



Safety Data Sheet

Butyl Glycol Ether

Version 1.01

Revision Date 03.04.2018

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

Product identifier

Trade name

Butyl Glycol Ether

Synonyms

Butyl Cellosolve; Ethylene Glycol Monobutyl Ether

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

Use

Industrial use.

Manufacturer or supplier's details

Company

Sasol Chemicals, a division of Sasol South Africa (Pty) Ltd

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SECTION 2. Hazards identification

Classification of the substance or mixture

South Africa. GHS Classification and Labelling of Chemicals - SANS 10234

Classification

Acute oral toxicity	Category 4
Skin corrosion/irritation	Category 2
Eye damage/irritation	Category 2
Acute inhalation toxicity	Category 4
Acute dermal toxicity	Category 4

Label elements

South Africa. GHS Classification and Labelling of Chemicals - SANS 10234

Pictogram



Signal word

Warning

Hazard statements

H302: Harmful if swallowed.
 H315: Causes skin irritation.
 H319: Causes serious eye irritation.
 H332: Harmful if inhaled.
 H312: Harmful in contact with skin.

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Precautionary statements

Prevention	<p>P264: Wash the contact area thoroughly after handling.</p> <p>P270: Do not eat, drink or smoke when using this product.</p> <p>P280: Wear protective gloves/ eye protection/ face protection.</p> <p>P261: Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.</p> <p>P271: Use only outdoors or in a well-ventilated area.</p>
Response	<p>P301 + P312: IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.</p> <p>P330: Rinse mouth.</p> <p>P302 + P352: IF ON SKIN: Wash with plenty of soap and water.</p> <p>P332 + P313: If skin irritation occurs: Get medical advice/ attention.</p> <p>P362: Take off contaminated clothing and wash before reuse.</p> <p>P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.</p> <p>P312: Call a POISON CENTER or doctor/ physician if you feel unwell.</p>
Storage	No precautionary statement
Disposal	P501 Dispose of contents/container to an approved facility in accordance with local, regional, national and international regulations.
Other hazards	Harmful Harmful if inhaled. Prolonged or repeated skin contact with liquid may cause defatting resulting in drying, redness and possible blistering. Irritating to skin Causes eye irritation. Aspiration hazard if swallowed - can enter lungs and cause damage.

SECTION 3. Composition/information on ingredients

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Substance

2-Butoxyethanol; Ethylene glycol monobutyl ether butyl cellosolve

Contents: 100.00 %W/W

CAS-No. 111-76-2

Index-No. 603-014-00-0

EC-No. 203-905-0

Hazard statements *H302 H315 H319 H332 H312*

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4. First aid measures

Description of necessary first-aid measures

Inhalation	Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. Call a physician immediately.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before re-use. If skin irritation persists, call a physician.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Ingestion	If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

Most important symptoms/effects, acute and delayed

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Refer to SECTION 11

SECTION 5. Firefighting measures

Suitable extinguishing media	Water spray. Alcohol-resistant foam. Dry chemical. Carbon dioxide (CO ₂).
Special hazards arising from the substance or mixture	Flash back possible over considerable distance.
Special protective equipment for firefighters	Wear self-contained breathing apparatus and protective suit.

SECTION 6. Accidental release measures

Personal precautions	Keep people away from and upwind of spill/leak. Remove all sources of ignition. Do not breathe vapours or spray mist. Material can create slippery conditions.
Environmental precautions	Should not be released into the environment. Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Soak up with inert absorbent material and dispose of as hazardous waste.
Reference to other sections	Refer to Section 8 and 13

SECTION 7. Handling and storage

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Safe handling advice	Provide sufficient air exchange and/or exhaust in work rooms. Wear personal protective equipment. Ensure all equipment is electrically grounded before beginning transfer operations. Take precautionary measures against static discharges.
Advice on protection against fire and explosion	Use explosion-proof equipment.
Requirements for storage areas and containers	Keep containers tightly closed in a dry, cool and well-ventilated place.
Advice on common storage	No data available

SECTION 8. Exposure controls/personal protection

Components with workplace control parameters

NATIONAL OCCUPATIONAL EXPOSURE LIMITS

Components	Type	Control parameters	Update	Basis
2-BUTOXYETHANOL	TWA	120 mg/m3	1995	South Africa Control Limits
2-BUTOXYETHANOL	TWA	25 ppm	1995	South Africa Control Limits
ETHYLENE GLYCOL	TWA	120 mg/m3	1995	South Africa RELs
MONOBUTYL ETHER	TWA	25 ppm	1995	South Africa RELs
ETHYLENE GLYCOL				
MONOBUTYL ETHER				

Exposure controls

Engineering measures

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

Personal protective equipment

Respiratory protection	In case of insufficient ventilation, wear suitable respiratory 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.

