

SAFETY DATA SHEET

BarrierTech Sanitiser

The safety data sheet is in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

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

Date issued 01.06.2020

1.1. Product identifier

Product name BarrierTech Sanitiser

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

Product group Biocide. Product-type 2.

Use of the substance / preparation Surface disinfection.

1.3. Details of the supplier of the safety data sheet

Company name	Fiber ProTector Norge AS
Postal address	Grini Næringspark 1
Postcode	1361
City	ØSTERÅS
Country	Norway
Telephone number	+47 23 23 15 55
Email	espen@fiberprotector.com
Website	www.fiberprotector.no
Enterprise No.	996 607 593

1.4. Emergency telephone number

Emergency telephone Telephone number: National Poisons Information Service (NPIS): 0344 892 0111

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

CLP classification, comments Classification according to (EU) No. 1272/2008 (CLP): Not classified.

2.2. Label elements

Other label information (CLP)

No labelling acquired according to (EU) no 1272/2008 (CLP).

2.3. Other hazards

PBT / vPvB

This substance/mixture does not meet the PBT/vPvB criteria of REACH regulation, annex XIII.

SECTION 3: Composition / information on ingredients**3.2. Mixtures**

Substance	Identification	Classification	Contents	Notes
Didecyldimethylammonium chloride	CAS No.: 7173-51-5	Acute Tox. 3; H301	0,075 %	
	EC No.: 230-525-2	Skin Corr. 1B; H314		
	REACH Reg. No.: 01-2119945987-15	Eye Dam. 1; H318		
		Aquatic Acute 1; H400; M-factor 10 Aquatic Chronic 2; H411		
Alkyl (C12-16) dimethylbenzyl ammonium chloride	CAS No.: 68424-85-1	Acute Tox. 4; H302	0,05 %	
	EC No.: 270-325-2	Skin Corr. 1B; H314		
	REACH Reg. No.: 01-2119965180-41	Eye Dam. 1; H318		
		Aquatic Acute 1; H400; M-factor 10 Aquatic Chronic 1; H410		

Substance comments

Full text of H-statements: see section 16.

SECTION 4: First aid measures**4.1. Description of first aid measures**

General

In case of doubt or persistent symptoms, consult always a physician. Emergency telephone number, see section 1.4. If medical advice is needed, have product container or label at hand.

Inhalation

Remove person to fresh air and keep comfortable for breathing.

Skin contact

Normally not necessary. Rinse skin with water/shower. Seek medical attention if irritation persists.

Eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion

Rinse mouth. Give water to drink. Do not give an unconscious person anything to drink. Do not induce vomiting. Get medical advice/attention.

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

Acute symptoms and effects

IF INHALED: Vapor/mist can be slightly irritating.

IF ON SKIN: Repeated or prolonged skin contact may cause slight irritation.

IF IN EYES: May cause slight irritation. Redness, pain, tears.

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

Other information

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Foam, powder, water spray/mist, carbon dioxide.
Improper extinguishing media	Do not use straight streams.

5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards	Not combustible.
Hazardous combustion products	May include, but not limited to: Carbon oxides (CO, CO ₂). Unspecified organic compounds. Nitrogen oxides (NO _x). Halogenated compounds. Hydrogen chloride.

5.3. Advice for firefighters

Personal protective equipment	Wear a self-contained breathing apparatus (SCBA) and appropriate personal protective equipment (PPE).
Other information	Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	Ventilate spillage area. Avoid eye contact. Avoid prolonged contact with skin. Use personal protective equipment as required. Refer to section 8.
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6.2. Environmental precautions

Environmental precautionary measures	Prevent spillage to sewer, waterway or ground.
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6.3. Methods and material for containment and cleaning up

Clean up	Take up liquid spill into absorbent material, e.g.: sand, earth, vermiculite. Shovel into suitable and closed container for disposal.
Other information	Non hazardous waste. Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

Other instructions	For further information refer to section 8 and 13.
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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling	Ensure good ventilation of the work station. Avoid contact with eyes. Wear personal protective equipment. Refer to section 8.
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7.2. Conditions for safe storage, including any incompatibilities

Storage

Store in a dry place. Keep cool. Keep only in original container. Keep container tightly closed.

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

See section 1.2.

SECTION 8: Exposure controls / personal protection**8.1. Control parameters****Control parameters comments**

References: EH40/2005 Workplace exposure limits.

