



SAFETY DATA SHEET

Caretex Prof F Liquid Starch

According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended.

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

1.1. Product identifier

Product name	Caretex Prof F Liquid Starch
Product number	6840/23327
UFI	UFI: T7XK-90TT-V001-NPKH

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

Identified uses	Starch
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1.3. Details of the supplier of the safety data sheet

Supplier	Cole & Wilson Ltd Rutland Street Bradford West Yorkshire BD4 7EA T:01274 393286 F: 01274 309143 info@colewilson.co.uk
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1.4. Emergency telephone number

Emergency telephone	Tel: 01274 393286, Fax: 01274 309143 (8.30am-5pm Monday to Friday)
National emergency telephone number	(GB) NHS Direct: 111 National Poisons Information Service Tel: +44 344 892 0111 (UK) - Medical Professionals Only National Poisons Information Centre Tel: +353 (01) 809 2566 (Ireland) - Healthcare Professionals only (24 hour service)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (SI 2019 No. 720)

Physical hazards	Not Classified
Health hazards	Not Classified
Environmental hazards	Aquatic Chronic 3 - H412

2.2. Label elements

Hazard statements	EUH208 Contains octhilinone (ISO), 1,2-benzisothiazol-3(2H)-one, 2-methylisothiazol-3(2H)-one, reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction. H412 Harmful to aquatic life with long lasting effects.
Precautionary statements	P273 Avoid release to the environment. P262 Do not get in eyes, on skin, or on clothing. P501 Dispose of contents/ container in accordance with national regulations.
Detergent labelling	Contains 2-OCTYL-2H-ISOTHIAZOL-3-ONE, 1,2-BENZOISOTHIAZOL-3(2H)-ONE, 2-METHYL-2H-ISOTHIAZOL-3-ONE

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

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SECTION 3: Composition/information on ingredients

3.2. Mixtures

<p>2,2'-OXYBISETHANOL 1-3%</p> <p>CAS number: 111-46-6 EC number: 203-872-2</p> <p>Classification Acute Tox. 4 - H302 STOT RE 2 - H373</p>
<p>octhilinone (ISO) <1%</p> <p>CAS number: 26530-20-1 EC number: 247-761-7</p> <p>M factor (Acute) = 10 M factor (Chronic) = 1</p> <p>Classification Acute Tox. 4 - H302 Acute Tox. 3 - H311 Acute Tox. 3 - H331 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410</p>
<p>1,2-benzisothiazol-3(2H)-one <1%</p> <p>CAS number: 2634-33-5 EC number: 220-120-9</p> <p>M factor (Acute) = 1</p> <p>Classification Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Aquatic Acute 1 - H400</p>
<p>2-methylisothiazol-3(2H)-one <1%</p> <p>CAS number: 2682-20-4 EC number: 220-239-6</p> <p>M factor (Acute) = 10 M factor (Chronic) = 1</p> <p>Classification Acute Tox. 3 - H301 Acute Tox. 3 - H311 Acute Tox. 2 - H330 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1A - H317 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410</p>

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reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)		<1%
CAS number: 55965-84-9	EC number: 911-418-6	
M factor (Acute) = 100	M factor (Chronic) = 100	
Classification Acute Tox. 3 - H301 Acute Tox. 3 - H311 Acute Tox. 3 - H331 Skin Corr. 1C - H314 Skin Sens. 1A - H317 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410		

The full text for all hazard statements is displayed in Section 16.

Composition comments No classified ingredients, or those having occupational exposure limits, present above the levels of disclosure.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information	Get medical attention if symptoms are severe or persist. Remove affected person from source of contamination.
Inhalation	Unlikely route of exposure as the product does not contain volatile substances. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.
Ingestion	Never give anything by mouth to an unconscious person. Do not induce vomiting. Promptly get affected person to drink large volumes of water to dilute the swallowed chemical. Give milk instead of water if readily available. Get medical attention immediately.
Skin contact	Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention promptly if symptoms occur after washing.
Eye contact	Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention immediately. Continue to rinse.

