

SAFETY DATA SHEET

Fiber ProTector SB

The safety data sheet is in accordance with Commission Regulation (EU) 2020/878 of 18 June 2020 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	16.08.2021
Revision date	30.12.2022

1.1. Product identifier

Product name	Fiber ProTector SB
--------------	--------------------

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

Use of the substance / mixture	Impregnation of textiles.
Professional use	Yes

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	SDS@fiberprotector.com
Website	www.fiberprotector.com
Enterprise No.	975 862 097

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

Classification according to Regulation (EC) No 1272/2008 [CLP / GHS]	Flam. Liq. 2; H225 Eye Irrit. 2; H319
--	--

CLP classification, comments	STOT SE 3; H336
Substance / mixture hazardous properties	Full text of H-statements: see section 16. Highly flammable liquid and vapour. Causes serious eye irritation. May cause drowsiness or dizziness.

2.2. Label elements

Hazard pictograms (CLP)



Composition on the label	Propan-2-ol, n-butyl acetate
Signal word	Danger
Hazard statements	H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.
Precautionary statements	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P243 Take action to prevent static discharge. P261 Avoid breathing vapours. P280 Wear protective gloves / protective clothing / eye protection / face protection. P285 In case of inadequate ventilation wear respiratory protection. P403+P233 Store in a well-ventilated place. Keep container tightly closed.
Supplemental label information	EUH 066 Repeated exposure may cause skin dryness or cracking.

2.3. Other hazards

PBT / vPvB	This substance/mixture does not meet the PBT/vPvB criteria of REACH regulation, annex XIII.
Other hazards	The mixture does not contain endocrine disruptors above 0.1%, according to (EU) 2017/2100 or (EU) 2018/605.

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Substance	Identification	Classification	Contents	Notes
Propan-2-ol	CAS No.: 67-63-0 EC No.: 200-661-7 Index No.: 603-117-00-0 REACH Reg. No.: 01-2119457558-25	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	90 - 100 %	
n-butyl acetate	CAS No.: 123-86-4 EC No.: 204-658-1 Index No.: 607-025-00-1 REACH Reg. No.: 01-2119485493-29	Flam. Liq. 3; H226 STOT SE 3; H336 EUH 066	1 - 10 %	

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.
Inhalation	Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell.
Skin contact	Take off contaminated clothing. Wash with plenty of soap and water. Seek medical attention if irritation persists.
Eye contact	Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion	Rinse mouth. Drink a glass of water or milk. 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: May cause headache, dizziness and drowsiness. Nausea. IF ON SKIN: Repeated exposure may cause skin dryness or cracking. IF IN EYES: May irritate eyes and cause redness and pain. IF SWALLOWED: May cause nausea, vomiting and diarrhea. Headache, dizziness and drowsiness.
----------------------------	---

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	Alcohol resistant foam, powder, carbon dioxide (CO ₂), water fog.
Improper extinguishing media	Do not use straight streams.

5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards	Highly flammable liquid and vapour. Vapour could form explosive mixture with air. The vapours are denser than air and may travel along the ground. Distance ignition possible.
Hazardous combustion products	May include, but not limited to: Carbon oxides (CO, CO ₂). Unspecified organic compounds.

5.3. Advice for firefighters

Personal protective equipment	Wear a self-contained breathing apparatus (SCBA) and appropriate personal protective equipment (PPE).
Other information	Use water spray to cool containers. Move containers away from the fire area if

this can be done without risk.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures

Provide adequate ventilation. Remove ignition sources. No open flames, no sparks, and no smoking. Take precautionary measures against static discharge. Do not breathe vapour. Avoid contact with skin and eyes. Use personal protective equipment as required. Refer to section 8. Evacuate unnecessary personnel.

6.2. Environmental precautions

Environmental precautionary measures

Prevent spillage to sewer, waterway or ground.

6.3. Methods and material for containment and cleaning up

Clean up

Take up liquid spill into absorbent material, e.g.: sand, soil, vermiculite. Shovel into suitable and closed container for disposal. Ventilate spillage area.

Other information

Hazardous waste.

6.4. Reference to other sections

Other instructions

For further information refer to section 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling

Ensure good ventilation of the work station. Do not breathe vapour. Avoid contact with skin and eyes.

Protective safety measures

Safety measures to prevent fire

Keep away from heat / sparks / open flames / hot surfaces. — No smoking. Take precautionary measures against static discharge. Use only non-sparking tools.

Advice on general occupational hygiene

Do not eat, drink or smoke when using this product. Wash hands after each work shift and before eating, smoking or using the toilet. Wash contaminated clothing before using.

