



Safety Data Sheet

Butyl Glycol

Revision Date 08.02.2021

Version 1.03

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

Trade name	Butyl Glycol
Synonyms	Butyl glycol ether
Use	Solvent, Paint related material

2. Hazards identification

Identification of the risks

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
R36/38 Irritating to eyes and skin.

3. Composition/information on ingredients

2-Butoxyethanol; Ethylene glycol monobutyl ether butyl cellosolve

Contents: 99.9 %W/W

CAS-No. 111-76-2

Index-No. 603-014-00-0

EC-No. 203-905-0

Symbol(s) Xn

R-phrase(s) -R20/21/22 -R36/38

For the full text of the R-phrases mentioned in this Section, see Section 16.

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4. First aid measures

General advice	<i>If you feel unwell, seek medical advice (show the label where possible).</i>
Inhalation	<i>Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. Call a physician immediately.</i>
Skin contact	<i>Wash off immediately with plenty of water for at least 15 minutes. Call a physician immediately.</i>
Eye contact	<i>Rinse immediately with plenty of running water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Call a physician immediately.</i>
Ingestion	<i>If swallowed, seek medical advice immediately and show this container or label. Prevent vomiting if possible. If a person vomits when lying on his back, place him in the recovery position. Never give anything by mouth to an unconscious person.</i>

5. Firefighting measures

Suitable extinguishing media	<i>Water spray, Dry powder, Foam</i>
Specific hazards during firefighting	<i>Do not allow run-off from fire fighting to enter drains or water courses.</i>
Special protective equipment for firefighters	<i>Wear self-contained breathing apparatus and protective suit.</i>
Further information	<i>Standard procedure for chemical fires. In the event of fire, cool tanks with water spray.</i>

6. Accidental release measures

Personal precautions	<i>Use personal protective equipment. Do not breathe vapours or spray mist. Ensure adequate ventilation. Keep away from sources of ignition - No smoking.</i>
Environmental precautions	<i>Avoid subsoil penetration. Do not flush into surface water or sanitary sewer system.</i>
Methods for cleaning up	<i>Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). The material taken up must be disposed of in accordance with regulations.</i>

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7. Handling and storage

Handling

Safe handling advice Wear personal protective equipment. Avoid contact with skin and eyes. Keep away from sources of ignition - No smoking.

Advice on protection against fire and explosion Use explosion-proof equipment. Provide sufficient air exchange and/or exhaust in work rooms. Keep away from open flames, hot surfaces and sources of ignition.

Storage

Requirements for storage areas and containers Keep containers tightly closed in a cool, well-ventilated place. Keep away from sources of ignition - No smoking.

8. Exposure controls/personal protection

Components with workplace control parameters

NATIONAL OCCUPATIONAL EXPOSURE LIMITS

Components	Type	Control parameters	Update	Basis
2-BUTOXYETHANOL	TWA	98 mg/m ³	12 2009	Exposure Limit Values
	TWA	20 ppm	12 2009	Exposure Limit Values
	STEL	246 mg/m ³	12 2009	Exposure Limit Values
	STEL	50 ppm	12 2009	Exposure Limit Values

Engineering measures

Provide sufficient air exchange and/or exhaust in work rooms.

Personal protective equipment

Hand protection Gloves suitable for permanent contact:

Material: butyl-rubber

Break through time: 4 h

Material thickness: 0.5 mm

Eye protection Safety glasses with side-shields

Skin and body protection Protective suit, Safety shoes

Hygiene measures Wash hands before breaks and immediately after handling the product.

Protective measures Wear suitable protective equipment.

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9. Physical and chemical properties

Form	Liquid
State of matter	Liquid
Colour	Colourless
Odour	Pleasant Sweet
pH	7; Neutral
Melting point/range	-70.4 °C
Boiling point/boiling range	170.8 °C
Flash point	62 °C; Closed cup
Autoignition temperature	ca. 238 °C
Lower explosion limit	1.1 %(V)
Upper explosion limit	12.7 %(V)
Density	0.899 - 0.901 g/cm ³ ; 20 °C
Water solubility	Completely soluble
Solubility in other solvents	Medium: Methanol; Completely soluble
Viscosity, dynamic	6.4 mPa.s
Relative vapour density	4.1

10. Stability and reactivity

Materials to avoid	Oxidizing agents, Reducing agents, Acids and bases
Hazardous decomposition products	No decomposition if stored normally.

