

Safety Data Sheet

Textile Protector – Water-Based

Issued: 08/03/2025
Version: 1.0.0

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

1.1. Product identifier

Trade name: Textile Protector – Water-Based

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

Recommended uses: Impregnation agents.

1.3. Details of the supplier of the safety data sheet

Supplier

Company: Guardian Protection Products A/S
Address: Knudevejen 22
Zip code: 6600
City: Vejen
Country: DENMARK
Email: guardian@guardian.dk
Phone: +45 75471767
Fax: +45 75471787

1.4. Emergency Telephone Number

+45 75 47 17 67 (Guardian Protection Products A/S)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

CLP-classification: The product shall not be classified as hazardous according to the classification and labeling rules for substances and mixtures..

Most serious harmful effects: May cause slight irritation to the skin and eyes. The product contains small quantities of organic solvents. When working in large areas in poorly ventilated rooms, the vapours may cause headache and dizziness.

2.2. Label elements

The product shall not be classified as hazardous according to the classification and labeling rules for substances and mixtures..

2.3. Other hazards

The product does not contain any PBT or vPvB substances.
Endocrine disrupting properties: None known.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Substance	CAS No./ EC No./ REACH Reg. No.	Concentration	Notes	CLP-classification
2-(2-butoxyethoxy)ethanol	112-34-5 203-961-6	3 - 5 %	28	Eye Irrit. 2;H319
3-butoxypropan-2-ol	5131-66-8 225-878-4	1 - 3 %		Skin Irrit. 2;H315 Eye Irrit. 2;H319

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Benzyl-C12-14-alkyldimethylammonium chlorides	85409-22-9 939-350-2 01-2119970550-39	< 0.1 %	Acute Tox. 4;H302 Skin Corr. 1B;H314 Eye Dam. 1;H318 Aquatic Acute 1;H400 Aquatic Chronic 1;H410 M (acute): 10 M (chronic): 1
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Please see section 16 for the full text of H- / EUH-phrases.

28 = The substance is covered by regulation 1907/2006/EU, annex XVII regarding restrictions.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:	Seek fresh air.
Ingestion:	Wash out mouth thoroughly and drink 1-2 glasses of water in small sips. Seek medical advice in case of persistent discomfort.
Skin contact:	Remove contaminated clothing. Wash skin with soap and water. Seek medical advice in case of persistent discomfort.
Eye contact:	Flush with water (preferably using eye wash equipment) until irritation subsides. Seek medical advice if symptoms persist.
General:	When obtaining medical advice, show the safety data sheet or label.

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

May cause slight irritation to the skin and eyes. The product contains small quantities of organic solvents. When working in large areas in poorly ventilated rooms, the vapours may cause headache and dizziness.

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

Treat symptoms. No special immediate treatment required.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:	The product is not directly flammable. Choose extinguishing agents based on the surrounding fire.
Unsuitable extinguishing media:	Do not use water stream, as it may spread the fire.

5.2. Special hazards arising from the substance or mixture

The product is not directly flammable. Avoid inhalation of vapour and fumes - seek fresh air. The product decomposes when combusted and the following toxic gases can be formed: Carbon monoxide and carbon dioxide.

5.3. Advice for firefighters

If there is a risk of exposure to vapour and flue gases, a self-contained breathing apparatus must be worn.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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For non-emergency personnel: Stop leak if this can be done without risk. Wear gloves. Wear safety goggles if there is a risk of eye splash.

For emergency responders: In addition to the above: Normal protective clothing equivalent to EN 469 is recommended.

6.2. Environmental precautions

Do not discharge large quantities of concentrated spills and residue into drains.

6.3. Methods and material for containment and cleaning up

Contain and absorb spill with sand or other absorbent material and transfer to suitable waste containers. Wipe up minor spills with a cloth.

6.4. Reference to other sections

See section 8 for type of protective equipment. See section 13 for instructions on disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Running water and eye wash equipment should be available. Wash hands before breaks, before using restroom facilities, and at the end of work.

7.2. Conditions for safe storage, including any incompatibilities

The product should be stored safely out of reach of children and not together with food, feed, medicine and the like. Keep in tightly closed original packaging. Store frost-free. Do not store with the following: Strong alkalis/ Strong acids/ Strong oxidisers/ Strong reducing agents.

7.3. Specific end use(s)

None.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit

Substance name	Time period	ppm	mg/m ³	Fiber/cm ³	Remarks	Notation
2-(2-butoxyethoxy) ethanol	8h	10	67.5			
2-(2-butoxyethoxy) ethanol	15m	15	101.2			

Measuring methods:

Compliance with occupational exposure limits may be checked by occupational hygiene measurements.

Legal basis:

Commission Directive 2000/39/EC (Occupational Exposure Limits) as subsequently amended. Last amended by Commission Directive 2019/1831/EU. Directive 2004/37/EC (Exposure to carcinogens or mutagens at work) as subsequently amended. Last amended by Directive 2024/869/EU. Directive 2009/148/EC (Exposure to asbestos at work) as subsequently amended. Last amended by Directive 2023/2668/EU.

