

## Safety Data Sheet

SDS Number SDS-61  
Prepare Date 03.07.2019  
Revision Date 22.01.2022  
Revision 2



likitkimya

## MONO ETHYLENE GLYCOL (MEG)

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

#### 1.1 Product identifiers

Product name Mono Ethylene Glycol  
CAS-No. 107-21-1

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

Identified uses Polyester, resins, wetting and plasticizing agent, coolant additives

#### 1.3 Details of the supplier of the safety data sheet

**Company** Likit Kimya Sanayi Ticaret A.Ş.  
**Terminal Address** Terminal Adres: Seymen Yolu. 3.km Marmara Ereğlisi/Tekirdağ  
**Terminal Telephone** 0 282 613 41 38  
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**Web** [www.likitkimya.com](http://www.likitkimya.com)

#### 1.4 Emergency telephone number

**Emergency Phone** 112  
**Company information desk** +90 (282) 613 41 38

### 2. Hazards identification

#### 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008**

Acute Oral Toxicity - Category 4

Specific target organ toxicity (repeated exposure) - Category 2

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

**Classification according to EU Directives 67/548/EEC or 1999/45/EC**

#### 2.2 Label elements

**Labelling according Regulation (EC) No 1272/2008**

Pictogram



Signal word

Warning

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### Hazard statement(s)

H302 Harmful if swallowed  
H373 May cause damage to organs through prolonged or repeated exposure

### Precautionary statement(s)

P260 Do not breathe mist, vapours, spray.  
P264 Wash hands thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product  
P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
P330 Rinse mouth.  
P314 Get medical advice/attention if you feel unwell

### 2.3 Other hazards

Lachrymator.

## 3. Composition/information on ingredients

### 3.1 Substances

Formula  $C_2H_6O_2$   
Molecular weight 62,07 g/mol

### Hazardous ingredients according to Regulation (EC) No 1272/2008

Component	Classification	Concentration
Monoethylene Glycol		
CAS No	107-21-1	H302 , H373
		≥99,9 %

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

## 4. First aid measures

### 4.1 Description of first aid measures

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

#### If inhaled

Remove victim from area of exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. If patient finds breathing difficult and develops a bluish discolouration of the skin (which suggests a lack of oxygen in the blood - cyanosis), ensure airways are clear of any obstruction and have a qualified person give oxygen through a face mask. Apply artificial respiration if patient is not breathing. Seek immediate medical advice.

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### In case of skin contact

If skin contact occurs, remove contaminated clothing and wash skin with running water. If irritation occurs seek medical advice.

### In case of eye contact

If in eyes, wash out immediately with water. In all cases of eye contamination it is a sensible precaution to seek medical advice.

### If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. 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. Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

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

### 5.2 Special hazards arising from the substance or mixture

Combustible liquid.

### 5.3 Advice for firefighters

On burning will emit toxic fumes, including those of oxides of carbon . Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion. Heating can cause expansion or decomposition of the material, which can lead to the containers exploding. If safe to do so, remove containers from the path of fire. Keep containers cool with water spray.

### 5.4 Further information

Clear area of all unprotected personnel. Shut off all possible sources of ignition. If contamination of sewers or waterways has occurred advise local emergency services.

## 6. Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contact and breathing in vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal. Wash area down with excess water.

## 7. Handling and storage

### 7.1 Precautions for safe handling

Classified as a C1 (COMBUSTIBLE LIQUID) for the purpose of storage and handling, in accordance with the requirements of AS 1940. Refer to State Regulations for storage and transport requirements. This

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material is a Scheduled Poison S6 and must be stored, maintained and used in accordance with the relevant regulations. Precautions for safe handling:

Avoid skin and eye contact and breathing in vapour. Keep out of reach of children.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well ventilated place and out of direct sunlight. Store away from foodstuffs. Store away from incompatible materials described in Section 10. Keep containers closed when not in use check regularly for leaks.

## 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 that air concentrations of components are controlled below quoted Workplace Exposure Standards. Vapour heavier than air - prevent concentration in hollows or sumps. DO NOT enter confined spaces where vapour may have collected. Keep containers closed when not in use.

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

**Personal protective equipment**

The selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors.

OVERALLS, SAFETY SHOES, SAFETY GLASSES, GLOVES, RESPIRATOR.

Wear overalls, safety glasses and impervious gloves. Use with adequate ventilation. If determined by a risk assessment an inhalation risk exists, wear an organic vapour respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.

## 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

a) Appearance	Form	liquid
	Colour	colourless
b) Odour	Odourless	
c) Odour Threshold	No data available.	
d) pH	6-8	

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

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## MONO ETHYLENE GLYCOL (MEG)

e) Melting point/freezing point	-11,5 °C
f) Initial boiling point and boiling range	198 °C at 1.013 hPa
g) Flash point	110 °C
h) Evaporation rate	No data available
i) Flammability (solid, gas)	No data available
j) Upper/lower flammability or explosive limits	No data available
k) Vapour pressure	0,08 (mm-Hg @ 20° C)
l) Vapour density	2,1 (Air:1)
m) Relative density	1,11 gr/ml
n) Water solubility	Complete
o) Partition coefficient: noctanol/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

No data available

## 10. Stability and reactivity

### 10.1 Reactivity

Reacts with strong oxidising agents.

### 10.2 Chemical stability

Stable under normal conditions of use.

### 10.3 Possibility of hazardous reactions

No data available

### 10.4 Conditions to avoid

Excessive heat will lead to accelerated oxidative degradation.

### 10.5 Incompatible materials

Incompatible with strong oxidising agents.

### 10.6 Hazardous decomposition products

Oxides of carbon.

## 11. Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Oral LD50 (rat): 4700 mg/kg

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

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### Skin corrosion/irritation

Mild irritant (rabbit).

### Serious eye damage/eye irritation

Mild irritant (rabbit).

### Respiratory or skin sensitisation

No data available.

### Germ cell mutagenicity

No data available.

### Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

### Reproductive toxicity

No data available.

### Specific target organ toxicity - single exposure

No data available.

### Specific target organ toxicity - repeated exposure

No data available.

### Aspiration hazard

No data available.

## 12. Ecological information

### 12.1 Toxicity

Avoid contaminating waterways.

### 12.2 Persistence and degradability

Expected to be readily biodegradable.

### 12.3 Bioaccumulative potential

This product shows a low bioaccumulation potential.

96hr LC50 (fish): >10,000 mg/L (marine water); 8050 mg/L (fresh water).

### 12.4 Mobility in soil

No data available.

### 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

### 12.6 Other adverse effects

No data available.

## 13. Disposal considerations

Refer to Waste Management Authority. Dispose of material through a licensed waste contractor.

Normally suitable for incineration by an approved agent. Dispose of as unused product.

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### 14. Transport information

#### Road and Rail Transport

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

#### Marine Transport

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; NON-DANGEROUS GOODS.

#### Air Transport

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air; NON-DANGEROUS GOODS.

### 15. Regulatory information

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

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

No data available

#### 15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

### 16. Other information

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

H302 Harmful if swallowed.

H373 May cause damage to organs through prolonged or repeated exposure.

#### Further information

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