

1. Product Identification.

Trade name: Butyl diglycol.
Use: Industrial use, raw material for washing and cleaning agents.

2. Composition/ Identification on Ingredients.

2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether. Content \geq 99.00%
CAS number: 112-34-5
Index number: 603-096-00-8
EG number: 203-961-6
Symbol(s): Xi
R-phrases: R36. For the full text of the R phrases mentioned, see section 15.

3. Hazards Identification.

Identification of the risks: Irritating to eyes.

4. First Aid Measures.

General advice: If you feel unwell, seek medical advice (show the label where possible). Take off all contaminated clothing immediately.
Skin contact: Wash off with plenty of water.
Eye contact: Rinse thoroughly with plenty of water for at least 5 minutes and consult a physician.

5. Fire Fighting Measures.

Suitable extinguishing media: Water spray, dry powder, foam, carbon dioxide (CO₂).

6. Accidental Release Measures.

Personal precautions: Use personal protective equipment.
Environmental precautions: Avoid subsoil penetration. Do not flush into surface water or sanitary sewer system.
Methods for cleaning up: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

7. Storage & Handling.

Safe handling advice: Wear personal protective equipment.
Protection against fire and explosion: No special protective measures against fire required.
Storage areas and containers: With exclusion of air/oxygen.
Container material: Unsuitable materials: light materials.

8. Exposure Controls/ Personal Protection.

Engineering measures: If possible, use material transfer/filling, metering and blending plants that are closed.
Personal protective equipment:
Hand protection: Gloves suitable for permanent contact: Material: Fluorkautschuk; breakthrough time: ≥ 480 min.; material thickness: 0.4mm
Eye protection: Tightly fitting safety goggles.
Skin and body protection: Protective suit.
Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs.
Protective measures: Avoid contact with eyes. Wear suitable gloves and eye/face protection.

9. Physical and Chemical Properties.

Form: Liquid.
Colour: Colourless.
Odour: Characteristic.
pH: 20 °C; neutral.
Melting point/range: - 68°C
Boiling point/range: 228 – 233°C; 101.3 hPa
Flash point: ca. 105°C; DIN 51758
Lower explosion limit: 0.7% (V)
Upper explosion limit: 5.3% (V)
Vapour pressure: 0.1 hPa; 20°C
Density: 0.952 – 0.955 g/cm³; 20°C
Water solubility: 20°C; completely miscible.
Partition coefficient (n-octanol/H₂O): Log Pow: 0.56
Viscosity, dynamic: 5.85 mPa.s; 20°C

10. Stability & Reactivity.

Hazardous decomposition products: No decomposition if stored normally.
Further information: Formation of peroxides may occur.



11. Toxicological Information.

Acute oral toxicity:	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether; LD ₅₀ rat: > 2.000 mg/kg; (literature value).
Acute dermal toxicity: ether;	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl LD ₅₀ rabbit: > 2.000 mg/kg; (literature value).
Skin irritation:	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether; Rabbit: moderately irritating; (literature value).
Eye irritation:	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether; Rabbit: highly irritating; (literature value).
Sensitisation: value).	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether; Maximisation test (GPMT) guinea pig: not sensitising; (literature
Genotoxicity in vitro:	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether; Ames test: not mutagenic; (literature value).

12. Ecological Information.

Biodegradability:	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether; Readily biodegradable: > 70%; 28d; OECD Guideline 301E; (literature value).
Ecotoxicity effects:	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether; Biodegradable; 100%; 28d; OECD Guideline 301B; (literature value).
Toxicity to fish:	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether; LC ₅₀ Leuciscus idusL > 100 mg/l; (literature value).
Toxicity to daphnia:	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether; EC ₅₀ Daphnia magna: > 100 mg/l; 48 h; (literature value).
Toxicity to algae:	2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether; EC ₅₀ acenedesmus subspicatus: > 100 mg/l; (literature value).

13. Disposal Information.

Product: Can be incinerated, when in compliance with local regulations.

Waste code of the EU: EWC: In agreement with the waste code must be determined regional waste disposal authority or company. A waste code in accordance with the European Waste Catalogue (EWC) may not be assigned to this product since it admits of a classification only when the consumer uses it for some purpose.

14. Transport Information.

Not classified as dangerous in the meaning of transport regulations.

15. Regulatory Information.

Labelling according to EC Directive: According to Annex 1 of Directive 67/548 EEC.

Symbol(s): Xi; irritant.

Risk phrase(s): R 36 Irritating to eyes.

Safety phrase(s): S 24 Avoid contact with the skin.
S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Additional advice: EC label.

Occupational restrictions: Employment restrictions for children and young workers in accordance with Directive 94/33/EC and the respective national provisions are to be observed.

16. Other Information.

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Carbon Group accepts no liability whatsoever (except as otherwise expressly provided by law) arising out of the use the information supplied, the application, adaptation or processing of the products described





SAFETY DATA SHEET

BUTYL DIGLYCOL

herein, the use of other materials in lieu of Carbon Group materials or the use of Carbon Group materials in conjunction with other materials.

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Co. Cork.

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A handwritten signature in blue ink that reads "Stewart O'Keefe".

Approved By: Quality Assurance Manager

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