

Diethylene glycol mono	butyl ether solution 25 % in w	vater for the determination of the c	loud					
	point of							
Revision date: 31.08.2022	Product code: 140	53	Page 1 of 11					
SECTION 1: Identification of the s	substance/mixture and of the cor	npany/undertaking						
1.1. Product identifier								
Diethylene glycol monobutyl et	Diethylene glycol monobutyl ether solution 25 % in water for the determination of the cloud point of							
UFI:	NHW7-W1GR-K00M-QHJU							
1.2. Relevant identified uses of the s	ubstance or mixture and uses advis	ed against						
Use of the substance/mixture								
Laboratory chemicals								
,	nces as such or in preparations at ind	ustrial sites						
	in (administration, education, entertai							
Uses advised against	•							
Do not use for private purposes	(household).							
1.3. Details of the supplier of the safe	, ,							
Company name:	Fa. Bernd Kraft GmbH							
Street:	Stempelstraße 6							
Place:	D-47167 Duisburg							
Telephone:	0203/5194-0	Telefax: 0203/5194-290						
e-mail:	info@berndkraft.de							
Contact person:	Abteilung Produktsicherheit	Telephone: 0203/5194-107/117						
e-mail:	produktsicherheit@berndkraft.de							
Internet:	www.berndkraft.de							
Responsible Department:	Abteilung Produktsicherheit							
1.4. Emergency telephone		erous Goods] Incidents Spill, Leak, Fire,						
number:	•	REC Day or Night Within USA and Canada	1:					
	1-800-424-9300 Outside USA and accepted)	Canada: +1 703-741-5970 (collect calls						
	accepted							
Further Information	ixture REACH registration number se	o soction 3						
mapplicable, this product is a fi								

# **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

#### **GB CLP Regulation**

Eye Irrit. 2; H319

Full text of hazard statements: see SECTION 16.

# 2.2. Label elements

**Pictograms:** 

P280

GB CLP Regulation Signal word:

Warning



Hazard statements H319

Causes serious eye irritation.

# Precautionary statements

Wear protective gloves/protective clothing/eye protection/face protection/hearing



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P305+P351+P338	protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if						
	present and easy to do. Continue rinsing.						
P337+P313	If eye irritation persists: Get medical advice/attention.						
<u>2.3. Other hazards</u> No data available							

#### **SECTION 3: Composition/information on ingredients**

#### 3.2. Mixtures

#### Hazardous components

CAS No	Chemical name			Quantity		
	EC No Index No REACH No					
	Classification (GB CLP Regulation)					
112-34-5	2-(2-butoxyethoxy)ethanol			25 - < 30 %		
	203-961-6 603-096-00-8 01-2119475104-44					
	Eye Irrit. 2; H319					

Full text of H and EUH statements: see section 16.

#### Specific Conc. Limits, M-factors and ATE

CAS No	EC No	EC No Chemical name			
	Specific Conc. Limits, M-factors and ATE				
112-34-5	203-961-6	203-961-6 2-(2-butoxyethoxy)ethanol			
	dermal: LD50 = 2764 mg/kg; oral: LD50 = 2410 mg/kg				

#### Further Information

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of = 0.1 % (w/w).

#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

#### General information

No data available

#### After inhalation

Provide fresh air.

Call a doctor if you feel unwell.

# After contact with skin

Wash immediately with: Water Take off immediately all contaminated clothing and wash it before reuse.

#### After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

Remove contact lenses, if present and easy to do. Continue rinsing.

# After ingestion

Rinse mouth immediately and drink plenty of water. Call a physician immediately.

# 4.2. Most important symptoms and effects, both acute and delayed

Irritant

Dyspnoea



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Dizziness

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Gastrointestinal complaints

#### 4.3. Indication of any immediate medical attention and special treatment needed

No data available

#### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

#### Suitable extinguishing media

Carbon dioxide (CO2)

Foam

Extinguishing powder

#### Unsuitable extinguishing media

no restriction

#### 5.2. Special hazards arising from the substance or mixture

Hazardous combustion products

In case of fire may be liberated: Carbon dioxide (CO2) Carbon monoxide

#### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. In case of fire and/or explosion do not breathe fumes. Avoid contact with skin, eyes and clothes.

#### Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Move undamaged containers from immediate hazard area if it can be done safely. Use water spray jet to protect personnel and to cool endangered containers.

# **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

Provide adequate ventilation. Use personal protection equipment. Avoid contact with skin, eyes and clothes. Remove persons to safety. Emergency procedures Consult an expert

Do not breathe dust/fume/gas/mist/vapours/spray.

# For emergency responders

Precautionary statements For emergency responders : Personal protection equipment: see section 8

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

#### 6.3. Methods and material for containment and cleaning up

#### For containment

Cover drains.

Prevent spread over a wide area (e.g. by containment or oil barriers).

Collect in closed and suitable containers for disposal.

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

#### For cleaning up

Clean contaminated articles and floor according to the environmental legislation.



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# Other information

Provide adequate ventilation. Do not breathe dust/fume/gas/mist/vapours/spray. Wear breathing apparatus if exposed to vapours/dusts/aerosols.

