FELEMA - FOAMCLEAN E

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Issue date: 05/01/2023 Revision date: 05/01/2023
Supersedes version of: 17/02/2022 Version: 2.0

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

1.1. Product identifier

Product form : Mixture
Product name : FELEMA - FOAMCLEAN E
UFI : 2H6W-N05N-Q00G-R425
Product code : 7000802500
Type of product : Detergent

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

1.2.1. Relevant identified uses

Main use category : Professional use

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Felema GmbH
Bahnhofstr. 12
CH 8712 Stäfa, Schweiz
T +41 (0) 44 926 23 05 E-Mail: info@felema.com www.felema.com

1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
Switzerland	Tox Info Suisse	Freiestrasse 16 8032 Zürich	145	(from abroad: +41 44 251 51 51) Information: +41 44 251 66 66

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 1	H318
Hazardous to the aquatic environment – Chronic Hazard, Category 3	H412

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

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :

GHS05

Signal word (CLP) : Danger
Contains : D-Glucopyranose, oligomeric, C10-16 alkyl glycosides, Amines, coco alkyldimethyl, N-oxides, D-Glucopyranose, oligomers, decyl octyl glycosides

Hazard statements (CLP)	:	H315 - Causes skin irritation. H318 - Causes serious eye damage. H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements (CLP)	:	P264 - Wash hands, forearms and face thoroughly after handling. P280 - Wear protective gloves, eye protection, face protection. P302+P352 - IF ON SKIN: Wash with plenty of water. P305+P351+P338+P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER, a doctor. P332+P313 - If skin irritation occurs: Get medical advice/attention.
EUH-statements	:	EUH208 - Contains SUBTILISIN, 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.

2.3. Other hazards

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

Component	
2-methoxymethylethoxypropanol (34590-94-8)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
3-butoxypropan-2-ol; propylene glycol monobutyl ether (5131-66-8)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Amines, coco alkyldimethyl, N-oxides (308062-28-4)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
subtilisin (9014-01-1)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
2-methoxymethylethoxypropanol substance with a Community workplace exposure limit	CAS-No.: 34590-94-8 EC-No.: 252-104-2 REACH-no: 01-2119450011-60	5 - 15	Not classified
Alkyl polyglucoside C10-16	CAS-No.: 110615-47-9 REACH-no: 01-2119489418-23	5 - 15	Skin Irrit. 2, H315 Eye Dam. 1, H318
3-butoxypropan-2-ol; propylene glycol monobutyl ether	CAS-No.: 5131-66-8 EC-No.: 225-878-4 EC Index-No.: 603-052-00-8 REACH-no: 01-2119475527-28	1 - 5	Eye Irrit. 2, H319 Skin Irrit. 2, H315

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Amines, coco alkyldimethyl, N-oxides	CAS-No.: 308062-28-4 EC-No.: 931-292-6 REACH-no: 01-2119490061-47	1 - 5	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
D-Glucopyranose, oligomers, decyl octyl glycosides	CAS-No.: 68515-73-1 EC-No.: 500-220-1 REACH-no: 01-2119488530-36	1 - 5	Eye Dam. 1, H318
subtilisin	CAS-No.: 9014-01-1 EC-No.: 232-752-2 EC Index-No.: 647-012-00-8 REACH-no: 01-2119480434-38	0.1 - 1	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Resp. Sens. 1, H334 STOT SE 3, H335 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 2, H411
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	CAS-No.: 55965-84-9 EC Index-No.: 613-167-00-5	<0.01	Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Oral), H301 Skin Corr. 1B, H314 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Specific concentration limits:		
Name	**Product identifier**	**Specific concentration limits**
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	CAS-No.: 55965-84-9 EC Index-No.: 613-167-00-5	(0,0015 ≤C < 100) Skin Sens. 1, H317 (0,06 ≤C < 0,6) Skin Irrit. 2, H315 (0,06 ≤C < 0,6) Eye Irrit. 2, H319 (0,6 ≤C < 100) Skin Corr. 1B, H314

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

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : If on skin, take off contaminated clothing. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : Remove victim to fresh air. Allow affected person to breathe fresh air.

First-aid measures after skin contact : Rinse with plenty of water.