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

General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	Spray/mists may cause respiratory tract irritation. This is unlikely to occur but symptoms similar to those of ingestion may develop.
Ingestion	May cause discomfort if swallowed. May cause stomach pain or vomiting.
Skin contact	May cause skin irritation. Prolonged or repeated contact with skin may cause irritation, redness and dermatitis.
Eye contact	May cause eye irritation.

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

Notes for the doctor Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards No unusual fire or explosion hazards noted.

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Hazardous combustion products Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.

5.3. Advice for firefighters

Protective actions during firefighting If risk of water pollution occurs, notify appropriate authorities. Control run-off water by containing and keeping it out of sewers and watercourses.

Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Environmental precautions Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Absorb in vermiculite, dry sand or earth and place into containers. Wash thoroughly after dealing with a spillage. Dispose of contents/container in accordance with national regulations.

6.4. Reference to other sections

Reference to other sections Wear protective clothing as described in Section 8 of this safety data sheet. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Handle all packages and containers carefully to minimise spills. Keep container tightly sealed when not in use.

Advice on general occupational hygiene Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Keep above the chemical's freezing point to avoid rupturing the container. Keep container tightly closed, in a cool, well ventilated place.

Storage class Chemical storage.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

2,2'-OXYBISETHANOL

Long-term exposure limit (8-hour TWA): WEL 23 ppm 101 mg/m³

WEL = Workplace Exposure Limit.

Sorbitol (CAS: 68425-17-2)

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DNEL

Workers - Dermal; Long term systemic effects: 2000 mg/kg
 Workers - Inhalation; Long term systemic effects: 5 mg/m³
 General population - Dermal; Long term systemic effects: 2000 mg/kg
 General population - Inhalation; Long term systemic effects: 0.89 mg/m³
 General population - Oral; systemic effects: 200 mg/kg

PNEC

- Fresh water; 0.973 mg/l
- marine water; 0.0973 mg/l
- Intermittent release; 9.73 mg/l
- STP; 66.7 mg/l
- Sediment (Freshwater); 3.63 mg/kg
- Sediment (Marinewater); 0.363 mg/kg
- Soil; 0.15 mg/kg

2,2'-OXYBISETHANOL (CAS: 111-46-6)

DNEL

Industry - Dermal; Long term : 106 mg/kg/day
 Industry - Inhalation; Long term : 60 mg/m³

PNEC

Fresh water; 10 mg/l
 marine water; Long term 1 mg/l
 Sediment; Long term 20.9 mg/kg
 Soil; Long term 1.53 mg/kg
 STP; Long term 10 mg/l

octamethylcyclotetrasiloxane (CAS: 556-67-2)

DNEL

Workers - Inhalation; Long term systemic effects: 73 mg/m³
 Workers - Inhalation; Short term systemic effects: 73 mg/m³
 Workers - Inhalation; Long term local effects: 73 mg/m³
 Workers - Inhalation; Short term local effects: 73 mg/m³
 Consumer - Inhalation; Long term systemic effects: 13 mg/m³
 Consumer - Inhalation; Short term systemic effects: 13 mg/m³
 Consumer - Inhalation; Long term local effects: 13 mg/m³
 Consumer - Inhalation; Short term local effects: 13 mg/m³
 Consumer - Oral; Long term systemic effects: 3.7 mg/kg bw/day
 Consumer - Oral; Short term systemic effects: 3.7 mg/kg bw/day

PNEC

Fresh water; 0.44 µg/l
 marine water; 0.044 µg/l
 Sediment (Freshwater); 0.59 mg/kg dwt
 Sediment (Marinewater); 0.059 mg/kg dwt
 Soil; 0.15 mg/kg dwt
 STP; 10 mg/l
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8.2. Exposure controls

Protective equipment



Appropriate engineering controls Provide adequate ventilation if the airborne contamination exceeds occupational exposure limits

Eye/face protection Safety glasses with side-shields (EN 166).

Hand protection Chemical resistant PVC/Nitrilrubber gloves (to European standard EN 374 or equivalent). Thickness: 0,4 mm. Penetration time: >480 min (level 6). The selection of specific gloves for a specific application and time of use in a working area, should also take into account other factors on the working space, such as (but not limited to): other chemicals that are possibly used, physical requirements (protection against cutting/drilling, skill, thermal protection), and the instructions/specification of the supplier of gloves.

