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

1.1. Product identifier
Trade name/designation:

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1.2. Relevant identified uses of the substance or mixture and uses advised against
Use of the substance/mixture:
sewage treatment plant
Restricted to professional users.

1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

Felema GmbH
Bahnhofstrasse 12
8712 Stäfa
Switzerland
Telephone: +41 44 926 23 05
E-mail: info@felema.com
Website: www.felema.com

1.4. Emergency telephone number

United States of America: National hotline number 1-800-222-1222
Great Britain: National phone number 111
Belgium: Centre antipoisons +32 070 245 245 / Bulgaria: +359 2 9154 233 / Croatia: +3851 2348 342 / Cyprus: +357 1401 / Czech Republic: +420 224 919 293, +420 224 915 402 / Denmark: +45 82 12 12 12 / Estonia: +372 16662, +372 7943 794 / Finland: +358 09 471 77 / France: numéro ORFILA (INRS) : +33 (0)1 45 42 59 59 / Greece: +30 21077 93777 / Hungary: +36 80 201 199 (24 hours) / Ireland: +353 (1) 809 2166 / Italy: +39 06 4997800 / Lithuania: +370 (85) 2362052 / Luxembourg: +352 8002 5500 / The Nederlands: +31 (0) 30 274 8888 / Norway: +47 22 59 13 00 / Portugal: +351 800 250 250 / Romania: +402 213 183 606 / Slovakia: +421 2 5477 4166 / Spain: National Emergency: +34 91 562 04 20 / Sweden: +46 112
European Union: Call 112 if no specific phone number available.
Chile: Toxicological Information Centre CITUC (24 hrs/365 days a year) +56 26353800.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]
The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]
According to EC directives or the corresponding national regulations the product does not have to be labelled.

Hazard components for labelling:
Subtilisin

Hazard statements: none

Supplemental hazard information	
EUH208	Contains Subtilisin. May produce an allergic reaction.

Precautionary statements: none

2.3. Other hazards

Other adverse effects:
This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

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The mixture does not contain substances >=0.1% of substances that have endocrine disrupting properties according to Regulation (EC) No. 1907/2006, Article 59(1) or Regulation (EU) 2017/2100 or Regulation (EU) 2018/605.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Additional information:

Contains Bacteria >1010 CFU/l

Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 34590-94-8 EC No.: 252-104-2 REACH No.: 01-2119450011-60	**(2-methoxymethylethoxy)propanol** Substance with a community workplace exposure limit.	5 – < 10 weight-%
CAS No.: 9014-01-1 EC No.: 232-752-2 Index No.: 647-012-00-8 REACH No.: 01-2119480434-38	**Subtilisin** Aquatic Acute 1 (H400), Aquatic Chronic 2 (H411), Eye Dam. 1 (H318), Resp. Sens. 1 (H334), STOT SE 3 (H335), Skin Irrit. 2 (H315) Danger	0.1 – < 0.5 weight-%

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious but breathing normally, place in recovery position and seek medical advice. Do not leave affected person unattended.

Following inhalation:

Provide fresh air. In case of allergic symptoms, especially in the breathing area, seek medical advice immediately.

In case of skin contact:

Gently wash with plenty of soap and water.

After eye contact:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Following ingestion:

Rinse mouth. Let 1 glass of water be drunken in little sips (dilution effect). Do NOT induce vomiting. Get medical advice/attention if you feel unwell.

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

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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:

Water spray jet, alcohol resistant foam. Carbon dioxide (CO2). Extinguishing powder. Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media:

Strong water jet

5.2. Special hazards arising from the substance or mixture

The product itself does not burn.

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Hazardous combustion products:
Carbon monoxide, Carbon dioxide (CO2). Gases/vapours, toxic

5.3. Advice for firefighters
Wear a self-contained breathing apparatus and chemical protective clothing.

5.4. Additional information
Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel
Personal precautions:
Remove persons to safety.