First-aid measures after eye contact : Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing.

First-aid measures after ingestion : Rinse mouth.

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

Symptoms/effects after inhalation : Cough.

Symptoms/effects after skin contact : Repeated or prolonged skin contact may cause irritation.

Symptoms/effects after eye contact : Redness, pain. Blurred vision.

Symptoms/effects after ingestion : Abdominal pain, nausea.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : All extinguishing media allowed.
Unsuitable extinguishing media : None.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Not combustible.
Explosion hazard : Product is not explosive.
Reactivity in case of fire : The product is stable at normal handling and storage conditions.

5.3. Advice for firefighters

Precautionary measures fire : Wear proper protective equipment.
Firefighting instructions : Exercise caution when fighting any chemical fire.
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Ensure adequate ventilation.

6.1.1. For non-emergency personnel

Protective equipment : Personal protection. See Section 8.
Emergency procedures : Evacuate area.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection. See Section 8.
Emergency procedures : Mark the danger area. Stop leak if safe to do so.

6.2. Environmental precautions

Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

For containment : Dike for recovery or absorb with appropriate material.
Methods for cleaning up : Dilute residue with water. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.
Other information : Spill area may be slippery.

6.4. Reference to other sections

See Section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product.
Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container closed when not in use.
Storage temperature : 4 – 25 °C
Heat and ignition sources : Store away from direct sunlight or other heat sources.
Special rules on packaging : Keep only in original container.
Packaging materials : PEHD.

7.3. Specific end use(s)

Cleaning/washing agents.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

2-methoxymethylethoxypropanol (34590-94-8)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	(2-Methoxymethylethoxy)-propanol
IOEL TWA	308 mg/m³
IOEL TWA [ppm]	50 ppm
Remark	Skin
Austria - Occupational Exposure Limits	
MAK (OEL TWA)	307 mg/m³
MAK (OEL TWA) [ppm]	50 ppm
Belgium - Occupational Exposure Limits	
Local name	Dipropylèneglycolmonométhyléther # Dipropyleenglycolmonomethylether
OEL TWA	308 mg/m³
OEL TWA [ppm]	50 ppm
Remark	D: La mention D signifie que la résorption de l'agent, via la peau, les muqueuses ou les yeux, constitue une partie importante de l'exposition totale. Cette résorption peut se faire tant par contact direct que par présence de l'agent dans l'air. # De vermelding D betekent dat de opname van het agens via de huid, de slijmvliezen of de ogen een belangrijk deel van de totale blootstelling vormt. Deze opname kan het gevolg zijn van zowel direct contact als zijn aanwezigheid in de lucht.
Denmark - Occupational Exposure Limits	
OEL STEL	303 mg/m³
OEL STEL [ppm]	50 ppm
France - Occupational Exposure Limits	
VLE (OEL C/STEL)	308 mg/m³
VLE (OEL C/STEL) [ppm]	50 ppm
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA) [1]	310 mg/m³
AGW (OEL TWA) [2]	50 ppm
Hungary - Occupational Exposure Limits	
CK (OEL STEL)	308 mg/m³
Latvia - Occupational Exposure Limits	
OEL TWA	308 mg/m³
OEL TWA [ppm]	50 ppm
Netherlands - Occupational Exposure Limits	
TGG-8u (OEL TWA)	300 mg/m³

2-methoxymethylethoxypropanol (34590-94-8)	
TGG-8u (OEL TWA) [ppm]	50 ppm
Poland - Occupational Exposure Limits	
NDS (OEL TWA)	240 mg/m³
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA) [1]	308 mg/m³
VLA-ED (OEL TWA) [2]	50 ppm
Sweden - Occupational Exposure Limits	
NGV (OEL TWA)	308 mg/m³
NGV (OEL TWA) [ppm]	50 ppm
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA) [1]	308 mg/m³
WEL TWA (OEL TWA) [2]	50 ppm
Switzerland - Occupational Exposure Limits	
MAK (OEL TWA) [1]	300 mg/m³
MAK (OEL TWA) [2]	50 ppm
KZGW (OEL STEL)	300 mg/m³
KZGW (OEL STEL) [ppm]	50 ppm
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	308 mg/m³
ACGIH OEL TWA [ppm]	50 ppm

