



# EnziMed Pre-cleaner

## Safety Data Sheet

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

Date of issue: 26-07-17

Version: 0.0

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : EnziMed Pre-cleaner  
Product code : OL20304  
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

OneLIFE S.A.  
Avenue Albert Einstein, 15  
B-1348 Louvain-la-Neuve - Belgium  
T +32 (0)10 48 34 27 - F +32 (0)10 45 63 63  
[info@onelife-bf.com](mailto:info@onelife-bf.com) - [www.onelife-bf.com](http://www.onelife-bf.com)

#### 1.4. Emergency telephone number

Emergency number : Int+32-70-245.245

Country	Organisation/Company	Address	Emergency number	Comment
	Centre Anti-Poisons/Antigifcentrum c/o Hôpital Central de la Base - Reine Astrid	Rue Bruyn B -1120 Brussels	+32 70 245 245	

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

Serious eye damage/eye irritation, Category H319  
2

Full text of H 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) :



GHS07

Signal word (CLP) : Warning  
Hazard statements (CLP) : H319 - Causes serious eye irritation  
Precautionary statements (CLP) : P264 - Wash hands thoroughly after handling  
P280 - Wear eye protection, face protection  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P337+P313 - If eye irritation persists: Get medical advice/attention

#### 2.3. Other hazards

No additional information available

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

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### 3.2. Mixtures

Name	Product identifier	%	Classification according to Directive 67/548/EEC	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Triethanolamine	(CAS-No.) 102-71-6 (EC-No.) 203-049-8 (REACH-no) 01-2119486482-31	0,1 - 1	Not classified	Not classified
2-methoxymethylethoxypropanol	(CAS-No.) 34590-94-8 (EC-No.) 252-104-2 (REACH-no) 01-2119450011-60	0,1 - 1	Not classified	Not classified
Alkyl polyglucoside C10-16	(CAS-No.) 110615-47-9 (REACH-no) 01-2119489418-23	1 - 5	Xi; R41 Xi; R38	Skin Irrit. 2, H315 Eye Dam. 1, H318
2,2'-iminodiethanol, diethanolamine	(CAS-No.) 111-42-2 (EC-No.) 203-868-0 (EC Index-No.) 603-071-00-1 (REACH-no) 01-2119488930-28	< 0.1	Xn; R22 Xn; R48/22 Xi; R41 Xi; R38	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT RE 2, H373 Aquatic Chronic 3, H412
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	Xi; R41 Xi; R37/38 R42	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 Aquatic Chronic 2, H411

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

- First-aid measures general : If you feel unwell, seek medical advice (show the label where possible). If on skin, take off contaminated clothing.
- First-aid measures after inhalation : Assure fresh air breathing.
- First-aid measures after skin contact : Remove contaminated clothing and shoes. Wash with plenty of 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. Contact ophthalmologist immediately.
- 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 : Redness, pain. May cause moderate irritation. Exposure may produce an allergic reaction.
- 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 : Water spray.
- Unsuitable extinguishing media : Do not use a heavy water stream.

### 5.2. Special hazards arising from the substance or mixture

- Fire hazard : Not flammable.
- Explosion hazard : Product is not explosive.
- Hazardous decomposition products in case of fire : Thermal decomposition generates : Carbon monoxide. Carbon dioxide.

### 5.3. Advice for firefighters

- Precautionary measures fire : Self-contained breathing apparatus when in close proximity to fire.
- Firefighting instructions : Eliminate all ignition sources if safe to do so. Prevent fire fighting water from entering the environment.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

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### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Ensure adequate ventilation. Sweep or shovel spills. Spill area may be slippery.

##### 6.1.1. For non-emergency personnel

Protective equipment : Personal protection. See Heading 8.

Emergency procedures : Evacuate area.

##### 6.1.2. For emergency responders

Protective equipment : Personal protection. See Heading 8. Do not breathe spray.

Emergency procedures : Ventilate area. Mark the danger area. Stop leak if safe to do so. Evacuate unnecessary personnel.

#### 6.2. Environmental precautions

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

#### 6.3. Methods and material for containment and cleaning up

For containment : Dike the product for recovery.

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Rinse with plenty of water.