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Other skin and body protection	Wear suitable protective clothing (EN14605)
Hygiene measures	Do not eat, drink or smoke when using this product.
Respiratory protection	Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	White.
Odour	Slight.
Odour threshold	No information available.
pH	pH (concentrated solution): 3.5-5 (10% solution) pH (diluted solution): 6-11
Melting point	Freezing Point Below 5°C. Keep above this temperature
Initial boiling point and range	No information available.
Flash point	Not applicable.
Upper/lower flammability or explosive limits	Not applicable.
Vapour pressure	No information available.
Vapour density	No information available.
Relative density	1.15 @ 20°C
Bulk density	Not applicable.
Solubility(ies)	Miscible with water.
Auto-ignition temperature	Not applicable.
Decomposition Temperature	No information available.
Viscosity	No information available.

9.2. Other information

Other information	Not available.
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	The following materials may react with the product: Alkalis. Oxidising agents. Reducing agents.
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10.2. Chemical stability

Stability	No particular stability concerns. Avoid contact with alkalis.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur.
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10.4. Conditions to avoid

Conditions to avoid	Avoid freezing.
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10.5. Incompatible materials

Materials to avoid	Strong alkalis. Oxidising agents. Reducing agents.
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10.6. Hazardous decomposition products

Hazardous decomposition products	Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.
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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects	Not regarded as a health hazard under current legislation.
Acute toxicity - oral	
Notes (oral LD ₅₀)	Based on available data the classification criteria are not met.
ATE oral (mg/kg)	31,446.54
Acute toxicity - dermal	
Notes (dermal LD ₅₀)	Based on available data the classification criteria are not met.
Acute toxicity - inhalation	
Notes (inhalation LC ₅₀)	Based on available data the classification criteria are not met.
Skin corrosion/irritation	
Animal data	Based on available data the classification criteria are not met.
Serious eye damage/irritation	
Serious eye damage/irritation	Based on available data the classification criteria are not met.
Respiratory sensitisation	
Respiratory sensitisation	Based on available data the classification criteria are not met.
Skin sensitisation	
Skin sensitisation	Based on available data the classification criteria are not met.
Germ cell mutagenicity	
Genotoxicity - in vitro	Based on available data the classification criteria are not met.
Carcinogenicity	
Carcinogenicity	Based on available data the classification criteria are not met.
IARC carcinogenicity	None of the ingredients are listed or exempt.
Reproductive toxicity	
Reproductive toxicity - fertility	Based on available data the classification criteria are not met.
Reproductive toxicity - development	Based on available data the classification criteria are not met.
Specific target organ toxicity - single exposure	
STOT - single exposure	Not classified as a specific target organ toxicant after a single exposure.
Specific target organ toxicity - repeated exposure	
STOT - repeated exposure	Not classified as a specific target organ toxicant after repeated exposure.
Aspiration hazard	
Aspiration hazard	Based on available data the classification criteria are not met.
General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	Spray/mists may cause respiratory tract irritation. This is unlikely to occur but symptoms similar to those of ingestion may develop.
Ingestion	May cause discomfort if swallowed. May cause stomach pain or vomiting.
Skin contact	May cause skin irritation. Prolonged or repeated contact with skin may cause irritation, redness and dermatitis.
Eye contact	May cause eye irritation.

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Acute and chronic health hazards This product may cause skin and eye irritation. Repeated exposure may cause chronic eye irritation. Mild dermatitis, allergic skin rash.

Route of exposure Skin and/or eye contact
Inhalation
Ingestion

Toxicological information on ingredients.