subtilisin (9014-01-1)	
Belgium - Occupational Exposure Limits	
OEL TWA	0,00006 mg/m³
Denmark - Occupational Exposure Limits	
OEL TWA [1]	0,00006 mg/m³
OEL STEL	0,00006 mg/m³
Germany - Occupational Exposure Limits (Generic OEL data)	
Exposure limit values ((8 Hours))	1 glycine unit/m³
Exposure limit values ((15 minutes))	3 glycine unit/m³
Ireland - Occupational Exposure Limits	
OEL TWA [1]	0,00006 mg/m³
OEL STEL	0,00006 mg/m³
Netherlands - Occupational Exposure Limits	
TGG-C (OEL C)	0,00006 mg/m³
Portugal - Occupational Exposure Limits	
OEL C	0,00006 mg/m³
Spain - Occupational Exposure Limits	
VLA-EC (OEL STEL)	0,00006 mg/m³

subtilisin (9014-01-1)	
Sweden - Occupational Exposure Limits	
NGV (OEL TWA)	1 glycine unit/m³
KTV (OEL STEL)	3 glycine unit/m³
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA) [1]	0,00004 mg/m³
Norway - Occupational Exposure Limits	
Takverdi (OEL C) [1]	0,00006 mg/m³
Switzerland - Occupational Exposure Limits	
KZGW (OEL STEL)	0,00006 mg/m³

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:
Ensure adequate ventilation.

8.2.2. Personal protection equipment

Personal protective equipment:
Safety glasses. Mist formation: aerosol mask with filter type P3. Gloves.

Personal protective equipment symbol(s):

8.2.2.1. Eye and face protection

Eye protection:
Chemical goggles or safety glasses. Eye protection (standard EN 166)

8.2.2.2. Skin protection

Skin and body protection:
Use chemically protective clothing

Hand protection:
In case of repeated or prolonged contact wear gloves. (EN 374)

Other skin protection

Materials for protective clothing:
Use chemically protective clothing.

8.2.2.3. Respiratory protection

Respiratory protection:

Approved dust or mist respirator (acc. to EN 140 or EN 136) should be used if airborne particles are generated when handling this material. Recommended Filter: type P3 (acc. to EN 143). The entrepreneur has to ensur that maintenance cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer.

8.2.2.4. Thermal hazards

Thermal hazard protection:

Not applicable.

8.2.3. Environmental exposure controls

Environmental exposure controls:

Prevent entry to sewers and public waters. Avoid release to the environment.

Other information:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. The equipment must be cleaned thoroughly after each use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Liquid
Colour	:	light brown.
Odour	:	characteristic.
Odour threshold	:	Not determined
Melting point	:	The product has not been tested
Freezing point	:	The product has not been tested
Boiling point	:	The product has not been tested
Flammability	:	Not applicable
Explosive properties	:	Not applicable.
Oxidising properties	:	Not applicable.
Explosive limits	:	Not available
Lower explosion limit	:	Not available
Upper explosion limit	:	Not available
Flash point	:	The product has not been tested
Auto-ignition temperature	:	Not applicable
Decomposition temperature	:	Not applicable
pH	:	6,9 – 8,9
Viscosity, kinematic	:	The product has not been tested
Viscosity, dynamic	:	The product has not been tested
Solubility	:	Material highly soluble in water.
Partition coefficient n-octanol/water (Log Kow)	:	Not available
Partition coefficient n-octanol/water (Log Pow)	:	The product has not been tested
Vapour pressure	:	The product has not been tested
Vapour pressure at 50 °C	:	Not available
Density	:	Not available
Relative density	:	0,995 – 1,095
Relative vapour density at 20 °C	:	The product has not been tested
Particle characteristics	:	Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

Relative evaporation rate (butylacetate=1)	:	The product has not been tested
Additional information	:	None

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable in use and storage conditions as recommended in item 7.

10.2. Chemical stability

Stable in use and storage conditions as recommended in item 7.

10.3. Possibility of hazardous reactions

None under normal conditions.

10.4. Conditions to avoid

None.

10.5. Incompatible materials

None under normal conditions.

10.6. Hazardous decomposition products

None under normal conditions.

