

Safety Data Sheet

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



Revision date 31.10.2019

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Version 2

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

1.1 Product identifier

1.2 Relevant identified uses of the substance or mixture and uses advised against TK.010101

Generic name Ethylene Glycol (MonoEthylene Glycol) Extra pure

REACH No.

CAS No. 107-21-1

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

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

Use of the substance / mixture Anti-freeze and de-icing products.

Uses advised against

Details of the supplier of the safety data sheet

Name TEKKİM KİMYA SAN. T.C. LTD. T

Street ORGANİZE SAN. BÖL. MAVİ CAD. 8. SOK. NO : NİLÜFER / BURSA

Telephone 0224 243 21 71

E-mail tekkim@tekkim.com.tr

Company Representative Gökhan ÖZKAN

Emergency Telephone Number 0553 209 14 16 - 0553 209 14 18

SECTION 2: Hazards identification

Classification of the substance or mixture

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

Acute Tox. 4

Full text of R-, H- and EUH-phrases: see section 16.

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Article No (user)

TK.010101

Generic name

MONO ETHYLENE GLYCOL

2.2 Label elements

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

Hazard pictograms



Signal word

Warning

Hazard Statements

H302 Harmful if swallowed.

Precautionary Statements

Prevention

Response

Storage

2.3 Other hazards

SECTION 3: Composition/information on ingredients

Substances

Formula

C₂H₆O₂

EC No.

203-473-3

Molar mass

62,07 g/mol

Characteristic

CAS No

EC No

Concentration

Classification

Monoethylene glycol

107-21-1

203-473-3

100 %

;34:H302 Harmful if swallowed.

Full text of R-, H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

Description of first aid measures

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

Subsequently wash off with..

Following eye contact

In case of contact with eyes, rinse immediately thoroughly with plenty of edible oil and consult an ophthalmologist..

Following ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention..

Most important symptoms and effects, both acute and delayed

Dizziness. Nausea.

Indication of any immediate medical attention and special treatment needed

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No information available..

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

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

Unsuitable extinguishing media

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

Keep a safe distance to cut off contact with skin and wear suitable protective clothing.

5.4 Additional information

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

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

6.3 Methods and material for containment and cleaning up

Clean contaminated objects and areas thoroughly observing environmental regulations..

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

Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.

Measures to prevent fire

Advices on general occupational hygiene

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7.2 Conditions for safe storage, including any incompatibilities

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Technical measures and storage conditions

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7.3 Specific end uses

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SECTION 8: Exposure controls / personal protection

8.1 Control parameters

No information

8.2 Exposure controls

Appropriate engineering controls

Fresh air (open windows and doors) is necessary..

Personal protection equipment

Eye/face protection

Safety glasses

Hand protection

Full contact :

Glove materials : Nitrile rubber
Glove thickness : 0,11 mm
Break through time : > 480 minute

Splash contact:

Glove materials : 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 standard EN374

Other skin protection

Protective clothing

Respiratory protection

Required when vapours are generated

Recommended filter type : E-(P2)

Environmental exposure controls

SECTION 9: Physical and chemical Properties

Information on basic physical and chemical properties

Physical state	Liquid
Colour	transparent
Odour	odourless
Odour threshold	Not applicable
pH value	6-8 20 g/l
Melting point/freezing point	-13

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Freezing point	Not information
Initial boiling point and boiling range	195-198 C
Flash point	111
Evaporation rate	Not information
Flammability (solid, gas)	Not information °C
Upper/lower flammability or explosive limits	3,2 % V
Upper/lower flammability or explosive limits	15,3 % V
Vapour pressure	0,053 hPa 20 C de
Vapour density	Not information
Density	1,11 g/cm3
Relative density	2,14
Water solubility (g/l)	Soluble °C
Fat solubility (g/l)	°C
Partition coefficient: n-octanol/water	logPOW :-1,36 Bioaccumulation is not expected
Auto-ignition temperature	Not information
Decomposition temperature	Not information

Viscosity

Kinematic viscosity	Not information
Dynamic viscosity	Not information
Explosive properties	Not classified as explosive
Oxidising properties	

SECTION 10: Stability and Reactivity

10.1 Reactivity

Vapours may form explosive mixtures with air.

10.2 Chemical stability

The substance is chemically stable under recommended conditions of storage, use and temperature..

10.3 Possibility of hazardous reactions

No information

10.4 Conditions to avoid

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10.5 Incompatible materials

Rubber, various plastics.

10.6 Hazardous decomposition products

No known hazardous decomposition products..

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity
LD50 rat >2000 mg/kg
LDLO human 786 mg/kg

Symptoms : nausea , vomiting

Acute inhalation toxicity :
Not information

Acute dermal toxicity
Absorption

Skin irritation :
Rabbit : Slight irritation

Eye irritation :
Rabbit : Slight irritation

Carcinogenicity :
Not information.

11.2 Additional information

Not information

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish
LC50 Sun fish : >18500 mg/l 96 h

(Foreign sourced information.)

12.2 Persistence and degradability

Self readily biodegradable

12.3 Bioaccumulative potential

Partition coefficient (n-octanol/water)
logPOW: -1,36
Bioaccumulation is not expected

12.4 Mobility in soil

No information

12.5 Results of PBT and vPvB assessment

Substance does not meet the criteria for PBT and vPvB

12.6 Other adverse effects

Discharge into the 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. It was to proceed as their products uncleaned packaging.

SECTION 14: Transport information

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Land transport (ADR/RID)

UN number No dangerous good

UN proper shipping name

Transport hazard class(es)

Packing group

Environmental hazards

Special precautions for

Tunnel restriction code

Inland waterway transport (ADN)

Limited quantity (LQ)

Special Provisions

Category

Air transport (ICAO-TI / IATA-DGR)

UN number No dangerous good

UN proper shipping name

Transport hazard class(es)

Packing group

Environmental hazards

Special precautions for

Sea transport (IMDG)

UN number No dangerous good

UN proper shipping name

Transport hazard class(es)

Packing group

Environmental hazards

Special precautions for

SECTION 15: Regulatory information

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

No information

Chemical Safety Assessment

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SECTION 16: Other information

Relevant R-, H- and EUH-phrases (Number and full text)

H302 Harmful if swallowed.

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Prepared the Document

Name Surname : Gökhan ÖZKAN
Contact Info : 0553 209 14 18
Email Address : gokhan@tekkim.com.tr
Certificate Number: 01.52.05

TEKKİM