

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product identifier:

Product Name: BUTYL DIGLYCOL
Chemical Name: 2-(2-butoxyethoxy) ethanol
Synonyms: BDGE (Butyl Diglycol Ether)
REACH Registration No.: 01-2119475104-44XXXX
CAS No.: 112-34-5
EC No.: 203-961-6

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

Industrial Applications, Solvent, Cleaning Agents.

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2. HAZARDS IDENTIFICATION

Classification of the substance or mixture - Eye Irrit. 2

Label elements:



Signal Word: Warning
Hazard statements: H319: Causes serious eye irritation.
Precautionary statements: P280: Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Wash thoroughly after handling.
If eye irritation persists: Get medical advice/attention.

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Risk Phrases:	Not applicable
Safety Phrases:	After contact with skin, wash immediately with plenty of soap and water Avoid contact with skin and eyes
Other hazards:	Mildly irritating to eyes

3. COMPOSITION / INFORMATION ON INGREDIENTS

Mixtures:	2-(2-butoxyethoxy) ethanol; diethylene glycol monobutyl ether
Concentration:	>98%
CAS Number:	112-34-5
EC Number:	203-961-6
R/H Phrases:	H319, R36
Symbols:	GHS07, Xi

4. FIRST AID MEASURES (SYMPTOMS)

Description of first aid measures:

NOTE TO PHYSICIANS:	Treat by observation and supportive measures as indicated by the patient's condition.
IF ON SKIN (or hair):	Take off immediately all contaminated clothing. Rinse skin with water [or shower].
IF INHALED:	Remove person to fresh air and keep comfortable for breathing.
If swallowed:	Do not induce vomiting: seek medical advice immediately and show this container or label.
If substance has got into eyes:	Immediately wash out with plenty of water for at least 15 minutes and get medical attention.

Most important symptoms and effects, both acute and delayed: Can cause damage to the eyes.

Indication of any immediate medical attention and special treatment needed:

5. FIRE-FIGHTING MEASURES

Extinguishing media: In case of fire use water spray or fog, alcohol resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture: Material is combustible

Advice for firefighters: Wear Breathing Apparatus.
Wear full protective clothing including chemical protection suit.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Wear protective clothing as per section 8.

Environmental precautions: Do not allow to enter public sewers and watercourses.

Methods and material for containment and cleaning up: Absorb spillage in earth or sand.
Collect as much as possible in clean container for reuse or disposal.
Wash thoroughly after dealing with spillage.

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Reference to other sections: See Section 7 for information on safe handling.
See Section 8 for information on personal protective equipment.

7. HANDLING AND STORAGE

Precautions for safe handling: The usual precautions for handling chemicals should be observed.

Conditions for safe storage, including any incompatibilities: Keep away from oxidising substances.

Specific end use(s):

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters: WEL (long term): 10 ppm
WEL (short term): 15 ppm

Exposure controls: No special precautions are required for this product but if vapour levels exceed the WEL respiratory protection will be required.

Occupational exposure controls: Wear suitable protective clothing.
Wear goggles giving complete eye protection.
Wear plastic gloves specified as compatible by the manufacturer.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

Odour: Characteristic odour
Appearance: Clear Liquid
Boiling point: @ 230°C (Pressure 1,013 hPa)
Vapour Pressure: 0.02 hPa 20°C
Melting Point minus: 64°C
Solubility: Completely soluble in water
Density: 0.955 kg/m³ at 20°C
Flash Point CC: 115°C
Lower flammability limit: 0.7% (in air)
Upper flammability limit: 5.3% (in air)
Auto-ignition point 210°C
Partition coefficient: n-Octanol/water 1
Viscosity: 6 mPa.s at 20°C
Other information:

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10. STABILITY AND REACTIVITY

Reactivity: Stable under normal temperature conditions and recommended use

Chemical stability: Stable at normal temperature conditions and recommended use.

Possibility of hazardous reactions: None under normal processing

Conditions to avoid: Avoid contact with oxidising substances

Incompatible materials: Incompatible with strong oxidizing substances

Hazardous decomposition products: Decomposition products may include carbon oxides

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects:

LD50 (oral, rat): >2000 mg/kg

LD50 (skin, rabbit): >2000 mg/kg

Inhalation: Not hazardous

Contact with skin: Not hazardous

Contact with eyes: May cause irritation

Ingestion: Not hazardous

Carcinogenicity: No evidence of carcinogenic effects

Teratogenicity: No evidence of reproductive effects

Mutagenicity: No evidence of mutagenic effects No evidence of reproductive effects

12. ECOLOGICAL INFORMATION

Toxicity: LC50 (fish): >100 mg/l (96 hr)
EC50 (daphnia): >100 mg/l (48 hr)
IC50 (algae): >100 mg/l (72 hr)

Persistence and degradability: Readily biodegradable

Bioaccumulative potential: Bioaccumulation is insignificant

Mobility in soil: Completely soluble in water

Results of PBT and vPvB assessment: Not a PBT according to REACH Annex XIII

Other adverse effects: On available data, substance is not harmful to the environment

13. DISPOSAL CONSIDERATIONS

Waste treatment methods: Incineration by an approved method could be considered - To be disposed of as hazardous waste.

14. TRANSPORT INFORMATION

UN number:

UN proper shipping name:

Transport hazard class(es):

Packing group:

Environmental hazards:

Special precautions for user:

[cont...]

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Transport in bulk according to Annex II of Marpol and the IBC Code:

Emergency Action Code:

Proper Shipping Name:

EAC:

Road/Rail (ADR/RID):

Proper Shipping Name:

ADR UN No.:

ADR Hazard Class:

ADR Item No.:

ADR/RID No.:

Tram card:

Tunnel Code:

Sea (IMDG):

Proper Shipping Name:

IMDG UN No.:

IMDG Hazard Class:

IMDG Page No.:

IMDG Pack Group:

IMDG EmS:

IMDG MFAG:

Air (ICAO/IATA):

Proper Shipping Name:

ICAO UN No.:

ICAO Hazard Class:

ICAO Packing Group:

DOT / CFR (US Department of Transportation):

DOT Proper Shipping Name:

Hazardous Material:

Hazard Class:

Identification Number:

Product RQ (lbs):

15. REGULATORY INFORMATION

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

Not hazardous according to current ADR Regulations

INVENTORIES:

EINECS, TSCA, AICS, DSL, ENCS, KECI, PICCS, IECSC - All conformed to.

Chemical safety assessment:

[cont...]

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Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

Text not given with phrase codes where they are used elsewhere in this safety data sheet:

H319: Causes serious eye irritation.

R36: Irritating to eyes.

Legal disclaimer:

The information contained in this SDS does not constitute a risk assessment, and should not replace the user's own assessment of risks as required by other health and safety legislation. This advice is given by Nexchem Ltd who accept no legal liability for it except otherwise provided by law. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.