Sorbitol

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 5,001.0

Species Rat

ATE oral (mg/kg) 5,001.0

2,2'-OXYBISETHANOL

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 12,565.0

Species Rat

ATE oral (mg/kg) 500.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 13,330.0

Species Rabbit

ATE dermal (mg/kg) 13,330.0

POLYSACCHARIDE

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 5,001.0

Species Rat

ATE oral (mg/kg) 5,001.0

Siloxanes and Silicones, 3-[(2-aminoethyl)amino]propyl Me, di-Me

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 5,001.0

Species Rat

ATE oral (mg/kg) 5,001.0

octhlinone (ISO)

Acute toxicity - oral

ATE oral (mg/kg) 500.0

Acute toxicity - dermal

ATE dermal (mg/kg) 300.0

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Acute toxicity - inhalation

ATE inhalation (vapours mg/l) 3.0

Isotridecanol, ethoxylated

Acute toxicity - oral

Acute toxicity oral (LD₅₀
mg/kg) 1,250.0

Species Rat

ATE oral (mg/kg) 1,250.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀
mg/kg) 2,001.0

Species Rat

ATE dermal (mg/kg) 2,001.0

Alcohols, C16-18, ethoxylated

Acute toxicity - oral

Acute toxicity oral (LD₅₀
mg/kg) 2,001.0

Species Rat

ATE oral (mg/kg) 2,001.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀
mg/kg) 2,001.0

Species Rat

ATE dermal (mg/kg) 2,001.0

Isotridecanol, ethoxylated

Acute toxicity - oral

Acute toxicity oral (LD₅₀
mg/kg) 5,001.0

Species Rat

ATE oral (mg/kg) 5,001.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀
mg/kg) 2,001.0

Species Rat

ATE dermal (mg/kg) 2,001.0

Oxirane, 2-methyl-polymer with oxirane, mono (2-propylheptyl) ether

Acute toxicity - oral

Acute toxicity oral (LD₅₀
mg/kg) 1,150.0

Species Rat

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ATE oral (mg/kg) 1,150.0

1,2-benzisothiazol-3(2H)-one

Acute toxicity - oral

ATE oral (mg/kg) 500.0

Acute toxicity - inhalation

ATE inhalation (vapours mg/l) 0.5

octamethylcyclotetrasiloxane

Acute toxicity - oral

Acute toxicity oral (LD₅₀
mg/kg) 4,800.0

Species Rat

ATE oral (mg/kg) 4,800.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀
mg/kg) 2,401.0

Species Rat

ATE dermal (mg/kg) 2,401.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀
dust/mist mg/l) 36.0

Species Rat

ATE inhalation (dusts/mists
mg/l) 36.0

Decamethylcyclopentasiloxane

Acute toxicity - oral

Acute toxicity oral (LD₅₀
mg/kg) 5,001.0

Species Rat

ATE oral (mg/kg) 5,001.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀
mg/kg) 2,001.0

Species Rabbit

ATE dermal (mg/kg) 2,001.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀
dust/mist mg/l) 8.67

Species Rat

ATE inhalation (dusts/mists
mg/l) 8.67

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2-methylisothiazol-3(2H)-one

Acute toxicity - oral

ATE oral (mg/kg) 100.0

Acute toxicity - dermal

ATE dermal (mg/kg) 300.0

Acute toxicity - inhalation

ATE inhalation (dusts/mists
mg/l) 0.05

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Acute toxicity - oral

ATE oral (mg/kg) 100.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀
mg/kg) 600.0

Species Rat

ATE dermal (mg/kg) 600.0

Acute toxicity - inhalation

ATE inhalation (dusts/mists
mg/l) 0.5

SECTION 12: Ecological information

Ecotoxicity Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.

12.1. Toxicity

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

Ecological information on ingredients.

2,2'-OXYBISETHANOL

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: >1000 mg/l, Fish

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 48900 mg/l, Daphnia

POLYSACCHARIDE

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 490 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 980 mg/l, Daphnia magna

octhilinone (ISO)

Acute aquatic toxicity

LE(C)₅₀ 0.01 < L(E)C₅₀ ≤ 0.1

M factor (Acute) 10

Acute toxicity - fish LC₅₀, 96 hours: 0.2 mg/l, Oncorhynchus mykiss (Rainbow trout)

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Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 2.6 mg/l, Daphnia
Acute toxicity - aquatic plants	IC ₅₀ , 72 hours: 0.5 mg/l, Desmodesmus subspicatus
Acute toxicity - microorganisms	EC ₂₀ , 0.5 hours: 10.4 mg/l, Activated sludge EC ₂₀ , 3 hours: 7.3 mg/l, Activated sludge
Chronic aquatic toxicity	
M factor (Chronic)	1