SECTION 11: Toxicological information

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

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

2-methoxymethylethoxypropanol (34590-94-8)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 10000 mg/kg

Alkyl polyglucoside C10-16 (110615-47-9)	
LD50 oral	> 2000 mg/kg

D-Glucopyranose, oligomers, decyl octyl glycosides (68515-73-1)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 5000 mg/kg
LC50 Inhalation - Rat (Dust/Mist)	50 mg/l/4h

3-butoxypropan-2-ol; propylene glycol monobutyl ether (5131-66-8)	
LD50 oral rat	3300 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 2800 - 4500
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LD50 dermal rabbit	> 2000 mg/kg
LC50 Inhalation - Rat	651 mg/l/4h

subtilisin (9014-01-1)	
LD50 oral	1800 mg/kg bodyweight

Skin corrosion/irritation : Causes skin irritation.
pH: 6,9 – 8,9

Serious eye damage/irritation : Causes serious eye damage.
pH: 6,9 – 8,9

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

subtilisin (9014-01-1)	
STOT-single exposure	May cause respiratory irritation.

STOT-repeated exposure : Not classified

3-butoxypropan-2-ol; propylene glycol monobutyl ether (5131-66-8)	
LOAEL (oral, rat, 90 days)	1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents), Guideline: EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents)
NOAEL (oral, rat, 90 days)	350 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents), Guideline: EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents)
NOAEL (dermal, rat/rabbit, 90 days)	880 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)

Aspiration hazard : Not classified

FELEMA - FOAMCLEAN E	
Viscosity, kinematic	The product has not been tested

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short–term (acute) : Not classified

Hazardous to the aquatic environment, long–term (chronic) : Harmful to aquatic life with long lasting effects.

2-methoxymethylethoxypropanol (34590-94-8)	
LC50, Fish, Pimephales promelas	> 10000 mg/l (96 Hours)
EC50, daphnia, Daphnia magna	> 100 mg/l (48 Hours)
EC50, algae	> 100 mg/l (72 Hours)

Alkyl polyglucoside C10-16 (110615-47-9)	
LC50 - Fish [1]	10 – 100 mg/l
EC0, microorganisms	> 100 mg/l

Amines, coco alkyldimethyl, N-oxides (308062-28-4)	
LC50, Fish, acute, Danio rerio	10-100 mg/l (96 Hours, (OECD 203))
EC50, daphnia, Daphnia magna	4.4 mg/l (48 Hours, (US-EPA))
EC50, algae, Pseudokirchneriella subcapitata	0.11 mg/l (96 Hours, (US-EPA))
EC50, Bacteria, Pseudomonas putida	190 mg/l (16 Hours, (DIN 38412 part 8))

D-Glucopyranose, oligomers, decyl octyl glycosides (68515-73-1)	
LC50 - Fish [1]	190 (≥ 0) mg/l (Danio rerio)
EC50 - Crustacea [1]	> 100 mg/l
EC50 72h - Algae [1]	37 mg/l (Scenedesmus subspicatus)
NOEC chronic crustacea	> 100 mg/l
3-butoxypropan-2-ol; propylene glycol monobutyl ether (5131-66-8)	
EC50 - Crustacea [1]	> 1000 mg/l Test organisms (species): Daphnia magna
EC50 96h - Algae [1]	> 1000 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
LC50, Fish, Poecilia reticulata	560-1000 mg/l (96 Hours)
NOEC, Fish, Poecilia reticulata	180 mg/l (96 Hours)
EC50, daphnia, Daphnia magna	> 1000 mg/l (48 Hours)
NOEC50, daphnia, Daphnia magna	560 mg/l (48 Hours)
NOEC50, algae, Selenastrum capricornutum	560 mg/l (96 Hours)
subtilisin (9014-01-1)	
LC50 - Fish [1]	8,2 mg/l (OECD 203 method)
EC50 - Crustacea [1]	586 µg/l (Daphnie sp.)
ErC50 algae	0,83 mg/l (OECD 201 method)

12.2. Persistence and degradability

2-methoxymethylethoxypropanol (34590-94-8)	
Persistence and degradability	Biodegradable.
Biodegradation	77 – 84 % 28 days
Alkyl polyglucoside C10-16 (110615-47-9)	
Persistence and degradability	Biodegradable.
Amines, coco alkyldimethyl, N-oxides (308062-28-4)	
Persistence and degradability	readily biologically degradable.
Biodegradation	> OECD (301B)
3-butoxypropan-2-ol; propylene glycol monobutyl ether (5131-66-8)	
Persistence and degradability	Biodegradable.
Biodegradation	60 – 90 % 28 days
subtilisin (9014-01-1)	
Persistence and degradability	(OECD 301B method). Biodegradable.