DNEL / PNEC**Substance**

Didecyltrimethylammonium chloride

DNEL

Group: Professional

Route of exposure: Long-term inhalation (systemic)

Value: 18,2 mg/m³

Group: Professional

Route of exposure: Long-term dermal (systemic)

Value: 8,6 mg/kg bw/day

PNEC

Route of exposure: Freshwater

Value: 0,002 mg/l

Route of exposure: Saltwater

Value: 0,0002 mg/l

Route of exposure: Sewage treatment plant STP

Value: 0,595 mg/l

Route of exposure: Freshwater sediments

Value: 2,82 mg/kg dw

Route of exposure: Saltwater sediments

Value: 0,282 mg/kg dw

Route of exposure: Soil

Value: 1,4 mg/kg dw

Value: 0,00029 mg/l

Comments: Intermittent release

Substance

Alkyl (C12-16) dimethylbenzyl ammonium chloride

DNEL

Group: Professional

Route of exposure: Long-term inhalation (systemic)

Value: 3,96 mg/m³

Group: Professional

Route of exposure: Long-term dermal (systemic)

Value: 5,7 mg/kg bw/day

Group: Consumer

Route of exposure: Long-term inhalation (systemic)

PNEC

Value: 1,64 mg/m³**Group:** Consumer**Route of exposure:** Long-term dermal (systemic)**Value:** 3,4 mg/kg bw/day**Group:** Consumer**Route of exposure:** Long-term oral (systemic)**Value:** 3,4 mg/kg bw/day**Route of exposure:** Freshwater**Value:** 0,0009 mg/l**Route of exposure:** Saltwater**Value:** 0,00096 mg/l**Route of exposure:** Sewage treatment plant STP**Value:** 0,4 mg/l**Route of exposure:** Freshwater sediments**Value:** 12,27 mg/kg dw**Route of exposure:** Saltwater sediments**Value:** 13,09 mg/kg dw**Route of exposure:** Soil**Value:** 7 mg/kg dw

8.2. Exposure controls

Precautionary measures to prevent exposure

Appropriate engineering controls

Ensure good ventilation of the work station. Personal protective equipment must be CE marked and should be selected in collaboration with the supplier of such equipment. The recommended protective equipment and the specified standards are indicative. Standards should be of the latest version. Risk assessment of the actual workplace / operation (actual risk) may result in other protective measures.

Eye / face protection

Suitable eye protection

If risk of exposure: Protective goggles. EN 166.

Additional eye protection measures

Possibility of eye rinsing should be found in the workplace.

Hand protection

Suitable gloves type

If repeated or prolonged exposure: Nitrile or neoprene gloves. EN 374.

Breakthrough time: No information available

Glove thickness: No information available.

Skin protection

Suitable protective clothing

Normal work clothes.

Respiratory protection

Respiratory protection, general	Normally not necessary.
Respiratory protection necessary at	If risk of exceeding the occupational exposure limit: Respiratory protection with filter AX-BEK/P2. EN 14387.

Appropriate environmental exposure control

Environmental exposure controls	Prevent spillage to sewer, waterway or ground.
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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	Liquid
Colour	Colourless
Odour	Characteristic
Odour limit	Comments: Not determined.
pH	Value: ~ 7
Melting point / melting range	Value: ~ 0 °C
Boiling point / boiling range	Value: ~ 100 °C
Flash point	Comments: Not relevant.
Evaporation rate	Comments: Ikke bestemt.
Flammability (solid, gas)	Ikke relevant.
Explosion limit	Comments: Not relevant.
Vapour pressure	Comments: Not determined.
Vapour density	Comments: Not determined.
Relative density	Comments: Not determined.
Density	Value: ~ 1000 kg/m ³
Solubility	Comments: Soluble in water.
Partition coefficient: n-octanol/water	Comments: No data available.
Spontaneous combustability	Comments: Not self-igniting.
Decomposition temperature	Comments: Ingen data tilgjengelig.
Viscosity	Value: 1 mPa.s Temperature: 20 °C
Explosive properties	Not explosive.
Oxidising properties	Not classified as oxidizing.

9.2. Other information

Other physical and chemical properties

Comments	Not known.
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

Conditions to avoid

None known.

10.5. Incompatible materials

Materials to avoid

None known.