#### 6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

# **SECTION 7: Handling and storage**

# 7.1. Precautions for safe handling

#### Advice on safe handling

Read label before use. Handle and open container with care. When using do not eat, drink, smoke, sniff. Keep container tightly closed. Use personal protection equipment. Use extractor hood (laboratory). Do not breathe vapour/aerosol. Provide adequate ventilation.

#### Advice on protection against fire and explosion

Usual measures for fire prevention.

#### Advice on general occupational hygiene

Keep away from food, drink and animal feedingstuffs.

Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

Avoid: aerosol or mist formation Do not breathe vapour/aerosol.

#### Further information on handling

Take off immediately all contaminated clothing and wash it before reuse. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. If handled uncovered, arrangements with local exhaust ventilation have to be used.

# 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Unsuitable container/equipment material: Aluminium Zinc tin

#### Hints on joint storage

national regulations

#### Further information on storage conditions

Protect from sunlight.

Keep container tightly closed.

#### 7.3. Specific end use(s)

Laboratory chemicals

# **SECTION 8: Exposure controls/personal protection**

# 8.1. Control parameters



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#### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
112-34-5	2-(2-Butoxyethoxy)ethanol	10	67.5		TWA (8 h)	WEL
		15	101.2		STEL (15 min)	WEL

# **DNEL/DMEL** values

CAS No	Substance						
DNEL type		Exposure route	Effect	Value			
112-34-5	2-(2-butoxyethoxy)ethanol						
Worker DNE	L, long-term	inhalation	systemic	67,5 mg/m³			
Worker DNEL, long-term		inhalation	local	67,5 mg/m³			
Worker DNEL, acute		inhalation	local	101,2 mg/m <sup>3</sup>			
Worker DNE	L, long-term	dermal	systemic	83 mg/kg bw/day			
Consumer D	NEL, long-term	inhalation	systemic	40,5 mg/m <sup>3</sup>			
Consumer D	NEL, long-term	inhalation	local	40,5 mg/m <sup>3</sup>			
Consumer DNEL, acute		inhalation	local	60,7 mg/m³			
Consumer DNEL, long-term		dermal	systemic	50 mg/kg bw/day			
Consumer DNEL, long-term		oral	systemic	5 mg/kg bw/day			

#### **PNEC** values

CAS No	Substance	
Environmental compartment Value		
112-34-5	2-(2-butoxyethoxy)ethanol	
Freshwater		1,1 mg/l
Freshwater (intermittent releases)		11 mg/l
Marine water		0,11 mg/l
Freshwater sediment		4,4 mg/kg
Marine sediment		0,44 mg/kg
Secondary poisoning		56 mg/kg
Micro-organisms in sewage treatment plants (STP)		200 mg/l
Soil		0,32 mg/kg

# 8.2. Exposure controls

#### Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

If handled uncovered, arrangements with local exhaust ventilation have to be used.

#### Individual protection measures, such as personal protective equipment

#### Eye/face protection

goggles

Face protection umbrella

#### Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is



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recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Suitable examples are gloves of KCL GmbH, D-36124 Eichenzell, e-mail: vertrieb@kcl.de with the following specification (test according to EN 374):

By long-term hand contact Trade name/designation KCL 730 Camatril® Velours Suitable material: NBR (Nitrile rubber) 0,4 mm Wearing time with permanent contact: > 480 min

By short-term hand contact Trade name/designation KCL 730 Camatril® Velours Suitable material: NBR (Nitrile rubber) 0,4 mm Wearing time with occasional contact (splashes): > 480 min

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. 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 (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

#### Skin protection

Wear fire resistant or flame retardant clothing.

Take off immediately all contaminated clothing and wash it before reuse.

Wear suitable protective clothing. Take off immediately all contaminated clothing.

Wash hands and face before breaks and after work and take a shower if necessary.

# **Respiratory protection**

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

#### **Environmental exposure controls**

Do not allow to enter into surface water or drains.

Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches. Danger of explosion

# **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state: Colour: Odour:	Liquid colourless odourless	
Odour threshold:	No data available	
Melting point/freezing point:		No data available
Boiling point or initial boiling point and		No data available
boiling range:		
Flammability		
Solid/liquid:		No data available
Gas:		No data available
Lower explosion limits:		No data available
Upper explosion limits:		No data available
Flash point:		>105 °C
Auto-ignition temperature:		No data available
Decomposition temperature:		No data available



Revision date: 31.08.2022     Product code: 14053     Page 7 of 11       pH-Value:     4.7       Vacescolty / kinematic:     No data available       Water solubility:     Soluble in: Water       Solubility in other solvents     No data available       No data available     Dissolution rate:     No data available       Partition coefficient n-octanol/water:     No data available     No data available       Dispersion stability:     No data available     No data available       Vapour pressure:     No data available     No data available       Vapour pressure:     No data available     No data available       Vapour pressure:     No data available     No data available       Partice characteristics:     No data available     No data available       Bulk density:     No data available     No data available       Partice characteristics:     No data available     No data available       Solutic information     No data available     No data available       Solid:	Diethylene glycol monobutyl ether sol	ution 25 % in water for the determination point of	of the cloud
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	Further Information		
SECTION 10: Stability and reactivity	No data available		
	SECTION 10: Stability and reactivity		