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PNEC

2-(2-butoxyethoxy)ethanol, cas-no 112-34-5				
Exposure	Value	Assessment Factor	Extrapolation Method	Note
PNEC aqua (freshwater)	1.1 mg/l			
PNEC sediment (freshwater)	4.4 mg/kg			
PNEC aqua (marine water)	110 µg/l			
PNEC sediment (marine water)	440 µg/kg			
PNEC soil	320 µg/kg			
PNEC aqua (intermittent releases (fresh water))	11 mg/l			
3-butoxypropan-2-ol, cas-no 5131-66-8				
Exposure	Value	Assessment Factor	Extrapolation Method	Note
PNEC aqua (freshwater)	0,525 mg/l			
PNEC aqua (marine water)	0,0525 mg/l			
PNEC aqua (intermittent releases)	5,25 mg/l			
PNEC STP (wastewater-treatment facilities)	10 mg/l			
PNEC sediment (freshwater)	2,36 mg/kg dw			
PNEC sediment (marine water)	0,236 mg/kg dw			
PNEC soil	0,16 mg/kg dw			
Benzyl-C12-14- alkyldimethylammonium chlorides, cas-no 85409-22-9				
Exposure	Value	Assessment Factor	Extrapolation Method	Note
PNEC aqua (freshwater)	120 - 900 ng/l			
PNEC sediment (freshwater)	12.27 - 31.9 mg/kg			
PNEC aqua (marine water)	12 - 960 ng/l			
PNEC sediment (marine water)	3.19 - 13.09 mg/kg			
PNEC soil	6.38 - 7 mg/kg			
PNEC aqua (intermittent releases (fresh water))	160 ng/l			
PNEC aqua (intermittent releases (marine water))	16 ng/l			
PNEC STP (wastewater-treatment facilities)	160 - 400 µg/l			

DNEL - workers

2-(2-butoxyethoxy)ethanol, cas-no 112-34-5					
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Inhalation DNEL (acute/short-term exposure - local effects)	101.2 mg/m³				

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Inhalation DNEL (long-term exposure - local effects)	67.5 mg/m ³				
3-butoxypropan-2-ol, cas-no 5131-66-8					
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Dermal DNEL (long-term exposure - systemic effects)	52 mg/kg bw/day				
Inhalation DNEL (long-term exposure - systemic effects)	147 mg/m ³				
Benzyl-C12-14- alkyldimethylammonium chlorides, cas-no 85409-22-9					
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Dermal DNEL (long-term exposure - systemic effects)	3.1 mg/kg bw/day				
Inhalation DNEL (long-term exposure - systemic effects)	3.06 mg/m ³				

DNEL - general population

2-(2-butoxyethoxy)ethanol, cas-no 112-34-5					
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Oral DNEL (long-term exposure - systemic effects)	6.25 mg/kg bw/day				
3-butoxypropan-2-ol, cas-no 5131-66-8					
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Dermal DNEL (long-term exposure - systemic effects)	22 mg/kg bw/day				
Inhalation DNEL (long-term exposure - systemic effects)	43 mg/m ³				
Oral DNEL (long-term exposure - systemic effects)	12,5 g/kg bw/day				
Benzyl-C12-14- alkyldimethylammonium chlorides, cas-no 85409-22-9					
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Dermal DNEL (long-term exposure - systemic effects)	3.4 mg/kg bw/day				
Inhalation DNEL (long-term exposure - systemic effects)	1.64 mg/m ³				
Oral DNEL (long-term exposure - systemic effects)	3.4 mg/kg bw/day				

8.2. Exposure controls

Appropriate engineering controls:

Wear the personal protective equipment specified below. Use the product under well-ventilated conditions, preferably outdoors.

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Personal protective equipment, eye/face protection: Wear safety goggles if there is a risk of eye splash. Eye protection must conform to EN 16321.

Personal protective equipment, hand protection: Plastic or rubber gloves recommended.

Personal protective equipment, respiratory protection: Not required.

Environmental exposure controls: Ensure compliance with local regulations for emissions.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Parameter	Value/unit
State	Liquid
Colour	Clear
Odour	Odourless
Solubility	No data

Parameter	Value/unit	Remarks
Odour threshold	No data	
Melting point	No data	
Freezing point	No data	
Boiling point or initial boiling point and boiling range	100 °C	
Flammability	No data	
Flammability limits	No data	
Lower and upper explosion limit	No data	
Flash Point	No data	
Auto-ignition temperature	No data	
Decomposition temperature	No data	
pH (solution for use)	No data	
pH (concentrate)	6.5	
Kinematic viscosity	No data	
Viscosity	No data	
Partition coefficient n-octanol/water (log value)	No data	
Vapour pressure	No data	
Density	1 g/cm³	
relative density	No data	
Relative vapour density	No data	
Relative density (sat. air)	No data	
Particle characteristics	No data	

9.2. Other information

Parameter	Value/unit	Remarks
VOC (Volatile organic compounds):	50 g/l	

Other Information: None.