7.2. Conditions for safe storage, including any incompatibilities

Storage

Store in a well-ventilated place. Keep cool. Store in a dry place. Keep container tightly closed.

Conditions to avoid

Keep away from heat / sparks / open flames / hot surfaces. — No smoking. Keep away from direct sunlight.

Conditions for safe storage

Advice on storage compatibility

Keep away from: Strong oxidizers.

7.3. Specific end use(s)

Specific use(s)	Refer to section 1.2.
-----------------	-----------------------

SECTION 8: Exposure controls / personal protection

8.1. Control parameters

Substance	Identification	Exposure limits	TWA Year
Propan-2-ol	CAS No.: 67-63-0	Limit value (8 h) : 400 ppm Limit value (8 h) : 999 mg/m ³ Limit value (short term) Value: 500 ppm Limit value (short term) Value: 1250 mg/m ³	
n-butyl acetate	CAS No.: 123-86-4	Limit value (8 h) : 150 ppm Limit value (8 h) : 724 mg/m ³ Limit value (short term) Value: 200 ppm Limit value (short term) Value: 966 mg/m ³	
Control parameters comments	References: EH40/2005 Workplace exposure limits.		

DNEL / PNEC

Substance	Propan-2-ol
DNEL	Group: Professional Route of exposure: Long-term dermal (systemic) Value: 888 mg/kg bw/day Group: Professional Route of exposure: Long-term inhalation (systemic) Value: 500 mg/m ³ Group: Consumer Route of exposure: Long-term dermal (systemic) Value: 319 mg/kg bw/day Group: Consumer Route of exposure: Long-term inhalation (systemic) Value: 89 mg/m ³ Group: Consumer Route of exposure: Long-term oral (systemic) Value: 26 mg/kg bw/day
PNEC	Route of exposure: Freshwater Value: 140.9 mg/l Route of exposure: Saltwater Value: 140.9 mg/l Route of exposure: Sewage treatment plant STP

Substance DNEL	Value: 2251 mg/l
	Route of exposure: Freshwater sediments Value: 552 mg/kg dw
	Route of exposure: Saltwater sediments Value: 552 mg/kg dw
	Route of exposure: Soil Value: 28 mg/kg dw
	Route of exposure: Food products Value: 160 mg/kg Comments: Secondary poisoning
	Value: 140.9 mg/l Comments: Intermittent release, aquatic
	n-butyl acetate
	Group: Consumer Route of exposure: Acute inhalation (local) Value: 300 mg/m ³
	Group: Consumer Route of exposure: Acute oral (systemic) Value: 2 mg/kg bw/day
	Group: Consumer Route of exposure: Acute inhalation (systemic) Value: 300 mg/m ³
	Group: Consumer Route of exposure: Acute dermal (systemic) Value: 6 mg/kg bw/day
	Group: Consumer Route of exposure: Long-term inhalation (local) Value: 35.7 mg/m ³
	Group: Consumer Route of exposure: Long-term oral (systemic) Value: 2 mg/kg bw/day
	Group: Consumer Route of exposure: Long-term inhalation (systemic) Value: 12 mg/m ³
	Group: Consumer Route of exposure: Long-term dermal (systemic) Value: 3.4 mg/kg bw/day
	Group: Professional Route of exposure: Acute inhalation (local) Value: 600 mg/m ³
	Group: Professional Route of exposure: Acute inhalation (systemic)

PNEC	Value: 600 mg/m ³
	Group: Professional
	Route of exposure: Acute dermal (systemic)
	Value: 11 mg/kg bw/day
	Group: Professional
	Route of exposure: Long-term inhalation (local)
	Value: 300 mg/m ³
	Group: Professional
	Route of exposure: Long-term inhalation (systemic)
	Value: 48 mg/m ³
	Group: Professional
	Route of exposure: Long-term dermal (systemic)
	Value: 7 mg/kg bw/day
	Route of exposure: Freshwater
	Value: 180 µg/l
	Route of exposure: Saltwater
	Value: 18 µg/l
	Route of exposure: Freshwater sediments
	Value: 0.981 mg/kg dw
	Route of exposure: Saltwater sediments
	Value: 0.0981 mg/kg dw
	Route of exposure: Sewage treatment plant STP
	Value: 35.6 mg/l
	Route of exposure: Soil
	Value: 0.0903 mg/kg dw
	Value: 360 µg/l
	Comments: Intermittent release, aquatic

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	Tightly fitting safety goggles. EN 166.
Additional eye protection measures	Eye wash station must be available at the workplace.