Isotridecanol, ethoxylated

Acute aquatic toxicity

Acute toxicity - fish	LC ₅₀ , 96 hours: >1-10 mg/l, Danio rerio (zebra fish)
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 7.07 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC ₅₀ , 72 hours: >10 mg/l, Desmodesmus subspicatus
Acute toxicity - microorganisms	EC ₅₀ , 17 hours: >1000 mg/l, PSEUDOMONAS PUTIDA

Isotridecanol, ethoxylated

Acute aquatic toxicity

Acute toxicity - fish	LC ₅₀ , 96 hours: >1-10 mg/l, Oncorhynchus mykiss (Rainbow trout)
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: >1-10 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC ₅₀ , 72 hours: >1-10 mg/l, Algae EC ₁₀ , 72 hours: >1-10 mg/l, Algae
Acute toxicity - microorganisms	EC ₅₀ , 16 hours: >1000 mg/l, Activated sludge

Chronic aquatic toxicity

Chronic toxicity - aquatic invertebrates	NOEC, : 1 mg/l, Daphnia magna
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Oxirane, 2-methyl-polymer with oxirane, mono (2-propylheptyl) ether

Acute aquatic toxicity

Acute toxicity - fish	LC ₅₀ , 96 hours: >10-100 mg/l, Brachydanio rerio (Zebra Fish)
Acute toxicity - aquatic invertebrates	LC ₅₀ , 48 hours: >10-100 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC ₅₀ , : >10-100 mg/l, Scenedesmus subspicatus EC ₁₀ , : >1 mg/l, Desmodesmus subspicatus

1,2-benzisothiazol-3(2H)-one

Acute aquatic toxicity

LE(C) ₅₀	0.1 < L(E)C ₅₀ ≤ 1
M factor (Acute)	1
Acute toxicity - fish	LC ₅₀ , 96 hours: 1.6 mg/l, Oncorhynchus mykiss (Rainbow trout)
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 2.94 mg/l, Daphnia magna

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Acute toxicity - aquatic plants EC₅₀, 72 hours: 0.11 mg/l, Selenastrum capricornutum

Acute toxicity - microorganisms EC₂₀, 3 hours: 3.3 mg/l, Activated sludge

octamethylcyclotetrasiloxane

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: >0.022 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 0.015 mg/l, Daphnia magna

Decamethylcyclopentasiloxane

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: >16 micrograms/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic invertebrates NOEC, 48 hours: >2.9 micrograms/l, Daphnia magna

Acute toxicity - aquatic plants EC₅₀, 96 hours: >12 micrograms/l, Pseudokirchneriella subcapitata

Acute toxicity - microorganisms EC₅₀, 3 hours: >2000 mg/l, Activated sludge

Chronic aquatic toxicity

Chronic toxicity - fish early life stage NOEC, 90 days: >14 micrograms/l, Oncorhynchus mykiss (Rainbow trout)

Chronic toxicity - aquatic invertebrates NOEC, 21 days: >15 micrograms/l, Daphnia magna

2-methylisothiazol-3(2H)-one

Acute aquatic toxicity

LE(C)₅₀ 0.1 < L(E)C₅₀ ≤ 1

M factor (Acute) 10

Acute toxicity - fish LC₅₀, 96 hours: 6 (Rainbow Trout) mg/l, Fish

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 1.68 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC₅₀, 72 hours: 0.157 mg/l, Pseudokirchneriella subcapitata

Acute toxicity - microorganisms EC₂₀, 3 hours: 2.8 mg/l, Activated sludge
EC₅₀, 3 hours: 34.6 mg/l, Activated sludge

Chronic aquatic toxicity

M factor (Chronic) 1

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Acute aquatic toxicity

LE(C)₅₀ 0.001 < L(E)C₅₀ ≤ 0.01

M factor (Acute) 100

Acute toxicity - fish LC₅₀, 96 hours: 0.58 mg/l, Danio rerio (zebra fish)

LC₅₀, 96 hours: 0.22 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 1.02 mg/l, Daphnia magna