6.1.2. For emergency responders
Personal protection equipment:
Personal protection equipment: see section 8

6.2. Environmental precautions
Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up
For containment:
Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Collect in closed and suitable containers for disposal.
For cleaning up:
Water (with cleaning agent)

6.4. Reference to other sections
Safe handling: see section 7. Personal protection equipment: see section 8. Disposal: see section 13.

6.5. Additional information
Use appropriate container to avoid environmental contamination.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures
Advices on safe handling:
Wear personal protection equipment (refer to section 8). Do not breathe mist/vapours/spray.
Fire prevent measures:
No special measures are necessary.

Advices on general occupational hygiene
Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes and clothes.

7.2. Conditions for safe storage, including any incompatibilities
Technical measures and storage conditions:
Keep container tightly closed in a cool, well-ventilated place.
Requirements for storage rooms and vessels:
Make sure spills can be contained, e.g. in sump pallets or kerbed areas.
Hints on storage assembly:
Do not store together with: Oxidising agent, strong
Storage class (TRGS 510, Germany): 12 – non-combustible liquids that cannot be assigned to any of the above storage classes

7.3. Specific end use(s)
No data available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
WEL (GB)	**1,2-Propylenglykol** CAS No.: 57-55-6 EC No.: 200-338-0	① 10 mg/m³ ⑤ (particulates)
Ontario (CA) from 1 Jul 2015	**1,2-Propylenglykol** CAS No.: 57-55-6 EC No.: 200-338-0	① 50 ppm (155 mg/m³) ⑤ (vapor and Aerosol)
Ontario (CA) from 30 Mar 2022	**1,2-Propylenglykol** CAS No.: 57-55-6 EC No.: 200-338-0	① 10 mg/m³ ⑤ (Aerosol)
WEL (GB)	**1,2-Propylenglykol** CAS No.: 57-55-6 EC No.: 200-338-0	① 150 ppm (474 mg/m³) ⑤ (total dust)
IDLH (US) from 1 Jan 1994	**(2-methoxymethylethoxy)propanol** CAS No.: 34590-94-8 EC No.: 252-104-2	① 600 ppm
ES	**(2-methoxymethylethoxy)propanol** CAS No.: 34590-94-8 EC No.: 252-104-2	① 50 ppm (308 mg/m³) ⑤ (puede ser absorbido a través dérmica) vía dérmica, VLI
Alberta (CA) from 22 Jun 2023	**(2-methoxymethylethoxy)propanol** CAS No.: 34590-94-8 EC No.: 252-104-2	① 100 ppm (606 mg/m³) ② 150 ppm (909 mg/m³) ⑤ (may be absorbed through the skin) 1
IOELV (EU)	**(2-methoxymethylethoxy)propanol** CAS No.: 34590-94-8 EC No.: 252-104-2	① 50 ppm (308 mg/m³) ⑤ (may be absorbed through the skin)
VRC (FR)	**(2-methoxymethylethoxy)propanol** CAS No.: 34590-94-8 EC No.: 252-104-2	① 50 ppm (308 mg/m³) ⑤ (peut être absorbé par la peau)
WEL (GB)	**(2-methoxymethylethoxy)propanol** CAS No.: 34590-94-8 EC No.: 252-104-2	① 50 ppm (308 mg/m³) ⑤ (may be absorbed through the skin)
ACGIH (US) from 1 Jan 2022	**(2-methoxymethylethoxy)propanol** CAS No.: 34590-94-8 EC No.: 252-104-2	① 50 ppm
BC (CA) from 22 Jun 2022	**(2-methoxymethylethoxy)propanol** CAS No.: 34590-94-8 EC No.: 252-104-2	① 100 ppm ② 150 ppm
Québec (CA) from 1 Apr 2022	**(2-methoxymethylethoxy)propanol** CAS No.: 34590-94-8 EC No.: 252-104-2	① 100 ppm (606 mg/m³) ② 150 ppm (909 mg/m³) ⑤ (may be absorbed through the skin)
OSHA (US)	**(2-methoxymethylethoxy)propanol** CAS No.: 34590-94-8 EC No.: 252-104-2	① 100 ppm (600 mg/m³) ⑤ (may be absorbed through the skin)
NIOSH (US)	**(2-methoxymethylethoxy)propanol** CAS No.: 34590-94-8 EC No.: 252-104-2	① 100 ppm (600 mg/m³) ② 150 ppm (900 mg/m³) ⑤ (may be absorbed through the skin)