Hand protection

Suitable gloves type	Information for the product is not available. Propan-2-ol: Nitrile or neoprene gloves. Breakthrough time ≥ 480 min. Glove thickness 0.2 - 0.4 mm. n-butylacetat: Nitrile. Breakthrough time 30 min. Glove thickness 0.4 mm. Butyl. Breakthrough time 60 min. Glove thickness 0.3 mm. EN 374.
----------------------	--

Skin protection

Suitable protective clothing	Wear suitable protective clothing.
------------------------------	------------------------------------

Respiratory protection

Respiratory protection necessary at	If risk of inhalation of vapors/mist, use respiratory protection with filter A/P2. EN 14387.
-------------------------------------	---

Appropriate environmental exposure control

Environmental exposure controls	Prevent spillage to sewer, waterway or ground.
---------------------------------	--

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	Liquid
Colour	Clear. Yellowish
Odour	Fruity.
pH	Comments: Not relevant.
Melting point / melting range	Comments: No data available.
Boiling point / boiling range	Value: ≥ 82 °C
Flash point	Value: 12 °C Comments: Propan-2-ol
Evaporation rate	Comments: No data available.
Flammability	Highly flammable
Explosion limit	Value: 2 - 13 % Comments: Propan-2-ol
Vapour pressure	Value: 4.3 kPa Temperature: 20 °C
Vapour density	Value: 2.08 Comments: Propan-2-ol Reference gas: Air = 1
Particle characteristics	Comments: Not relevant.
Density	Value: 0.785 g/cm ³

Solubility	Comments: Soluble in water.
Partition coefficient: n-octanol/ water	Value: 0.05 Comments: Propan-2-ol
Auto-ignition temperature	Comments: No data available.
Decomposition temperature	Comments: No data available.
Viscosity	Comments: No data available.

9.2. Other information

Other physical and chemical properties

Physical and chemical properties	No additional information available.
----------------------------------	--------------------------------------

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	Vapor could form explosive mixture with air.
------------------------------------	--

10.4. Conditions to avoid

Conditions to avoid	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. Protect from sunlight.
---------------------	---

10.5. Incompatible materials

Materials to avoid	Strong oxidizers.
--------------------	-------------------

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 hazard classes as defined in Regulation (EC) No 1272/2008

Substance	Propan-2-ol
Acute toxicity	Effect tested: LD50 Route of exposure: Oral Method: OECD 401 Value: 5840 mg/kg

	Animal test species: Rat Comments: Literature data Effect tested: LC50 Route of exposure: Inhalation (vapour) Method: OECD 403 Duration: 6 hour(s) Value: > 10000 ppm Animal test species: Rat Effect tested: LD50 Route of exposure: Dermal Method: OECD 402 Value: > 12800 mg/kg Animal test species: Rabbit Comments: Literature data
Substance	n-butyl acetate
Acute toxicity	Effect tested: LD50 Route of exposure: Oral Value: > 6400 mg/kg Animal test species: Rat Effect tested: LD50 Route of exposure: Dermal Value: > 5000 mg/kg Animal test species: Rabbit Effect tested: LD50 Route of exposure: Inhalation. Duration: 4 hour(s) Value: 21.1 mg/l 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	Propan-2-ol
Skin corrosion / irritation test result	Exposure time: 4 hour(s) Species: Rabbit Evaluation result: No skin irritation. Comments: Literature data
Assessment of skin corrosion / irritation, classification	Not classified. (Based on available data, the classification criteria are not met.)
Substance	Propan-2-ol
Eye damage or irritation, test results	Method: OECD 405 Species: Rabbit Evaluation result: Irritating to eyes. Comments: Literature data
Assessment of eye damage or irritation, classification	Causes serious eye irritation.

Substance	Propan-2-ol
Respiratory or skin sensitisation	Method: OECD 406 Species: Guinea pigs Evaluation result: Negative Comments: Literature data
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	Propan-2-ol
Germ cell mutagenicity	Method: OECD 471 Species: Bacteria Evaluation result: Negative Comments: Ames test Literature data Method: Mutagenicity (micronucleus test) Species: Mouse Evaluation result: Negative Comments: Literature data
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	May cause drowsiness or dizziness.
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	May cause nausea, vomiting and diarrhea. May cause headache, dizziness and drowsiness.
In case of skin contact	Repeated exposure may cause skin dryness or cracking.
In case of inhalation	May cause headache, dizziness and drowsiness. Nausea.
In case of eye contact	Irritating to eyes.

