

Ethylene Glycol Monobutyl Ether Safety Data Sheet

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Version: #1

SECTION 1: Identification			
1.1. Identification			
Product name	: Ethylene Glycol Monobutyl Ether		
Product form	: Substance		
EC number	: 203-905-0		
CAS-No.	: 111-76-2		
Formula	: C ₆ H ₁₄ O ₂		
1.2. Relevant identified uses of th	e substance or mixture and uses advised against		
Identified uses	: Chemical for synthesis.		
1.3. Supplier			
FARSA Group Ltd			
Sales@farsagroup.az			
1.4. Emergency contacts			
Emergency number	: +994512707856		
SECTION 2: Hazard(s) identification	ation		
2.1. Classification of the substand			
Classification according to Regulation	(EC) No 1272/2008 (CLP)		
Acute toxicity, oral	: Category 4, H302		
Acute toxicity, inhalation	: Category 3, H331		
Skin irritation	: Category 2, H315		
Eye irritation	: Category 2, H319		
For the full text of the H-Statements menti	oned in this Section, see Section 16.		
2.2. Label elements			
Pictogram	. Asia		
liotogram	. Cart		
Signal word	: Danger		
Hazard statements	: H302 Harmful if swallowed.		
	H315 Causes skin irritation.		
	H319 Causes serious eye irritation.		
	H331 Toxic if inhaled.		
Precautionary statements	: P261 Avoid breathing mist or vapors.		
	P264 Wash skin thoroughly after handling.		
	P301 + P312 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. P302 + P352 IF ON SKIN: Wash with plenty of water.		
	P304 + P340 + P311 IF INHALED: Remove person to fresh air and keep comfortable for		
	P304 + P340 + P311 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor.		

2.3. Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information

: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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Toxicological information

: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1. **Substances**

2-butoxyethanol			
Identification	Classification	Concentration	
CAS No: 111-76-2	Acute Tox. 4; Acute Tox.3; Skin Irrit. 2; Eye Irrit.2; H302, H331,	<= 100 %	
EC No: 203-905-0	H315, H319		
	Acute oral toxicity: 1.200mg/kg		
	Acute inhalation toxicity(vapor): 3 mg/l		

SECTION 4: First-aid measures	
4.1. Description of first aid measures	
General notes	First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.
Following inhalation	: Fresh air. Immediately call-in physician. If breathing stops: immediately apply artificial respiration, if necessary, also oxygen.
Following skin contact	 Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.
Following eye contact	 After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.
Following ingestion	: 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 effe	cts, both acute and delayed
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The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11. Indication of any immediate medical attention and special treatment needed 4.3.

No data available.

SECTION 5: Firefighting measu	res
5.1. Extinguishing media Suitable extinguishing media Unsuitable extinguishing media	 Carbon dioxide (CO2) Foam Dry powder. For this substance/mixture no limitations of extinguishing agents are given.
5.2. Special hazards arising from t	the substance or mixture
Carbon oxides. Combustible. Vapors are beavier than air and may sprea	ad along floors

Forms explosive mixtures with air on intense heating.

Development of hazardous combustion gases or vapours possible in the event of fire.

5.3. Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures 6.1.

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from he at and sources of ignition.

Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

6.2. **Environmental precautions**

Do not let product enter drains.

6.3. Methods and materials for containment and cleaning up Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully with liquid-absorbent material. Dispose of properly. Clean up affected area.

6.4. **Reference to other section**

For disposal see section 13.

SECTION 7: Handling and storage

Precautions for safe handling 7.1.

Advice on safe handling

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

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Advice on protection against fire and explosion Hygiene measurers	 Keep away from open flames, hot surfaces and sources of ignition Take precautionary measures against static discharge. Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance. For precautions see section 2.2.
7.2. Conditions for safe storage, includ	ing any incompatibilities
Storage conditions Storage class	 Do not use light-weight-metal containers. Protected from light. Tightly closed. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons. Recommended storage temperature sees product label. Storage class (TRGS 510): 6.1C: Combustible, acute toxic Cat.3 / toxic compounds or compounds which causing chronic effects
7.3. Specific end use(s)	

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1. **Control parameters**

Ingredients with workplace control parameters

Derived No Effect Level (DNEL)

Application Area	Routes of exposure	Health effect	Value
Worker DNEL, long term	dermal	Systemic effects	
Worker DNEL, long term	inhalation	Systemic effects	98 mg/m3
Consumer DNEL, long term	dermal	Systemic effects	
Consumer DNEL, long term	oral	Systemic effects	
Consumer DNEL, acute	inhalation	Local effects	123 mg/m3
Consumer DNEL, long term	inhalation	Systemic effects	49 mg/m3