Other information : Never return spills in original containers for possible later re-use.

#### 6.4. Reference to other sections

Exposure controls and personal protection. See Heading 8.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Additional hazards when processed : Avoid all eye and skin contact and do not breathe vapour and mist.

Precautions for safe handling : Avoid the formation of mists in the atmosphere. Do not get in eyes, on skin, or on clothing. Avoid all unnecessary exposure. Do not eat, drink or smoke when using this product.

Hygiene measures : Always wash hands after handling the product. Wash contaminated clothing before reuse.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container. 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.

Storage area : Store away from heat.

Special rules on packaging : Keep only in original container. Store in a closed container.

Packaging materials : PEHD.

#### 7.3. Specific end use(s)

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

2-methoxymethylethoxypropanol (34590-94-8)		
EU	Local name	(2-Methoxymethylethoxy)-propanol
EU	IOELV TWA (mg/m <sup>3</sup> )	308 mg/m <sup>3</sup>
EU	IOELV TWA (ppm)	50 ppm
EU	Notes	Skin
Belgium	Local name	Dipropylèneglycolmonométhyléther # Dipropyleenglycolmonomethylether
Belgium	Limit value (mg/m <sup>3</sup> )	308 mg/m <sup>3</sup>
Belgium	Limit value (ppm)	50 ppm
Belgium	Remark (BE)	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.
Triethanolamine (102-71-6)		
Belgium	Local name	Triéthanolamine # Tri-ethanolamine

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Triethanolamine (102-71-6)		
Belgium	Limit value (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
2,2'-iminodiethanol, diethanolamine (111-42-2)		
Belgium	Local name	Diéthanolamine # Di-ethanolamine
Belgium	Limit value (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
Belgium	Limit value (ppm)	46 ppm
Belgium	Remark (BE)	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.
subtilisin (9014-01-1)		
Belgium	Limit value (mg/m <sup>3</sup> )	0,00006 mg/m <sup>3</sup>

### 8.2. Exposure controls

#### Appropriate engineering controls:

Local exhaust and general ventilation must be adequate to meet exposure standards.

#### Materials for protective clothing:

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

#### Hand protection:

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

#### Eye protection:

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

#### Skin and body protection:

Wear suitable protective clothing

#### Respiratory protection:

In case of inadequate ventilation wear respiratory protection. Wear appropriate mask. Recommended Filter: type P3 (acc. to EN 143). The entrepreneur has to ensure that maintenance cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer.

#### Thermal hazard protection:

None necessary.

#### Environmental exposure controls:

Do not allow the product to be released into the environment.

#### Other information:

Emergency eye wash fountains 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 yellow.
Odour	: characteristic.
Odour threshold	: Not determined
pH	: 6,5 - 7,5
Relative evaporation rate (butylacetate=1)	: The product has not been tested
Melting point	: The product has not been tested
Freezing point	: The product has not been tested
Boiling point	: The product has not been tested
Flash point	: The product has not been tested
Auto-ignition temperature	: The product has not been tested

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Decomposition temperature	: Not applicable
Flammability (solid, gas)	: Not applicable
Vapour pressure	: The product has not been tested
Relative vapour density at 20 °C	: No data available
Relative density	: 0,95 - 1,05
Solubility	: Material highly soluble in water.
Log Pow	: The product has not been tested
Viscosity, kinematic	: The product has not been tested
Viscosity, dynamic	: No data available
Explosive properties	: Not applicable.
Oxidising properties	: Not applicable.
Explosive limits	: No data available

### 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

Not known.

### 10.4. Conditions to avoid

None to our knowledge.

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

In the event of fire, may decompose : Carbon dioxide. Carbon monoxide.