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11. Toxicological information

Acute oral toxicity	LD50 rat: 470 mg/kg; literature value LD50 rabbit: 300 mg/kg; literature value
Acute inhalation toxicity	LC50 rat: 450 mg/l; ; 4 h; literature value LCLo rat: 18,000 mg/m ³ ; ; 7 h; literature value
Acute dermal toxicity	LD50 rabbit: 220 mg/kg; literature value

12. Ecological information

Ecotoxicity effects

Toxicity to fish	LC50 <i>Poecilia reticulata</i> : 983 mg/l; 7 d; literature value LC50 <i>Lepomis macrochirus</i> (Bluegill sunfish): 1,490 mg/l; 96 h; literature value LC50 <i>Pimephales promelas</i> : 2,137 mg/l; 96 h; literature value <i>Oncorhynchus mykiss</i> (rainbow trout): > 1,000 mg/l; 96 h; literature value
Toxicity to daphnia and other aquatic invertebrates.	<i>Daphnia magna</i> : 1,720 mg/l; 24 h; literature value

13. Disposal considerations

Product	In accordance with local and national regulations.
Contaminated packaging	Packaging that cannot be cleaned must be disposed of in the same way as the material itself.

14. Transport information

ADR	UN number: 2810; Class: 6.1; Packaging group: III; T1; Description of the goods: TOXIC LIQUID, ORGANIC, N.O.S.
RID	UN number: 2810; Class: 6.1; Packaging group: III; T1; Description of the goods: TOXIC LIQUID, ORGANIC, N.O.S.
ADNR	UN number: 2810; Class: 6.1; Packaging group: III; T1; Description of the goods: TOXIC LIQUID, ORGANIC, N.O.S.
IMDG	UN number: 2810; Class: 6.1; EmS: F-A, S-A; Packaging group: III; Description of the goods: TOXIC LIQUID, ORGANIC, N.O.S.
ICAO/IATA	UN number : 2810; Class: 6.1; Packaging group: III; Description of the goods: Toxic liquid, organic, n.o.s.

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15. Regulatory information

Labelling



Regulatory base

67/548/EEC

Symbol(s)

Xn: Harmful

R-phrase(s)

R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.
R36/38: Irritating to eyes and skin.

S-phrase(s)

S36/37: Wear suitable protective clothing and gloves.
S46: If swallowed, seek medical advice immediately and show this container or label.

Hazardous components which must be listed on the label

2-Butoxyethanol; Ethylene glycol monobutyl ether butyl cellosolve

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16. Other information

Full text of R-phrases referred to under sections 2 and 3

R20/21/22

Harmful by inhalation, in contact with skin and if swallowed.

R36/38

Irritating to eyes and skin.

All reasonable efforts were exercised to compile this SDS in accordance with ISO 11014 and ANSIZ400.1.1993. The SDS provides information regarding the health, safety and environmental hazards, at the date of issue, to facilitate the safe receipt, use and handling of the product in the workplace. its subsidiaries cannot anticipate or control all conditions under which the product may be handled, used and received in the workplace, it remains the obligation of each user, receiver or handler to, prior to usage, review this SDS in the context within which the product will be received, handled or used in the workplace. The user, handler or receiver must ensure that the necessary mitigating measures are in place as regards health and safety. This does not substitute the need or requirement for any relevant risk assessments to be conducted. It further remains the responsibility of the receiver, handler or user to communicate such information to all relevant parties that may be involved in the receipt, use or handling of the product.

Although all reasonable efforts were exercised in the compilation of this SDS, This does not expressly warrant the accuracy or assume any liability for the incompleteness of the information contained herein or any advice given. The product is sold and risk passes in accordance with the specific terms and conditions of sale.