8.2. Exposure controls	
Eye/face protection	 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses.
Skin protection	 This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves.
Body protection	: Protective clothing
Respiratory protection	 Recommended Filter type: Filter A (acc. to DIN 3181) for vapours of organic compounds The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.
Control of environmental exposure	: Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Liquid		Kinematic viscosity	3,642 mm2/s at 20 °C
Colour	Colourless	Dynamic viscosity	3,6 mPa.s at 20 °C
Odour	Ether-like, mild, sweet	Water solubility	No data available
рН	7 at 20 °C	Partition coefficient n-octanol/water	log Pow: 0,81 at 25 °C
Melting point/range	-75 °C	Vapour pressure	No data available
Initial boiling point/range	173,5 °C at 1.013 hPa - (ECHA)	Density	0,90 g/cm3 at 20 °C
Flammability	No data available	Relative density	No data available
Upper explosion limit	12.7 %(V)	Relative vapor density	No data available
Lower explosion limit	1.1 %(V)	Particle characteristic	No data available
Flash point	67 °C	Explosive properties	No data available
Autoignition temperature	230 °C at 1.013,25 hPa	Oxidizing properties	None
Decomposition temperature	Distillable in an undecomposed		
	state at normal pressure.	-	-

Other information 9.2. Surface tension

: 65,03 mN/m at 2g/l at 20 °C

SECTION 10: Stability and reactivity

10.1. Reactivity

Forms explosive mixtures with air on intense heating.

A range from approx. 15 Kelvin below the flash point is to be rated as critical.

10.2. **Chemical stability**

The product is chemically stable under standard ambient conditions (room temperature).

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10.3.	Possibility of hazardous reaction
	reactions possible with: Strong oxidizing agents
Generat	es dangerous gases or fumes in contact with: Aluminum
10.4.	Conditions to avoid
Strong h	neating.
10.5.	Incompatible materials
No data	available.
10.6.	Hazardous decomposition products
Peroxid	es
In the ev	vent of fire: see section 5.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 Classification according to GHS (1272/2008/EC, CLP)

	Acute toxicity				
	Exposure route	Endpoint	Value	Species	Source
	Oral	LD50	1.414 mg/kg	Guinea pig	ECHA
Seriou Respi Germ Carciu Repro STOT STOT Aspira	corrosion/irritation us eye damage/eye irritati ratory or skin sensitisatio cell mutagenicity nogenicity ductive toxicity - single exposure - repeated exposure ation hazard	on : Causes in : Shall no : Shall no	ot be classified as ge ot be classified as ca posure may cause re ot be classified as a s ot be classified as a s	espiratory or skin sensitiser. rm cell mutagenic.	le exposure).
11.2.	Endocrine disrupting	properties			
Not list	ed.				
11.3.	Information on other h	nazards			

There is no additional information.

SECTION 12: Ecological information

12.1. Toxicity

Shall not be classified as hazardous to the aquatic environment.

Aquatic toxicity (acute)					
Endpoint	Value	Species	Source	Exposure time	
LC50	1.474 mg/l	fish	ECHA	96 h	
EC50	1.550 mg/l	aquatic invertebrates	ECHA	48 h	
ErC50	1.840 mg/	algae	ECHA	72 h	
	Aquatic toxicity (chronic)				
Endpoint	Value	Species	Source	Exposure time	
EC50	297 mg/l	aquatic invertebrates	ECHA	21 d	

Biodegradation

: The substance is readily biodegradable.

12.2. Persistence and degradability

Aerobic - Exposure time 28 d

Result: 90,4 % - Readily biodegradable.

12.3. Bioaccumulative potential

Data are not available.

12.4. Mobility in soil

Data are not available.

12.5. Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECT	SECTION 13: Disposal considerations		
13.1.	13.1. Waste treatment methods		
No data available.			
SECTION 14: Transport information			

14.1. **UN number** ADR/RID : 2810 IMDG : 2810 16/02/2024 EN (English) 4/5

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ΙΑΤΑ	: 2810	
14.2. UN proper shipping name		
ADR/RID IMDG IATA	 TOXIC LIQUID, ORGANIC, N.O.S. (2-butoxyethanol) TOXIC LIQUID, ORGANIC, N.O.S. (2-butoxyethanol) Toxic liquid, organic, n.o.s. (2-butoxyethanol) 	
14.3. Transport hazard class(es)		
ADR/RID IMDG IATA	: 6.1 : 6.1 : 6.1	
14.4. Packing group		
ADR/RID IMDG IATA	: III : III : III	
14.5. Environmental hazards		
ADR/RID IMDG Marine pollutant IATA	: No. : No. : No.	
14.6. Special precautions for user		
Tunnel restriction code	: (E)	
SECTION 15: Regulatory information		
	regulations/legislation specific for the substance or mixture th the requirements of Regulation (EC) No. 1907/2006.	

Authorizations and/or restrictions on use

	al legislation egulations	 Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. H2 ACUTE TOXIC Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable. Take note of Dir 94/33/EC on the protection of young people at work.
15.2.	Chemical safety assessment	

A Chemical Safety Assessment has been carried out for this substance.

SECTION 16: Other information

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

H302 Harmful if swallowed. H315 Causes skin irritation. H319 Harmful if swallowed.

H331 Causes skin irritation.

Disclaimer:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text