed

There is no data available.

5. Fire-fighting measures

5.1 Fire extinguishers

Suitable fire extinguishers

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

carbon oxides

Flammable.

Vapors heavier than air may condense on the ground.

It forms explosive mixtures with air in intense heat.

In case of fire, hazardous flammable gases or vapors may develop

5.3 Advice for firefighters

On combustion, it emits toxic vapors, including those of carbon oxides. Self-contained breathing apparatus and appropriate protective clothing should be worn if there is a risk of exposure to vapour.

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Burning products, Heating may cause expansion or decomposition of the material; this could cause the containers to explode. If safe to do so, remove containers from the path of the fire. Cool the containers held with water spray.

5.4 Additional information

Clear open areas of all unprotected personnel. Turn off all possible sources of ignition. If contaminated sewers or waterways occur, advise local emergency services.

6. Precautions against accidental release

6.1 Personal precautions, protective equipment and emergency procedures

Warn non-emergency personnel: Do not breathe vapour, aerosol. Avoid substance contact. Make sure there is good ventilation. Evacuate danger area, follow emergency procedures, consult a specialist. For personal protection, see section 8.

6.2 Environmental precautions

Be careful not to mix it with sewage.

6.3 Methods and materials for containment and cleaning

Seal the drainage channels. Collect spills, cover and pump away. Possible comply with material restrictions (see Sections 7 and 10). Take with liquid absorbent material (e.g. Chemizorb®). Send for destruction. Clean the affected area.

6.4 References to other sections

For waste disposal, see section 13.

7. Handling and storage

7.1 Precautions for safe handling

Avoid contact with eyes and skin. Do not breathe vapor or vapor cloud.

For precautions, see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool place. Keep the container tightly closed in a dry and well-ventilated place. Opened containers should be carefully closed and kept upright to prevent spillage.

Keep it out of reach of children.

8. Exposure controls / personal protection

8.1 Control parameters

Components with workplace control parameters

8.2 Exposure controls

Appropriate engineering controls

Ensure ventilation is adequate and air concentrations of components are controlled within specified Workplace Exposure Standards. Heavier-than-air vapor – prevents concentrations in cavities or collections.

DO NOT take it to enclosed areas where steam may collect. Keep containers closed when not in use.

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If safe exposure levels may be exceeded in the handling and application of this material, the use of engineering controls such as local exhaust ventilation should be considered and the results documented. If achieving safe exposure levels does not require engineering controls, a detailed and documented risk assessment using relevant Personal Protective Equipment (PPE) (see PPE section below) should be carried out to determine minimum PPE requirements.

Personal protective equipment

The choice of PPE depends on a detailed risk assessment. Risk assessment work situation, physical form of the chemical, methods of use and environmental factors.
GENERAL, SAFETY SHOES, SAFETY GLASSES, GLOVES, BREATHER.

Wear overalls, safety glasses and impermeable gloves. Use with adequate ventilation. If determined by a risk assessment, there is an inhalation risk,
AS/NZS 1715 and AS/NZS 1716 requirements. Always wash your hands before smoking or eating.
Wash contaminated clothing and other protective equipment.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

- a) Appearance Physical state
Color Liquid
Colorless
- b) Odor Odorless
- c) Odor Threshold No data available.
- d) pH 6-8 200 g/l 20 oC
- e) Melting point/ Freezing point -6.5 °C
- f) Initial boiling point and boiling range 244.9 °C at 1.013 hPa - (ECHA)
- g) Flash point 138° C
- h) Evaporation point No data available.
- i) Flammability temperature (solid, gas)
No data available.
- j) Upper/lower flammability or explosion limits Upper explosive limit: 37%(V)
Lower explosive limit: 1.7%(V)

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- k) Vapor pressure < 0.1 hPa at 25 °C
l) Vapor density 3.66 – (Air = 1.0)
m) Relative density 1.18 g/ml
n) Solubility in water. Soluble.
o) Partition coefficient (n-octanol/water) No data available.
p) Auto-ignition temperature No data available.
q) Decomposition temperature No data available.
r) Viscosity No data available.
s) Explosive properties No data available.
t) Oxidizing properties No data available.