11.2 Other information

Endocrine disruption	Not relevant.
----------------------	---------------

SECTION 12: Ecological information

12.1. Toxicity

Substance	Propan-2-ol
Aquatic toxicity, fish	Toxicity type: Acute Value: 1400 mg/l Effect dose concentration: LC50 Exposure time: 96 hour(s) Species: Lepomis macrochirus
Substance	n-butyl acetate
Aquatic toxicity, fish	Toxicity type: Acute Value: 18 mg/l Effect dose concentration: LC50
Substance	n-butyl acetate
Aquatic toxicity, algae	Toxicity type: Acute Value: 674.7 mg/l Effect dose concentration: EC50 Toxicity type: Chronic Value: 196 mg/l Effect dose concentration: NOEC
Substance	Propan-2-ol
Aquatic toxicity, crustacean	Toxicity type: Acute Value: 2285 mg/l Effect dose concentration: EC50 Exposure time: 48 hour(s) Species: Daphnia magna
Substance	n-butyl acetate
Aquatic toxicity, crustacean	Toxicity type: Acute Value: 44 mg/l Effect dose concentration: EC50 Toxicity type: Chronic Value: 23 mg/l Effect dose concentration: NOEC
Ecotoxicity	Not classified as environmentally hazardous chemical.

12.2. Persistence and degradability

Persistence and degradability description/evaluation	No available information on product.
Substance	Propan-2-ol
Biodegradability	Comments: Readily biodegradable.
Substance	n-butyl acetate
Biodegradability	Comments: Readily biodegradable.

12.3. Bioaccumulative potential

Substance	Propan-2-ol
Bioconcentration factor (BCF)	Comments: Log Pow = 0.05

Substance	n-butyl acetate
Bioconcentration factor (BCF)	Value: 15.3 Comments: Log Pow = 2.3
Bioaccumulation, comments	No available information on product.

12.4. Mobility in soil

Mobility	No information available.
----------	---------------------------

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	Contains no PBT/vPvB substances.
------------------------------------	----------------------------------

12.6. Endocrine disrupting properties

Endocrine disrupting properties	Not relevant.
---------------------------------	---------------

12.7. Other adverse effects

Additional ecological information	Avoid release to the environment.
-----------------------------------	-----------------------------------

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Appropriate methods of disposal for the chemical	Deliver as hazardous waste to approved handler or collector. The EWC code is indicative. The user must enter the correct LoW code if the use differs.
EWC waste code	EWC waste code: 140602 other halogenated solvents and solvent mixtures Classified as hazardous waste: Yes

SECTION 14: Transport information

Dangerous goods	Yes
-----------------	-----

14.1. UN number

ADR/RID/ADN	1219
IMDG	1219
ICAO/IATA	1219

14.2. UN proper shipping name

Proper shipping name English	ISOPROPANOL
ADR/RID/ADN	ISOPROPANOL
ADR/RID/ADN	ISOPROPANOL
IMDG	ISOPROPANOL
ICAO/IATA	ISOPROPANOL

14.3. Transport hazard class(es)

ADR/RID/ADN	3
Classification code ADR/RID/ADN	F1
IMDG	3
ICAO/IATA	3

14.4. Packing group

ADR/RID/ADN	II
IMDG	II
ICAO/IATA	II

14.5. Environmental hazards

IMDG Marine pollutant	No
-----------------------	----

14.6. Special precautions for user

Special safety precautions for user	No information.
-------------------------------------	-----------------

14.7. Maritime transport in bulk according to IMO instruments

Product name	ISOPROPANOL
--------------	-------------

Additional information

Hazard label ADR/RID/ADN	3
Hazard label IMDG	3
Hazard label ICAO/IATA	3

ADR/RID Other information

Tunnel restriction code	D/E
Limited quantity	1 L
Excepted quantity	E2
Transport category	2
Hazard No.	33

IMDG Other information

EmS	F-E, S-D
-----	----------

SECTION 15: Regulatory information

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

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

15.2. Chemical safety assessment

Chemical safety assessment performed No

SECTION 16: Other information

List of relevant H-phrases (Section 2 and 3)	EUH 066 Repeated exposure may cause skin dryness or cracking. H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.
CLP classification, comments	Classification method: Flam. Liq 2; H225 - Based on test data Eye Irrit. 2; H319 - Calculation method STOT SE 3; H336 - Calculation method
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. PBT: Persistent Bioaccumulative Toxic. PNEC: Predicted No-Effect Concentration. vPvB: Very Persistent and Very Bioaccumulative.
Information added, deleted or revised	Relevant changes compared to the previous version of the safety data sheet are indicated with verticle lines in the left margin.
Version	2
Prepared by	SDS-Chemie, Bente Frogner.