12.3. Bioaccumulative potential

FELEMA - FOAMCLEAN E	
Partition coefficient n-octanol/water (Log Pow)	The product has not been tested
2-methoxymethylethoxypropanol (34590-94-8)	
Bioaccumulative potential	Slightly or not bioaccumulative.

3-butoxypropan-2-ol; propylene glycol monobutyl ether (5131-66-8)	
Bioconcentration factor (BCF REACH)	3,2
Bioaccumulative potential	not bioaccumulable.

subtilisin (9014-01-1)	
Partition coefficient n-octanol/water (Log Pow)	< 0
Bioaccumulative potential	not bioaccumulable.

12.4. Mobility in soil

2-methoxymethylethoxypropanol (34590-94-8)	
Ecology - soil	Soluble in water.

3-butoxypropan-2-ol; propylene glycol monobutyl ether (5131-66-8)	
Ecology - soil	Soluble in water.

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations.

Waste treatment methods : Remove to an authorized waste treatment plant.

Sewage disposal recommendations : May be discharged to wastewater treatment installation.

Product/Packaging disposal recommendations : Dispose of contents/container to hazardous or special waste collection point. When totally empty, containers are recyclable like any other packing.

Ecology - waste materials : Collect all waste in suitable and labelled containers and dispose according to local legislation. Avoid release to the environment.

European List of Waste (LoW) code : 20 01 29* - detergents containing dangerous substances

R code/ D code : D9 - Physico-chemical treatment not specified elsewhere in this Annex which results in final compounds or mixtures which are discarded by means of any of the operations numbered D 1 to D 12 (e.g. evaporation, drying, calcination, etc.)

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

ADR	IMDG	IATA	ADN	RID
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No
No supplementary information available				

14.6. Special precautions for user

Overland transport
No data available

Transport by sea
No data available

Air transport
No data available

Inland waterway transport
No data available

Rail transport
No data available

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

Contains no REACH substances with Annex XVII restrictions

REACH Annex XIV (Authorisation List)

Contains no REACH Annex XIV substances

REACH Candidate List (SVHC)

Contains no substance on the REACH candidate list

PIC Regulation (Prior Informed Consent)

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

POP Regulation (Persistent Organic Pollutants)

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Ozone Regulation (1005/2009)

Contains no substance subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

Detergent Regulation (648/2004)

Labelling of contents	
Component	**%**
non-ionic surfactants	5-15%
phosphonates	<5%
enzymes	
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	

Explosives Precursors Regulation (2019/1148)

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on drug precursors)

15.1.2. National regulations

Germany

Water hazard class (WGK) : WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1).
Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

Netherlands

SZW-lijst van kankerverwekkende stoffen : Protéase (Subtilisine) (aep) is listed
SZW-lijst van mutagene stoffen : Protéase (Subtilisine) (aep) is listed
SZW-lijst van reprotoxische stoffen – Borstvoeding : None of the components are listed
SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : None of the components are listed
SZW-lijst van reprotoxische stoffen – Ontwikkeling : None of the components are listed

Denmark

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product
Pregnant/breastfeeding women working with the product must not be in direct contact with the product

Switzerland

Storage class (LK) : LK 10/12 - Liquids

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes			
Section	**Changed item**	**Change**	**Comments**
	Revision date	Modified	
	Issue date	Modified	
	Supersedes	Modified	
2.2	Precautionary statements (CLP)	Modified	

Full text of H- and EUH-statements:	
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3

Full text of H- and EUH-statements:	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
EUH208	Contains SUBTILISIN, 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.
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
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.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
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.
H412	Harmful to aquatic life with long lasting effects.
Resp. Sens. 1	Respiratory sensitisation, Category 1
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.