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Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
WEL (GB)	**Subtilisin** CAS No.: 9014-01-1 EC No.: 232-752-2	① 0 mg/m³
ES	**Subtilisin** CAS No.: 9014-01-1 EC No.: 232-752-2	② 0 mg/m³ ⑤ Sen
Québec (CA) from 1 Apr 2022	**Subtilisin** CAS No.: 9014-01-1 EC No.: 232-752-2	③ 0 ppm
Alberta (CA)	**Subtilisin** CAS No.: 9014-01-1 EC No.: 232-752-2	③ 0 mg/m³
BC (CA)	**Subtilisin** CAS No.: 9014-01-1 EC No.: 232-752-2	③ 0 mg/m³ ⑤ S(R)
NIOSH (US)	**Subtilisin** CAS No.: 9014-01-1 EC No.: 232-752-2	② 0 mg/m³
ACGIH (US)	**Subtilisin** CAS No.: 9014-01-1 EC No.: 232-752-2	② 0 mg/m³
ACGIH (US)	**Subtilisin** CAS No.: 9014-01-1 EC No.: 232-752-2	③ 0 mg/m³
Québec (CA)	**Subtilisin** CAS No.: 9014-01-1 EC No.: 232-752-2	③ 0 mg/m³

8.1.2. Biological limit values
No data available

8.1.3. DNEL-/PNEC-values
No data available

8.2. Exposure controls

8.2.1. Appropriate engineering controls
When heating, ensure good ventilation or source swelling.

8.2.2. Personal protection equipment

Eye/face protection:
Eye glasses with side protection EN 166

Skin protection:
Use protective gloves in accordance to EN 374. The following material is suitable: Butyl rubber or laminate film Normal duration of use min. 6 hours

Respiratory protection:
Not necessary in case of normal use.

8.2.3. Environmental exposure controls
No data available

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid
Form: Liquid
Colour: not determined
Odour: not determined
flammability: No

Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
pH	7	20 °C	
Melting point	*No data available*		
Freezing point	*No data available*		
Initial boiling point and boiling range	100 °C		
Flash point	*not applicable*		
Evaporation rate	*No data available*		
Auto-ignition temperature	*not applicable*		
Upper/lower flammability or explosive limits	*not applicable*		
Vapour pressure	*No data available*		
Vapour density	*No data available*		
Density	1 g/cm³	20 °C	
Bulk density	*not applicable*		
Water solubility	completely miscible	20 °C	
Dynamic viscosity	*No data available*		
Kinematic viscosity	*No data available*		

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

This material is considered to be non-reactive under normal use conditions.

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4. Conditions to avoid

Heat

10.5. Incompatible materials

Oxidising agent, strong

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

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

Acute oral toxicity:

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

Acute dermal toxicity:

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

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Acute inhalation toxicity:
Based on available data, the classification criteria are not met.

Skin corrosion/irritation:
Based on available data, the classification criteria are not met.

Serious eye damage/irritation:
Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation:
Contains Subtilisin. May produce an allergic reaction.

Germ cell mutagenicity:
Based on available data, the classification criteria are not met.

Carcinogenicity:
Based on available data, the classification criteria are not met.

Reproductive toxicity:
Based on available data, the classification criteria are not met.

STOT-single exposure:
Based on available data, the classification criteria are not met.

STOT-repeated exposure:
Based on available data, the classification criteria are not met.

Aspiration hazard:
Based on available data, the classification criteria are not met.