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Acute toxicity - aquatic plants	IC ₅₀ , 72 hours: 0.379 mg/l, Pseudokirchneriella subcapitata NOEC, 72 hours: 0.0012 mg/l, Pseudokirchneriella subcapitata EC ₅₀ , 48 hours: 0.0052 mg/l, Skeletonema costatum NOEC, 48 hours: 0.00064 mg/l, Skeletonema costatum
Acute toxicity - microorganisms	EC ₂₀ , 3 hours: 0.97 mg/l, Activated sludge EC ₅₀ , 3 hours: 7.92 mg/l, Activated sludge
Chronic aquatic toxicity	
M factor (Chronic)	100
Chronic toxicity - fish early life stage	NOEC, 28 days: 0.098 mg/l, Oncorhynchus mykiss (Rainbow trout)
Chronic toxicity - aquatic invertebrates	NOEC, 21 days: 0.004 mg/l, Daphnia

12.2. Persistence and degradability

Persistence and degradability The surfactant(s) contained in this product complies(comply) with the biodegradability criteria as laid down in The Detergents Regulations (as amended).

Ecological information on ingredients.

POLYSACCHARIDE

Biological oxygen demand	~ 200 mg O ₂ /g
Chemical oxygen demand	~ 1600 mg O ₂ /g

octhilinone (ISO)

Biodegradation	Activated sludge - Degradation >83%: Isotridecanol, ethoxylated
Biodegradation	- Degradation 60%: 28 days Isotridecanol, ethoxylated
Biodegradation	- Degradation >60%: 28 days Oxirane, 2-methyl-polymer with oxirane, mono (2-propylheptyl) ether
Biodegradation	- Degradation >60%: 28 days

12.3. Bioaccumulative potential

Bioaccumulative potential The product does not contain any substances expected to be bioaccumulating.

Ecological information on ingredients.

2,2'-OXYBISETHANOL

Bioaccumulative potential	BCF: 100, octhilinone (ISO)
Partition coefficient	log Kow: ~ 2.92 octamethylcyclotetrasiloxane
Bioaccumulative potential	BCF: 12400, Pimephales promelas (Fat-head Minnow)
Partition coefficient	log Pow: 5.1

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Decamethylcyclopentasiloxane

Partition coefficient log Pow: 8.023

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Bioaccumulative potential BCF: ~ 3.16,

Partition coefficient log Kow: ≤ 0.71

12.4. Mobility in soil

Mobility The product is soluble in water.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods Dispose of in accordance with Local Authority regulations as special waste according to The Control of Special Waste Regulations 1996.

EURAL Code

SECTION 14: Transport information

General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant
No.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

SECTION 15: Regulatory information

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

Caretex Prof F Liquid Starch

Danish product registration number

Danish national regulations

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

Inventories

EU - EINECS/ELINCS

None of the ingredients are listed or exempt.

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
 ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.
 RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.
 IATA: International Air Transport Association.
 ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.
 IMDG: International Maritime Dangerous Goods.
 CAS: Chemical Abstracts Service.
 ATE: Acute Toxicity Estimate.
 LC50: Lethal Concentration to 50 % of a test population.
 LD50: Lethal Dose to 50% of a test population (Median Lethal Dose).
 EC₅₀: 50% of maximal Effective Concentration.
 PBT: Persistent, Bioaccumulative and Toxic substance.
 vPvB: Very Persistent and Very Bioaccumulative.

Revision comments

Revision is due to a preservative change

Revision date

07/06/2021

Revision

8

Supersedes date

31/03/2021

SDS number

6840/23327

Hazard statements in full

H301 Toxic if swallowed.
 H302 Harmful if swallowed.
 H311 Toxic in contact with skin.
 H314 Causes severe skin burns and eye damage.
 H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H318 Causes serious eye damage.
 H330 Fatal if inhaled.
 H331 Toxic if inhaled.
 H373 May cause damage to organs through prolonged or repeated exposure if swallowed.
 H400 Very toxic to aquatic life.
 H410 Very toxic to aquatic life with long lasting effects.
 H412 Harmful to aquatic life with long lasting effects.
 EUH208 Contains octhlinone (ISO), 1,2-benzisothiazol-3(2H)-one, 2-methylisothiazol-3(2H)-one, reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.