10.6. Hazardous decomposition products

Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. See also section 5.2.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Substance

Didecyldimethylammonium chloride

Acute toxicity

Effect tested: LD50
Route of exposure: Oral
Value: 238 mg/kg
Animal test species: Rat

Substance

Alkyl (C12-16) dimethylbenzyl ammonium chloride

Acute toxicity

Effect tested: LD50
Route of exposure: Oral
Method: OECD 401
Value: > 300 - 2000 mg/kg
Animal test species: Rat

Other information regarding health hazards

Assessment of acute toxicity, classification

Not classified. (Based on available data, the classification criteria are not met.)

Substance

Didecyldimethylammonium chloride

Skin corrosion / irritation test result

Method: OECD 404
Species: Rabbit
Evaluation result: Causes burns.

Substance	Alkyl (C12-16) dimethylbenzyl ammonium chloride
Skin corrosion / irritation test result	Species: Rabbit Evaluation result: Causes burns.
Assessment of skin corrosion / irritation, classification	Not classified. (Based on available data, the classification criteria are not met.)
Assessment of eye damage or irritation, classification	Not classified. (Based on available data, the classification criteria are not met.)
Substance	Didecyldimethylammonium chloride
Respiratory or skin sensitisation	Method: OECD 406 Species: Guinea pigs Result: Negative Comments: Buehler test
Substance	Alkyl (C12-16) dimethylbenzyl ammonium chloride
Respiratory or skin sensitisation	Method: OECD 406 Species: Guinea pigs Result: Negative Comments: Buehler test
Assessment of respiratory sensitisation, classification	Not classified. (Based on available data, the classification criteria are not met.)
Assessment of skin sensitisation, classification	Not classified. (Based on available data, the classification criteria are not met.)
Substance	Didecyldimethylammonium chloride
Germ cell mutagenicity	Method: OECD 471 Evaluation result: Negative Comments: Ames test Method: OECD 473 Evaluation result: Negative Comments: Chromosome aberration test In vitro. Method: OECD 476 Evaluation result: Negative Comments: In vitro breast cell gene mutation test.
Substance	Alkyl (C12-16) dimethylbenzyl ammonium chloride
Germ cell mutagenicity	Method: OECD 471 Evaluation result: Negative Comments: Ames test Method: OECD 476 Evaluation result: Negative Comments: In vitro breast cell gene mutation test. Method: OECD 473 Evaluation result: Negative Comments: Chromosome aberration test Method: OECD 474 Species: Mouse Evaluation result: Negative Comments: Micronucleus test

Assessment of germ cell mutagenicity, classification	Not classified. (Based on available data, the classification criteria are not met.)
Assessment of carcinogenicity, classification	Not classified. (Based on available data, the classification criteria are not met.)
Assessment of reproductive toxicity, classification	Not classified. (Based on available data, the classification criteria are not met.)
Assessment of specific target organ toxicity - single exposure, classification	Not classified. (Based on available data, the classification criteria are not met.)
Assessment of specific target organ toxicity - repeated exposure, classification	Not classified. (Based on available data, the classification criteria are not met.)
Assessment of aspiration hazard, classification	Not classified. (Based on available data, the classification criteria are not met.)

Symptoms of exposure

In case of ingestion	Not relevant route of exposure.
In case of skin contact	Repeated or prolonged skin contact may cause slight irritation.
In case of inhalation	Vapor/mist: Mild respiratory irritation.
In case of eye contact	May cause slight irritation.

SECTION 12: Ecological information

12.1. Toxicity

Substance	Didecyldimethylammonium chloride
Aquatic toxicity, fish	Toxicity type: Acute Value: > 0,1 - 1 mg/l Effect dose concentration : LC50 Exposure time: 96 hour(s) Species: Danio rerio Method: OECD 203
Substance	Alkyl (C12-16) dimethylbenzyl ammonium chloride
Aquatic toxicity, fish	Toxicity type: Acute Value: > 0,1 - 1 mg/l Effect dose concentration : LC50 Exposure time: 96 hour(s) Species: Lepomis macrochirus
Substance	Didecyldimethylammonium chloride
Aquatic toxicity, algae	Toxicity type: Acute Value: > 0,01 -0,1 mg/l Effect dose concentration : EC50 Exposure time: 72 hour(s) Species: Pseudokirchneriella subcapitata Method: OECD TG 201
	Toxicity type: Acute Value: > 0,01 -0,1 mg/l