Additional information:
No data available

11.2. Information on other hazards

Endocrine disrupting properties:
This substance does not have endocrine disrupting properties with respect to humans.

SECTION 12: Ecological information

12.1. Toxicity

Subtilisin CAS No.: 9014-01-1 EC No.: 232-752-2
LC_{50}: 15.6 mg/L 4 d (fish)
EC_{50}: 256 mg/L 2 d (Daphnia magna (Big water flea))
ErC_{50}: 1.58 mg/L 3 d (Algae/water plant)

Aquatic toxicity:
Classification criteria for damage to aquatic organisms not met.

12.2. Persistence and degradability

(2-methoxymethylethoxy)propanol CAS No.: 34590-94-8 EC No.: 252-104-2
Biodegradation: Yes, rapidly
Subtilisin CAS No.: 9014-01-1 EC No.: 232-752-2
Biodegradation: Yes, rapidly

Biodegradation:
The product has not been tested. The single components are biodegradable.

12.3. Bioaccumulative potential

Accumulation / Evaluation:
No indication of bioaccumulation potential.

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

(2-methoxymethylethoxy)propanol CAS No.: 34590-94-8 EC No.: 252-104-2
Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

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Subtilisin CAS No.: 9014-01-1 EC No.: 232-752-2
Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

12.6. Endocrine disrupting properties
This substance does not have endocrine disrupting properties with respect to non-target organisms.

12.7. Other adverse effects
No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Do not allow to enter into surface water or drains. Small quantities can be disposed of with household waste.Large quantities: Consult the appropriate local waste disposal expert about waste disposal.

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product

19 08 99	Wastes not otherwise specified

Remark:
Wastecode according to regulation EU 2014/955

Waste code packaging

15 01 02	Plastic packaging

Waste treatment options

Appropriate disposal / Package:
Empty packaging can be recycled or eliminated as municipal solid waste.

SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN number or ID number			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.2. UN proper shipping name			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.3. Transport hazard class(es)			
not relevant	not relevant	not relevant	not relevant
14.4. Packing group			
not relevant	not relevant	not relevant	not relevant
14.5. Environmental hazards			
not relevant	not relevant	not relevant	not relevant
14.6. Special precautions for user			
not relevant	not relevant	not relevant	not relevant

14.7. Maritime transport in bulk according to IMO instruments
No data available

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
No data available

15.2. Chemical Safety Assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

16.1. Indication of changes

Version 1. Based on the classification according to Regulations (EC) No 1272/2008, (EU) 878/2020 and (EU) 707/2023.

16.2. Abbreviations and acronyms

ACGIH	American Conference of Governmental Industrial Hygienists
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
DIN	German Institute for Standardization / German Industrial Standard
DNEL	derived no-effect level
EC_{50}	Effective Concentration 50%
ECHA	European Chemicals Agency
EN	European Standard
ES	Exposure scenario
EWC	European Waste Catalogue
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
ISO	International Standards Organisation
LC_{50}	Lethal (fatal) Concentration 50%
MAK	Maximum concentration in the workplace air (CH)
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety & Health
OSHA	Occupational Safety & Health Administration
PBT	persistent and bioaccumulative and toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation and Authorization of Chemicals
RID	Dangerous goods regulations for transport by rail
TRGS	Technische Regeln für Gefahrstoffe
UN	United Nations

16.3. Key literature references and sources for data

Inventory of substances of the European Chemical Agency (ECHA). GESTIS database

16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

16.5. List of relevant hazard statements and/or precautionary statements from sections 2 to 15

Hazard statements	
H315	Causes skin irritation.
H318	Causes serious eye damage.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

16.6. Training advice

Persons charged with the handling and cleaning of the product must be trained prior to start their work and in regular intervals. They must be informed about the risks using the product and the mesures to

take for efficient prevention. This concerns particularly working security, first aid, health and environment protection.

16.7. Additional information

he above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products.