

Safety Data Sheet

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Revision Date: 04.08.2022 Version 2

TEKKİM

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Catalog No. TK.010101.00000
Product Name Ethylene Glycol (MonoEthylene Glycol)
Cas no 107-21-1

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

1.2.1. Relevant identified uses

Industrial uses. Scientific research and development. Use as laboratory reagent.

1.2.2. Uses advised against

No information available.

1.3. Details of the supplier of the safety data sheet

Name TEKKİM KİMYA SAN. TİC. LTD. ŞTİ.
Street ORGANİZE SAN. BÖL. MAVİ CAD. 8. SOK. NO :1 NİLÜFER / BURSA
Telephone 0224 243 21 71
E-mail erhan@tekkim.com.tr
Company Representative Erhan DİLER

1.4 Emergency Telephone Number +90 506 990 36 86

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 (CLP)

Acute toxicity category 4, oral
Specific target organ toxicity (repeated exposure)
Full text of R-, H- and EUH-phrases: see section 16.

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 (CLP)

Hazard pictograms



Signal word (SEA)

WARNING

Hazard Statements (SEA)

H302 Harmful if swallowed.

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

Precautionary Statements (SEA)

Intervention

P314 Get medical advice/attention if you feel unwell.

SECTION 3: Composition/information on ingredients

Classification according to Regulation (EC) No. 1272/2008 (CLP)

3.1 Maddeler


EC No 203-473-3
Molar mass 62.07 g/mol
Cas No 107-21-1
Concentration (<= 100 %)

SECTION 4: First aid measures

4.1 Description of first aid measures



Tekkim is accredited to
ISO 9001:2015 and ISO 14001:2015

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General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Following inhalation

Remove casualty to fresh air and keep warm and at rest..

Following skin contact

Wash with plenty of water. Take off contaminated clothing.

Following eye contact

Rinse carefully and thoroughly with eye wash or water

Following ingestion

Please give up to two glasses of water. Get immediate medical attention.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling

4.3 Indication of any immediate medical attention and special treatment needed

Laxative : Sodium sulfate (1 tablespoon 250 ml of water.)

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water. Foam. Dry extinguishing powder. Carbon dioxide (CO2).

Unsuitable extinguishing media

There is no restriction for this item.

5.2 Special hazards arising from the substance or mixture

Flammable. Heavy vapors in the air at the ground surface may occur.. It can create explosive mixtures with air on intense heating. In case of fire hazardous combustion gases or vapors may occur..

5.3 Advice for firefighters

Special protective equipment for firefighters

Do not stay in dangerous zone without self-contained breathing apparatus. Keep a safe distance to cut off contact with skin and wear suitable protective clothing.

5.4 Additional information

Stop and contain spill/release if it can be done safely. If this cannot be done, allow fire to burn under control.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Don't breathe vapours, aerosols. Avoid substance contact. Keep away from head and source of ignition. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

6.2 Environmental precautions

Do not allow to enter into surface water or drains.

6.3 Methods and material for containment and cleaning up

Close drainage channels. Take up with liquid-absorbent material. Clean the affected area.

6.4 Reference to other sections

Disposal: see section 13.

6.5 Additional information

Clear spills immediately.

SECTION 7: Handling and Storage

7.1 Precautions for safe handling

Advices on safe handling

Observe label precautions.

Advices on general occupational hygiene


Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions



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Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end uses

There are no other specific uses other than those mentioned in section 1.2.

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ethanediol	(107-21-1)
TR MAK Acceptable maximum concentration (MAK)	200 mbp 740 mg / m ³
TR OEL Another time unless specified, 15 for a minute not to be exceeded upper limit of exposure value (STEL):	0 mbp 104 mg / m ³ Can be absorbed through the skin.
Skin description:	20 mbp 52 mg / m ³
Time-weighted average (TWA) measured or calculated for a specified reference period of 8 hours	

8.2 Exposure controls

Appropriate engineering controls

More attention should be paid to technical measures against the use of personal protective equipment.

Personal protection equipment

Eye/face protection

Safety glasses

Hand protection

Hand protection

Full contact

Glove material : Nitrile rubber

Glove thickness :0,11 mm

Break through time : >480 minute

Splash contact

Glove material : Nitrile rubber

Glove thickness :0,11 mm

Break through time : >480 minute

The protective gloves to be used must comply with the specifications of directive 89/686/EEC and the related standart EN374.

Other skin protection

Protective chlothing.

Respiratory protection

Required when vapors / aerosols are formed.


