

FELEMA - MULTIENZYM

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830
Date of issue: 22-01-20 Revision date: 22-01-20 Supersedes: 12-11-15 Version: 1.2

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

1.1. Product identifier

Product form : Mixture
Product name : FELEMA - MULTIENZYM
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)44926 23 05 - F +41 (0)55 254 00 59 E-Mail: info@felema.com www.felema.com

1.4. Emergency telephone number

Emergency number : International: 0041 55 254 00 54

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]

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

EUH-statements : EUH208 - Contains subtilisin. May produce an allergic reaction.
EUH210 - Safety data sheet available on request.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of REACH annex II

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Take off immediately all contaminated clothing. Wash clothing before re-using. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation : Remove victim to fresh air. Allow the victim to rest.
First-aid measures after skin contact : Wash skin with mild soap and water.
First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, take medical advice.
First-aid measures after ingestion : Rinse mouth. Drink two glasses of water.

FELEMA - MULTIENZYM

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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

Symptoms/effects after inhalation	: Cough. Irritation of the respiratory tract and the other mucous membranes.
Symptoms/effects after skin contact	: Redness, pain.
Symptoms/effects after eye contact	: Redness, pain.
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	: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: None under normal conditions.
Explosion hazard	: Product is not explosive.
Reactivity in case of fire	: None.
Hazardous decomposition products in case of fire	: Thermal decomposition generates : Carbon monoxide. Carbon dioxide.

5.3. Advice for firefighters

Precautionary measures fire	: Wear proper protective equipment.
Firefighting instructions	: Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers.
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. Collect spillage.
------------------	--

6.1.1. For non-emergency personnel

Protective equipment	: Personal protection. See Heading 8.
Emergency procedures	: Avoid all contact with skin, eyes, or clothing. Do not breathe dust. Evacuate area.

6.1.2. For emergency responders

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

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment	: Dike for recovery or absorb with appropriate material.
Methods for cleaning up	: Collect spillage. Rinse with plenty of water. Minimise generation of dust.
Other information	: Never return spills in original containers for possible later re-use.

6.4. Reference to other sections

See Heading 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	: Do not eat, drink or smoke when using this product. Do not handle until all safety precautions have been read and understood. Do not breathe Dust. Do not get in eyes, on skin, or on clothing. Avoid all unnecessary exposure.
Hygiene measures	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: Store in original container. Keep only in the original container in a cool, well-ventilated place away from moisture. Keep container closed when not in use.
Incompatible products	: None to our knowledge.
Incompatible materials	: None to our knowledge.
Storage temperature	: 4 - 25 °C
Heat and ignition sources	: Store away from direct sunlight or other heat sources.
Storage area	: Store in a dry place. Prevent moisture contact.
Special rules on packaging	: Keep only in original container.
Packaging materials	: PP.

7.3. Specific end use(s)

Cleaning product.

FELEMA - MULTIENZYM

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

subtilisin (9014-01-1)

Denmark - Occupational Exposure Limits

Grænseværdie (langvarig) (mg/m ³)	0,00006 mg/m ³
Grænseværdie (kortvarig) (mg/m ³)	0,00006 mg/m ³

Germany - Occupational Exposure Limits (Generic OEL data)

Exposure limit values ((8 Hours))	1 glycine unit/m ³
Exposure limit values ((15 minutes))	3 glycine unit/m ³

Ireland - Occupational Exposure Limits

OEL (8 hours ref) (mg/m ³)	0,00006 mg/m ³
OEL (15 min ref) (mg/m ³)	0,00006 mg/m ³

Netherlands - Occupational Exposure Limits

MAC C (mg/m ³)	0,00006 mg/m ³
----------------------------	---------------------------

Portugal - Occupational Exposure Limits

OEL - Ceilings (mg/m ³)	0,00006 mg/m ³
-------------------------------------	---------------------------

Spain - Occupational Exposure Limits

VLA-EC (mg/m ³)	0,00006 mg/m ³
-----------------------------	---------------------------

Sweden - Occupational Exposure Limits

nivågränsvärde (NVG) (mg/m ³)	1 glycine unit/m ³
kortidsvärde (KTV) (mg/m ³)	3 glycine unit/m ³