## 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

#### Alkyl polyglucoside C10-16 (110615-47-9)

LD50 oral	> 2000 mg/kg
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#### 2-methoxymethylethoxypropanol (34590-94-8)

LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 10000 mg/kg

#### Triethanolamine (102-71-6)

LD50 oral rat	6400 mg/kg
LD50 dermal rabbit	> 2000 mg/kg

#### 2,2'-iminodiethanol, diethanolamine (111-42-2)

LD50 oral rat	1600 mg/kg
LD50 dermal rabbit	> 8200 mg/kg

#### subtilisin (9014-01-1)

LD50 oral	1800 mg/kg bodyweight
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Skin corrosion/irritation	: Not classified pH: 6,5 - 7,5
Serious eye damage/irritation	: Causes serious eye irritation. pH: 6,5 - 7,5
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified

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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

Acute aquatic toxicity : Not classified

Chronic aquatic toxicity : Not classified

##### Alkyl polyglucoside C10-16 (110615-47-9)

LC50 fish 1	10 - 100 mg/l
EC0, microorganisms	> 100 mg/l

##### 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)

##### Triethanolamine (102-71-6)

LC50, Fish, Pimephales promelas	11800 mg/l (96 Hours)
EC50, daphnia, Ceriodaphnia dubia	1000 mg/l (48 Hours)
EC50, algae, Scenedesmus subspicatus	512 mg/l (72 Hours)
CSEO, daphnia, Daphnia magna	16 mg/l (21 days)

##### 2,2'-iminodiethanol, diethanolamine (111-42-2)

EC50, algae, Pseudokirchneriella subcapitata	2.2 mg/l (Hours)
CSEO50, daphnia, Daphnia magna	7.8 mg/l (21 days)
LC50, fish, Pimephales promelas	1460 mg/l (96 Hours)
EC50, daphnia, Daphnia magna	55 mg/l (48 Hours)

##### subtilisin (9014-01-1)

EC50, daphnia	586 µg /l (48 Hours)
ErC50, algae	830 µg /l (72 Hours)
LC50, fish	8,2 mg/l (96 Hours)

#### 12.2. Persistence and degradability

##### Alkyl polyglucoside C10-16 (110615-47-9)

Persistence and degradability : Biodegradable.

##### 2-methoxymethylethoxypropanol (34590-94-8)

Persistence and degradability : Biodegradable.  
Biodegradation : 77 - 84 % 28 days

##### Triethanolamine (102-71-6)

Persistence and degradability : Biodegradable.

##### 2,2'-iminodiethanol, diethanolamine (111-42-2)

Persistence and degradability : Biodegradable.  
BOD (% of ThOD) : 90 - 100 % ThOD 28 days(OECD 301F method)

##### subtilisin (9014-01-1)

Persistence and degradability : Biodegradable.

#### 12.3. Bioaccumulative potential

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Log Pow : The product has not been tested

##### 2-methoxymethylethoxypropanol (34590-94-8)

Bioaccumulative potential : Slightly or not bioaccumulative.

##### Triethanolamine (102-71-6)

Bioaccumulative potential : Low bioaccumulation potential.

##### 2,2'-iminodiethanol, diethanolamine (111-42-2)

Log Pow : -2,18 (OECD Guideline 107)

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<b>2,2'-iminodiethanol, diethanolamine (111-42-2)</b>	
Bioaccumulative potential	Low bioaccumulation potential.

<b>subtilisin (9014-01-1)</b>	
Log Pow	< 0
Bioaccumulative potential	not bioaccumulable.

### 12.4. Mobility in soil

<b>2-methoxymethylethoxypropanol (34590-94-8)</b>	
Ecology - soil	Soluble in water.

<b>Triethanolamine (102-71-6)</b>	
Ecology - soil	Soluble in water.

<b>2,2'-iminodiethanol, diethanolamine (111-42-2)</b>	
Ecology - soil	Soluble in water.

### 12.5. Results of PBT and vPvB assessment

Component	
Triethanolamine (102-71-6)	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
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

### 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.  
 Product/Packaging disposal recommendations : Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

## 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
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				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available				

### 14.6. Special precautions for user

#### - Overland transport

Not applicable

#### - Transport by sea

Not applicable

#### - Air transport

Not applicable

#### - Inland waterway transport

Not applicable

#### - Rail transport

Not applicable

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

Not applicable

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### 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

Detergent Regulation : Labelling of contents:

Component	%
non-ionic surfactants	<5%
enzymes	

##### 15.1.2. National regulations

No additional information available

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

### SECTION 16: Other information

Full text of R-, 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 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Resp. Sens. 1	Respiratory sensitisation, Category 1
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H302	Harmful if swallowed
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335	May cause respiratory irritation
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

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*