

Safety Data Sheet

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

Revision Date: 15.08.2022 Version 2

TEKKİM

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

1.1 Product identifier

Catalog No. TK.200781.00000
Product Name Ethylene Glycol monobutyl ether
Cas no 111-76-2

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

1.2.1. Relevant identified uses

Industrial use. Use as a 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
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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, Oral, Category 4
Acute toxicity, By inhalation, Category 4
Acute toxicity, Dermal, Category 3
Skin irritation, Category 2
Eye irritation, Category 2

For the full text of the H and EUH statements referred to in this section, see section 16.

2.2 Label elements

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

Hazard pictograms



Signal word (SEA)

DANGER

Hazard Statements (SEA)

H302 + H332 Harmful if swallowed or if inhaled.

H311 Toxic in contact with skin.


H315 Causes skin irritation.

H319 Causes serious eye irritation.

Precautionary Statements (SEA)



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Prevention

- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Intervention

- P301+P312 IF SWALLOWED: Call 114 POISON CENTER or doctor/physician if you feel unwell.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P304+P340 IF INHALED: Move victim to fresh air and keep in a position comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if fitted and easy to do. Continue rinsing.

SECTION 3: Composition/information on ingredients

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

3.1 Maddeler

EC No	203-905-0
Molar mass	118.17 g/mol
Cas No	111-76-2
Concentration	(<= 100 %)

SECTION 4: First aid measures

4.1 Description of first aid measures

<i>General information</i>	In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).
<i>Following inhalation</i>	Remove to fresh air. Call a doctor. If breathing stops: apply mechanical respiration immediately, with oxygen if necessary.
<i>Following skin contact</i>	Wash with plenty of water. Take off contaminated clothing.
<i>Following eye contact</i>	In case of contact with eyes, rinse eyelids with water for 10-15 minutes. See a doctor immediately.
<i>Following ingestion</i>	After swallowing: caution if victim vomits. Risk of aspiration! Keep airways free. Pulmonary failure possible after aspiration of vomit. Call a physician immediately.

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

No information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

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-than-air vapors may form on the floor surface. Forms explosive mixtures with air at intense temperatures. In case of fire, dangerous flammable gases or vapors may develop.

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



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

Advices on general occupational hygiene

Change contaminated clothing. Wash hands after working with substance. It is recommended to use a skin protection cream.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Do not use light weight metal containers. Protect from light. Keep container tightly closed in dry and well-ventilated places.

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

Butyl Glycol (111-76-2)

EN OEL	8-hour fixed for reference time measured or calculated time weighted average (TWA):	20 ppm 98 mg/m ³
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	another time unless specified, 15 for a minute not to be exceeded exposure upper limit value (STEL):	50 ppm 246 mg/m ³
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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



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Hand protection

in full contact

Glove material : Butyl rubber

Glove thickness: 0.70 mm

Absorption time: > 480 minutes

In contact with splash

Glove material : Nitrile rubber

Glove thickness: 0.40 mm

Absorption time: > 120 minutes

The gloves to be used must comply with the specifications of EC directive 89/686/EEC and the resulting standard EN374.

Other skin protection

Protective clothing.

Respiratory protection

Required when vapors are generated.

Recommended Filter type: Filter A (according to DIN 3181), for vapors of organic compounds.

SECTION 9: Physical and chemical Properties

9.1 Information on basic physical and chemical properties

Physical state	Liquid
Colour	Transparent
Odour	like ether
Odour threshold	0.1 ppm
pH value	7 20 °C
Melting point/freezing point	-75 °C
Freezing point	No information.
Initial boiling point and boiling range	171 °C
Flash point	67 °C
Evaporation rate	No information.
Flammability (solid, gas)	230 °C
Upper/lower flammability or explosive limits	1.1 %(V)
Upper/lower flammability or explosive limits	12.7 %(V)
Vapour pressure	No information.
Vapour density	4.08
Density	0.902 g/cm ³ 20 °C
Relative density	No information.
Water solubility (g/l)	No information.
Fat solubility (g/l)	No information.
Partition coefficient: n-octanol/water	log Pow : 0.81 (at 25 °C) Bioaccumulation is not expected.(ECHA)
Auto-ignition temperature	No information.
Decomposition temperature	It can be distilled without decomposition at normal pressure.

Viscosity

Kinematic viscosity	3,642 mm ² /s 20 °C
Dynamic viscosity	3.6 mPa.s 20 °C
Explosive properties	Not classified as explosive.
Oxidising properties	none


SECTION 10: Stability and Reactivity

10.1 Reactivity

Forms explosive mixtures with air at intense temperatures.



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10.2 Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3 Possibility of hazardous reactions

No information available.

10.4 Conditions to avoid

Powerful heating.

10.5 Incompatible materials

Strong oxidizing agents.

10.6 Hazardous decomposition products

Peroxides.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity

LD50 Oral - Guinea pig - male and female - 1.414 mg/kg (OECD Test Guideline 401)

Acute inhalation toxicity

Estimated acute toxicity Inhalation - 11.1 mg/l (Expert decision)

LC50 Inhalation - Guinea pig - 633 ppm

LD50 Dermal - Guinea pig - male and female - > 2.000 mg/kg (OECD Test Guideline 402)

Skin irritation

Skin - Rabbit

Result: Irritating to skin. - 4 h (ECHA)

Serious eye damage/eye irritation

Eyes - Rabbit

Result: Irritating to eyes. - 24h (OECD Test Guideline 405)

11.2 Additional information

In case of exposure, it causes narcosis, kidney and liver damage.

If swallowed, it causes a burning sensation and tongue numbness, which means paralysis of sensory nerve endings.

Central nervous system depression, headache, narcosis.

Handle in accordance with safety and hygiene rules.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish

LC50 rainbow trout:>1.474 mg/l 96 hours (OECD Test Guideline 203)

Toxicity to daphnia and other aquatic invertebrates

EC50 Daphnia :> 1.550 mg/l - 48 h (OECD Test Guideline 202)

Toxicity to algae (algae)


ErC50 green algae :> 1.840 mg/l - 72 h (OECD Test Guideline 201)

Toxicity to bacteria

static test - Pseudomonas putida - 700 mg/l - 16 h



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12.2 Persistence and degradability

Biodegradability
oxygenated (aerobic) - Exposure time 28 d
Result: 90.4% - Easily degradable.
(OECD Test Guideline 301 B)

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

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				
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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



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

SECTION 16: Other informations

Full text of H statements

H302 + H332 Harmful if swallowed or if inhaled.

H311 Toxic in contact with skin.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

Person Who Prepared the Safety Data Sheet:

Name:

Erhan DİLER

Certificate Number and Date:


11.29.03 & 11 Şubat 2020

Communication information:

05069903686



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