9.2 Other safety information

There is no data available.

10. Stability and reactivity

10.1 Reaction

Reacts with strong oxidizing agents.

10.2 Chemical stability

It is stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

There is no data available.

10.4 Conditions to avoid

Excessive heat causes accelerated oxidative degradation.

10.5 Substances to avoid

Incompatible with strong oxidizing agents.

10.6 Harmful decomposition products

Carbon oxides.

11. Toxicological information

11.1 Information about toxic effects

Conforms to Regulation (EC) No. 1272/2008 (REACH), Annex II

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Acute toxicity

Oral: No data available

In case of inhalation: No data available

LD50 Dermal - Rabbit - 11.890 mg/kg

Notes: (RTECS)

Skin corrosion/irritation

Skin - Rabbit

Results: No skin irritation observed

Notes: (IUCLID)

Serious eye damage/irritation

Eyes - Rabbit

Results: No eye irritation

Notes: (IUCLID)

Respiratory or skin sensitization

Maximization Test - Guinea Pig

Results: negative

Notes: (ECHA)

Germ cell mutagenicity

Test Type: Ames test

Test system: Escherichia coli/Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Testing Guide 471

Results: negative

Test Type: in vivo micronucleus test

Species: Mouse

Cell type: Bone marrow

Application Method: Intraperitoneal

Method: OECD Testing Guide 474

Results: negative

Carcinogenicity

No data available

reproductive toxicity

No data available

Specific Target Organ Toxicity – Single exposure

No data available

Specific Target Organ Toxicity – Repeated exposure

No data available

Aspiration toxicity

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No data available

12. Ecological information

12.1 Toxicity

on fishes

Toxicity flow-through test LC50 - Pimephales promelas (Carp fry) -75.200 mg/l - 96 h

Notes: (ECHA)

on bacteria

toxicity

12.2 Persistence and Degradability

No data available

Theoretical oxygen 1.510 mg/g

Need Notes: (Source)

BOD/ThBOD ratio 1.3 - 10 %

Notes: (Source)

12.3 Bioaccumulation potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment; It is not available because chemical safety assessment is not required/implemented.

12.6 Other adverse effects

No data available

13. Disposal information

13.1 Waste treatment methods

Product

Offer to give the residues and non-recyclable solutions to a waste disposal company.

Contaminated Packaging

Dispose of as unused product.

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14. Transport information

Road Transport

Not classified as Dangerous Goods under the criteria of the Australian Dangerous Goods Code (ADG Code) for carriage by Road and Rail; NON-DANGEROUS PRODUCTS.

Sea Transportation

Not classified as Dangerous Goods according to the criteria of the International Maritime Dangerous Goods Code (IMDG Code); NON-DANGEROUS PRODUCTS.

Air Transportation

Not classified as Dangerous Goods according to International Air Transport Association (IATA) criteria

Dangerous Goods Regulations for transport by air; NON-DANGEROUS PRODUCTS.

15. Regulatory information

This substance contains safety data sheet (EC) no. It complies with the requirements of EU Regulation No. 1272/2008 (REACH).

15.2 Chemical Safety Assessment

There is no data available.

15.3 Chemical Safety Assessment

A chemical safety assessment has not been conducted for this product.

16. Other information

Full text of H-Statements referred to under sections 2 and 3

Hazard statements

Harmful if swallowed H302

Prolonged or repeated exposure may cause damage to organs.

H373

Precautionary statements

Do not breathe mist and vapor.

P260

Wash Your Hands Thoroughly After Use.

P264

Do not eat or smoke while using this product.

P270

If swallowed, call a doctor if you feel unwell. Poison

P301+P312

Call the centre.

Mouth Rinse.

P330

Get medical help if you feel unwell.

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Dispose of contents/container at an approved waste disposal facility.

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No Additional Hazard Statements.

Additional Information

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