SECTION 10: Stability and reactivity

10.1. Reactivity

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Reacts with the following: Strong alkalis/ Strong acids/ Strong oxidisers/ Strong reducing agents.

10.2. Chemical stability

The product is stable when used in accordance with the supplier's directions.

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

Strong alkalis/ Strong acids/ Strong oxidisers/ Strong reducing agents.

10.6. Hazardous decomposition products

The product decomposes when combusted or heated to high temperatures and the following toxic gases can be formed:
Carbon monoxide and carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity - oral

2-(2-butoxyethoxy)ethanol, cas-no 112-34-5

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		5660 mg/kg			

Ingestion may cause discomfort. The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

Acute toxicity - dermal

2-(2-butoxyethoxy)ethanol, cas-no 112-34-5

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rabbit	LD50		2700 mg/kg			

The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

Acute toxicity - inhalation:

The product does not have to be classified. Test data are not available.

Skin corrosion/irritation:

May cause slight irritation. The product does not have to be classified. Test data are not available.

Serious eye damage/eye irritation:

May cause eye irritation. The product does not have to be classified. Test data are not available.

Respiratory sensitisation or skin sensitisation:

The product does not have to be classified. Test data are not available.

Germ cell mutagenicity:

The product does not have to be classified. Test data are not available.

Carcinogenic properties:

The product does not have to be classified. Test data are not available.

Reproductive toxicity:

The product does not have to be classified. Test data are not available.

Single STOT exposure:

Inhalation of spray mist may cause irritation to the upper airways. The product does not

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have to be classified. Test data are not available. The product contains small quantities of organic solvents. When working in large areas in poorly ventilated rooms, the vapours may cause headache and dizziness.

Repeated STOT exposure: The product does not have to be classified. Test data are not available.

Aspiration hazard: The product does not have to be classified. Test data are not available.

11.2. Information on other hazards

Endocrine disrupting properties: None known.

Other toxicological effects: None known.

SECTION 12: Ecological information

12.1. Toxicity

2-(2-butoxyethoxy)ethanol, cas-no 112-34-5

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Fish			96hLC50	1300 mg/l			
Crustacea	Daphnia sp.		48hEC50	> 100 mg/l			
Algae			IC50	53 mg/l			

The product contains small quantities of environmentally hazardous substances. The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

12.2. Persistence and degradability

2-(2-butoxyethoxy)ethanol, cas-no 112-34-5

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
				89 %	Readily biodegradable.	OECD 301 C	

Test data are not available for all substances.

12.3. Bioaccumulative potential

2-(2-butoxyethoxy)ethanol, cas-no 112-34-5

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
			BCF	2.9			
			Log Kow	0.68			

Test data are not available for all substances.

12.4. Mobility in soil

Test data are not available.

12.5. Results of PBT and vPvB assessment

The product does not contain any PBT or vPvB substances.

12.6. Endocrine disrupting properties

None known.

12.7. Other adverse effects

None known.

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Do not discharge large quantities of concentrated spills and residue into drains. Avoid discharge to drain or surface water. If this product as supplied becomes a waste, it does not meet the criteria of a hazardous waste (Dir. 2008/98/EU). Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

Empty, cleansed packaging should be disposed of for recycling. Uncleansed packaging is to be disposed of via the local waste-removal scheme.

Category of waste: EWC code: Depends on line of business and use, for instance
Product: 16 05 09 discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08
Absorbent/cloth contaminated with the product: 15 02 03 absorbents, filter materials, wiping cloths and protective clothing other than those mentioned in 15 02 02

SECTION 14: Transport information

14.1. UN number or ID number:	Not applicable.	14.4. Packing group:	Not applicable.
14.2. UN proper shipping name:	Not applicable.	14.5. Environmental hazards:	Not applicable.
14.3. Transport hazard class(es):	Not applicable.		

14.6. Special precautions for user

None.

14.7. Maritime transport in bulk according to IMO instruments

Not applicable.

SECTION 15: Regulatory information

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

Special Provisions:

None known.

15.2. Chemical Safety Assessment

REACH Reg. No.	Substance name
01-2119970550-39	Benzyl-C12-14- alkyldimethylammonium chlorides

SECTION 16: Other information

Version history and indication of changes

Version	Revision date	Responsible	Changes
1.0.0	08/03/2025	JST	

Abbreviations: DNEL: Derived No Effect Level
PBT: Persistent, Bioaccumulative and Toxic
PNEC: Predicted No Effect Concentration
STOT: Specific Target Organ Toxicity
UFI: Unique formula identifier.

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vPvB: Very Persistent and Very Bioaccumulative

Other Information:

This safety data sheet has been prepared for and applies to this product only. It is based on our current knowledge and the information that the supplier was able to provide about the product at the time of preparation. The safety data sheet complies with applicable law on preparation of safety data sheets in accordance with 1907/2006/EC (REACH) as subsequently changed.

Training advice:

A thorough knowledge of this safety data sheet should be a prerequisite condition.

Classification method:

Calculation based on the hazards of the known components.

Hazard statements

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

SDS is prepared by

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