United Kingdom - Occupational Exposure Limits

WEL TWA (mg/m ³)	0,00004 mg/m ³
------------------------------	---------------------------

Norway - Occupational Exposure Limits

Grenseverdier (Takverdi) (mg/m ³)	0,00006 mg/m ³
---	---------------------------

Switzerland - Occupational Exposure Limits

KZGW (mg/m ³)	0,00006 mg/m ³
---------------------------	---------------------------

Lipase (9001-62-1)

Latvia - Occupational Exposure Limits

OEL TWA (mg/m ³)	1 mg/m ³
------------------------------	---------------------

8.2. Exposure controls

Appropriate engineering controls:

Provide local exhaust or general room ventilation.

Personal protective equipment:

Gloves.

Materials for protective clothing:

No special clothing/skin protection equipment is recommended under normal conditions of use

Hand protection:

Gloves. (EN 374)

Eye protection:

Safety glasses. Eye protection (standard EN 166)

Skin and body protection:

No special clothing/skin protection equipment is recommended under normal conditions of use

FELEMA - MULTIENZYM

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Respiratory protection:

No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation. Approved dust or mist respirator (acc. to EN 140 or EN 136) should be used if airborne particles are generated when handling this material. Dust/aerosol mask with filter type P3

Personal protective equipment symbol(s):



Thermal hazard protection:

No specific measures are necessary.

Environmental exposure controls:

No special requirements.

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	: Solid
Appearance	: Powder.
Colour	: Off-white.
Odour	: characteristic.
Odour threshold	: The product has not been tested
pH	: Not applicable
Relative evaporation rate (butylacetate=1)	: Not applicable
Melting point	: The product has not been tested
Freezing point	: Not applicable
Boiling point	: Not applicable
Flash point	: Not applicable
Critical temperature	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: Not applicable
Flammability (solid, gas)	: Non flammable.
Vapour pressure	: The product has not been tested
Relative vapour density at 20 °C	: Not applicable
Relative density	: The product has not been tested
Density	: 1200 - 1500 kg/m ³
Solubility	: Soluble in water.
Log Pow	: The product has not been tested
Log Kow	: The product has not been tested
Viscosity, kinematic	: No data available
Viscosity, dynamic	: Not applicable
Explosive properties	: Product is not explosive.
Oxidising properties	: None.
Explosive limits	: Not applicable

9.2. Other information

No additional information available

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

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

10.4. Conditions to avoid

None.

FELEMA - MULTIENZYM

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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 toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Skin corrosion/irritation	: Not classified pH: Not applicable
Serious eye damage/irritation	: Not classified pH: Not applicable
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

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)	: Not classified

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

FELEMA - MULTIENZYM

Log Pow	The product has not been tested
Log Kow	The product has not been tested

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. 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.
Sewage disposal recommendations	: May be discharged to wastewater treatment installation.
Product/Packaging disposal recommendations	: When totally empty, containers are recyclable like any other packing.
Ecology - waste materials	: Avoid release to the environment.
European List of Waste (LoW) code	: 20 01 30 - detergents other than those mentioned in 20 01 29
R code/ D code	: D8 - Biological 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

SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

FELEMA - MULTIENZYM

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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

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

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

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.

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

Detergent Regulation : Labelling of contents:	
Component	%
phosphates	5-15%
enzymes	

15.1.2. National regulations

Germany

Reference to AwSV

: Water hazard class (WGK) 1, Slightly hazardous to water (Classification according to AwSV, Annex 1)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV

: Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen

: None of the components are listed

SZW-lijst van mutagene stoffen

: None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding

: None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid

: None of the components are listed

FELEMA - MULTIENZYM

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830
NIET-limitatieve lijst van voor de voortplanting : None of the components are listed
giftige stoffen – Ontwikkeling

15.2. Chemical safety assessment

No chemical safety assessment has been carried out for the substance or the mixture by the supplier

SECTION 16: Other information

Indication of changes:			
Section	Changed item	Change	Comments
	SDS EU format	Modified	
	Date of issue	Modified	
	Revision date	Modified	
	Supersedes	Modified	

Full text of H- and EUH-statements:	
EUH208	Contains subtilisin. May produce an allergic reaction.
EUH210	Safety data sheet available on request.

SDS EU (REACH Annex II)

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.