#### 10.1. Reactivity

No data available

# 10.2. Chemical stability

In case of air intake: Formation of: Peroxides

# 10.3. Possibility of hazardous reactions

Oxidising agent Aluminium



Diethylene glycol monobutyl ether solution 25 % in water for the determination of the cloud										
Revision da	te: 31.08.2022		point of Product code: 140	)53	Page 8 of 11					
	<u>10.4. Conditions to avoid</u> Heat									
Alun	<u>10.5. Incompatible materials</u> Aluminium Light metal									
	10.6. Hazardous decomposition products Peroxides									
Further info No c	ormation ata available									
SECTION	11: Toxicological info	rmation								
Toxicoc Ther Acute to	nation on hazard classes inetics, metabolism and e are no data available o oxicity ed on available data, the o	distribution n the preparation/m	ixture itself.							
CAS No	Chemical name									
	Exposure route	Dose	Species	Source	Method					
112-34-5	2-(2-butoxyethoxy)ethar	lol								
	oral	LD50 2410 mg/kg	Mouse	Study report (1981)	OECD Guideline 401					
	dermal	LD50 2764 mg/kg	Rabbit	Study report (1981)	OECD Guideline 402					

#### Irritation and corrosivity

Causes serious eye irritation.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

#### Sensitising effects

Based on available data, the classification criteria are not met.

#### Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

#### STOT-single exposure

Based on available data, the classification criteria are not met.

#### STOT-repeated exposure

Based on available data, the classification criteria are not met.

#### Aspiration hazard

Based on available data, the classification criteria are not met.

#### Information on likely routes of exposure

There are no data available on the preparation/mixture itself.

# Specific effects in experiment on an animal

There are no data available on the preparation/mixture itself.

#### Additional information on tests

There are no data available on the preparation/mixture itself.

#### Practical experience

There are no data available on the preparation/mixture itself.

# 11.2. Information on other hazards



Diethylene glycol monobut	yl ether solution 25 % in water for the determ point of	ination of the cloud
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Endocrine disrupting properties		
There are no data available on the p	reparation/mixture itself.	
Other information		
Prolonged or repeated skin contact r inflammation). Damage to: liver kidneys	may cause removal of natural fat from the skin resulting i	n dermatitis (skin
Further information Irritant Dyspnoea Dizziness Gastrointestinal complaints		
SECTION 12: Ecological information		
12.1. Toxicity There are no data available on the n CAS No Chemical name	nixture itself.	

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method
112-34-5	2-(2-butoxyethoxy)ethanol						
	Acute fish toxicity	LC50 mg/l	1300	96 h	Lepomis macrochirus	J Haz Mat, 1, p303-18 (1977)	OECD Guideline 203
	Acute algae toxicity	ErC50 mg/l	> 100		Desmodesmus subspicatus	Study report (1992)	OECD Guideline 201
	Acute crustacea toxicity	EC50 mg/l	> 100	48 h	Daphnia magna	Study report (1992)	EU Method C.2

# 12.2. Persistence and degradability

There are no data available on the mixture itself.

#### 12.3. Bioaccumulative potential

There are no data available on the mixture itself.

#### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
112-34-5	2-(2-butoxyethoxy)ethanol	1

#### 12.4. Mobility in soil

There are no data available on the mixture itself.

# 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the  $\mathsf{PBT/vPvB}$  criteria according to UK REACH.

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

# 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

There are no data available on the mixture itself.

# 12.7. Other adverse effects

Avoid release to the environment.

#### Further information

Do not allow to enter into surface water or drains.



Product code: 14053

# Diethylene glycol monobutyl ether solution 25 % in water for the determination of the cloud

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# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

#### **Disposal recommendations**

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. Send to a physico-chemical treatment facility under observation of official regulations. Do not empty into drains.

#### Contaminated packaging

Handle contaminated packages in the same way as the substance itself. The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

# **SECTION 14: Transport information**

#### Land transport (ADR/RID)

No dangerous good in sense of this transport regulation.
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sport regulation.
IMO instruments
isport regulation.

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

#### EU regulatory information

Restrictions on use (REACH, annex XVII): Entry 3, Entry 55, Entry 75

#### National regulatory information



Diethylene glycol mono	butyl ether solution 25 % in water for the determine	nation of the cloud
	point of	
Revision date: 31.08.2022	Product code: 14053	Page 11 of 11
Employment restrictions:	Observe restrictions to employment for juveniles acco work protection guideline' (94/33/EC).	ording to the 'juvenile
Water hazard class (D):	1 - slightly hazardous to water	

#### **SECTION 16: Other information**

#### Changes

This data sheet contains changes from the previous version in section(s): 9.

#### Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure
Eye Irrit. 2; H319	Calculation method

# Relevant H and EUH statements (number and full text)

H319 Causes serious eye irritation.

#### **Further Information**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material. The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)