Substance

Aquatic toxicity, algae

Effect dose concentration : NOEC
Exposure time: 72 hour(s)
Species: Pseudokirchneriella subcapitata
Method: OECD TG 201

Alkyl (C12-16) dimethylbenzyl ammonium chloride

Toxicity type: Acute
Value: > 0,01 -0,1 mg/l
Effect dose concentration : EC50
Exposure time: 72 hour(s)
Species: Pseudokirchneriella subcapitata
Method: OECD TG 201

Toxicity type: Acute
Value: > 0,001 -0,01 mg/l
Effect dose concentration : NOEC
Exposure time: 72 hour(s)
Species: Pseudokirchneriella subcapitata
Method: OECD TG 201

Substance

Aquatic toxicity, crustacean

Didecyltrimethylammonium chloride

Toxicity type: Acute
Value: > 0,01 -0,1 mg/l
Effect dose concentration : EC50
Exposure time: 48 hour(s)
Species: Daphnia magna
Method: OECD TG 202

Toxicity type: Chronic
Value: > 0,01 - 0,1 mg/l
Effect dose concentration : NOEC
Exposure time: 21 day(s)
Species: Daphnia magna
Method: OECD TG 211

Substance

Aquatic toxicity, crustacean

Alkyl (C12-16) dimethylbenzyl ammonium chloride

Toxicity type: Acute
Value: > 0,01 -0,1 mg/l
Effect dose concentration : EC50
Exposure time: 48 hour(s)
Species: Daphnia magna
Method: Directive 67/548 / EEC, Annex V, C.2.

Toxicity type: Chronic
Value: > 0,01 -0,1 mg/l
Effect dose concentration : NOEC
Exposure time: 21 day(s)
Species: Daphnia magna
Method: OECD TG 211

Ecotoxicity

Not classified as environmentally hazardous chemical.

12.2. Persistence and degradability

Persistence and degradability description/evaluation	Biodegradable.
Biodegradability	Method: OECD 301D Comments: Alkyl (C12-16) dimethylbenzyl ammonium chloride: Readily biodegradable. Didecyldimethylammonium chloride: Readily biodegradable.

12.3. Bioaccumulative potential

Substance	Didecyldimethylammonium chloride
Bioconcentration factor (BCF)	Value: 2,1 Comments: Low potential for bioaccumulation.
Bioaccumulation, evaluation	No bioaccumulation is to be expected.

12.4. Mobility in soil

Mobility	No information available.
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12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	Contains no PBT/vPvB substances.
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12.6. Other adverse effects

Additional ecological information	Avoid release to the environment.
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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Appropriate methods of disposal for the chemical	Remove to an authorized waste treatment plant. The stated EWC code is indicative and must be considered in relation to the actual condition of the chemical. The final code must be determined by the user, based on the actual use of the chemical.
EWC waste code	EWC waste code: 070699 wastes not otherwise specified Classified as hazardous waste: No

SECTION 14: Transport information

Dangerous goods	No
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14.1. UN number

Comments	Not regulated.
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14.2. UN proper shipping name

Comments	Not relevant.
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14.3. Transport hazard class(es)

Comments	Not relevant.
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14.4. Packing group

Comments	Not relevant.
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14.5. Environmental hazards

IMDG Marine pollutant	No
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14.6. Special precautions for user

Special safety precautions for user	Not relevant.
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14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations / legislation specific for the substance or mixture**

Biocides	Yes
References (laws/regulations)	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No 1907/2006 REACH. The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009. The Hazardous Waste Regulations Regulation (EC) No 528/2012 concerning the making available on the market and use of biocidal products.

15.2. Chemical safety assessment

Chemical safety assessment performed	No
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SECTION 16: Other information

List of relevant H-phrases (Section 2 and 3)	H301 Toxic if swallowed. H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects.
Key literature references and sources for data	The safety data sheet is prepared on the basis of information provided by the manufacturer.
Abbreviations and acronyms used	DNEL: Derived-No Effect Level EC50: The effective concentration of substance that causes 50% of the maximum response. LC50: Median lethal concentration. LD50: Median lethal dose. NOEC: No-Observed Effect Concentration PBT: Persistent Bioaccumulative Toxic.

Version

PNEC: Predicted No-Effect Concentration
vPvB: Very Persistent and Very Bioaccumulative
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