SECTION 9. Physical and chemical properties

Information on basic physical and chemical properties

Form	Liquid
State of matter	Liquid; at 20 ° C; 1,013 hPa
Colour	Colourless
Odour	Pleasant Sweet,
Odour Threshold	No data available
pH	7; Neutral

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Melting point/range	-75 ° C
Boiling point/boiling range	171 ° C
Flash point	67 ° C; closed cup
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Auto-ignition temperature	ca. 230 ° C
Lower explosion limit	1.1 %(V)
Upper explosion limit	10.6 %(V)
Vapour pressure	1 hPa; 20 ° C
Relative vapour density	4.1
Density	0.955 g/cm ³ ; 20 ° C
Water solubility	Completely soluble
Partition coefficient: n-octanol/water	Pow: 0.81; 20 ° C
Viscosity, dynamic	3.30 mPa.s

SECTION 10. Stability and reactivity

Reactivity	Stable under normal conditions.
Chemical stability	No data available
Possibility of hazardous reactions	Hazardous polymerisation does not occur.

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Conditions to avoid	Heat, flames and sparks.
Materials to avoid	Strong oxidizing agents Incompatible with acids. Halogenated compounds
Hazardous decomposition products	Carbon oxides.

SECTION 11. Toxicological information

Acute oral toxicity	2-Butoxyethanol; Ethylene glycol monobutyl ether butyl cellosolve: LD50 Rat: ca.> 2,000 mg/kg; (literature value)
Acute inhalation toxicity	2-Butoxyethanol; Ethylene glycol monobutyl ether butyl cellosolve: 4 h; 11 mg/l;
Acute dermal toxicity	2-Butoxyethanol; Ethylene glycol monobutyl ether butyl cellosolve: LD50 Rat: > 2,000 mg/kg; (literature value)
Skin irritation	2-Butoxyethanol; Ethylene glycol monobutyl ether butyl cellosolve: Rabbit: irritating;
Eye irritation	2-Butoxyethanol; Ethylene glycol monobutyl ether butyl cellosolve: irritating

SECTION 12. Ecological information



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Toxicity to fish	2-Butoxyethanol; Ethylene glycol monobutyl ether butyl cellosolve: static test; Carassius auratus (goldfish); 24 h; LC50; (literature value)
Toxicity to daphnia and other aquatic invertebrates	2-Butoxyethanol; Ethylene glycol monobutyl ether butyl cellosolve: Daphnia magna; 96 h; LC50; 550 - 950 mg/l(literature value)

SECTION 13. Disposal considerations

Product	In accordance with local and national regulations. Do not contaminate ponds, waterways or ditches with chemical or used container. The product should not be allowed to enter drains, water courses or the soil.
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SECTION 14. Transport information

Marine pollutant	Not a Marine Pollutant
Further Information	Not classified as dangerous in the meaning of transport regulations.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Butylene Glycol Ship Type: 3 Pollution Category: Y

SECTION 15. Regulatory information



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

USA TSCA Inventory	All chemical constituents are listed in: USA TSCA Inventory (See chapter 3)
Canadian Domestic Substances List (DSL)	All chemical constituents are listed in: Canadian Domestic Substances List (DSL) (See chapter 3)
Australian Inv. of Chem. Substances (AICS)	All chemical constituents are listed in: Australian Inv. of Chem. Substances (AICS) (See chapter 3)
New Zealand Inventory of Chemicals (NZIoC)	All chemical constituents are listed in: New Zealand Inventory of Chemicals (NZIoC) (See chapter 3)
Jap. Inv. of Exist. & New Chemicals (ENCS)	All chemical constituents are listed in: Jap. Inv. of Exist. & New Chemicals (ENCS) (See chapter 3)
Japan. Industrial Safety & Health Law (ISHL)	All chemical constituents are listed in: Japan. Industrial Safety & Health Law (ISHL) (See chapter 3)
Korea. Existing Chemicals Inventory (KECI)	All chemical constituents are listed in: Korea. Existing Chemicals Inventory (KECI) (See chapter 3)
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	All chemical constituents are listed in: Philippines Inventory of Chemicals and Chemical Substances (PICCS) (See chapter 3)
China Inv. Existing Chemical Substances (IECSC)	All chemical constituents are listed in: China Inv. Existing Chemical Substances (IECSC) (See chapter 3)

SECTION 16. Other information

Full text of H-Statements

H302 Harmful if swallowed.



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- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.

All reasonable efforts were exercised to compile this SDS in accordance with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS). The SDS only provides information regarding the health, safety and environmental hazards at the date of issue, to facilitate the safe receipt, use and handling of this product in the workplace and does not replace any product information or product specifications. Since Sasol and its subsidiaries cannot anticipate or control all conditions under which this 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 this 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 with respect to 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 this product.

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