Recommended Filter Type: Filter A (according to DIN 3181)

SECTION 9: Physical and chemical Properties

9.1 Information on basic physical and chemical properties



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Physical state	Liquid
Colour	Colorless
Odour	Odorless
Odour threshold	Not applicable.
pH value	No information.
Melting point/freezing point	-13 °C
Freezing point	No information.
Initial boiling point and boiling range	197 °C
Flash point	111 °C
Evaporation rate	No information.
Flammability (solid, gas)	412 °C
Upper/lower flammability or explosive limits	3,2 %(V)
Upper/lower flammability or explosive limits	15,3 %(V)
Vapour pressure	1 hPa
Vapour density	2,14
Density	No information.
Relative density	1,113 g/cm ³
Water solubility (g/l)	Soluble.
Fat solubility (g/l)	No information.
Partition coefficient: n-octanol/water	log Pow: -1,36 - Bioaccumulation is not expected.
Auto-ignition temperature	No information.
Decomposition temperature	No information.
Viscosity	
Kinematic viscosity	No information.
Dynamic viscosity	No information.
Explosive properties	Not classified as explosive.
Oxidising properties	none

SECTION 10: Stability and Reactivity

10.1 Reactivity

Vapours may form explosive mixtures with air. Section 10.3 to see.

10.2 Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3 Possibility of hazardous reactions

There is a risk of explosion with:

Aluminum, perchloric acid

Risk of explosion or formation of flammable gases or vapors with:

chromyl chloride, Strong oxidizing agents, chlorates, Peroxides, potassium permanganate

Exothermic reaction with:

chlorosulfonic acid, Sodium hydroxide, fuming sulfuric acid, Sulfuric acid

10.4 Conditions to avoid

Powerful heating.

10.5 Incompatible materials

Various plastics.

10.6 Hazardous decomposition products


No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1 Information on toxicological effects



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Acute oral toxicity
LDLO human: 786 mg / kg

(RTECS)
Symptoms: Nausea, Vomiting

Acute inhalation toxicity
LC50 Rat:> 2.5 mg / l; 6 hrs; aerosol
(ECHA)

Acute dermal toxicity
LD50 Mouse:> 3,500 mg / kg
(ECHA)

Specific Target Organ Toxicity - Repeated exposure
May cause damage to organs through prolonged or repeated exposure.
Routes of exposure: If swallowed
Target Organs: Kidney

11.2 Additional information

After absorption:
agitation, CNS disturbances
Systemic effects:
After the secrecy period:
Fatigue, ataxia (impaired movement coordination), loss of consciousness
Other dangerous properties cannot be excluded.
Handle in accordance with good industrial hygiene and safety practice.

SECTION 12: Ecological information

12.1 Toxicity

12.2 Persistence and degradability

Biodegradation
one hundred %; 10 g; oxygenated (aerobic)
OECD Test Guideline 301A
It is easily soluble in nature by itself.

Biochemical Oxygen Demand (BOD)
780 mg / g (5 g)
(IUCLID)
Chemical Oxygen Demand (COD)
1.190 mg / g

(IUCLID)
Theoretical oxygen demand (ThOD)
1.290 mg / g

(IUCLID)
Ratio BOD / ThBOD
BOD5 60%
(IUCLID)

12.3 Bioaccumulative potential


Partition coefficient (n-octanol / water)
log Pow: -1.36
(experimental)
(Lit.) Bioaccumulation is not expected.

12.4 Mobility in soil

No information available.



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12.5 Results of PBT and vPvB assessment

Substance does not meet the criteria for PBT or vPvB.

12.6 Other adverse effects



Discharge into environment must be avoided.

SECTION 13: Disposal considerations

Waste treatment methods

It must be disposed of in accordance with national and local regulations. Do not mix with other products. Uncleaned Treat packages as if it were the product itself ... Waste materials must be disposed of in accordance with national and local regulations.

SECTION 14: Transport information

ADR	IMDG	IATA	ADN	RID
14.1 UN number				
--	--	--	--	--
14.2 UN proper shipping name				
It is not classified as dangerous goods.	It is not classified as dangerous goods.	It is not classified as dangerous goods.	It is not classified as dangerous goods.	It is not classified as dangerous goods.
14.3 Transport hazard class(es)				
--	--	--	--	--
				
14.4 Packing group				
--	--	--	--	--
14.5 Environmental hazards				
NO	NO	NO	NO	NO
No information available.	No information available.	No information available.	No information available.	No information available.

14.6 Special Precautions for User:

No information available.

SECTION 15: Regulatory information

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

This product safety data sheet complies with the requirements of EU Regulation 1907/2006.

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been conducted for this substance.

SECTION 16: Other informations


Full text of H statements

H302 Harmful if swallowed.

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



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Person Who Prepared the Safety Data Sheet:

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