

Safety Data Sheet

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

1.1. Product identifier

Product form : Mixture

Product name : ENZYBREW L

Product code : LIQ1665

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

REALCO S.A.

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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]

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 Protease (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. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Directive 67/548/EEC	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Alcohols, C12-C14, etoxylated, propoxylated	(CAS No) 68439-51-0 (EC No) 931-986-9	1 - 5	Not classified	Aquatic Chronic 3, H412

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according to Regulation (EC) No. 453/2010

Name	Product identifier	%	Classification according to Directive 67/548/EEC	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Protease (Subtilisin)	(CAS No) 9014-01-1 (EC No) 232-752-2 (REACH-no) 01- 2119480434-38	0.1 - 1	Xn; R22 R42 Xi; R41 Xi; R37/38 N; R50	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 : In case of doubt or persistent symptoms, consult always a physician. If on skin, take off

contaminated clothing.

First-aid measures after inhalation : Assure fresh air breathing. Keep victim at rest in half upright position.

First-aid measures after skin contact : Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.

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.

First-aid measures after ingestion : Rinse mouth. Drink plenty of water.

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

Symptoms/injuries after inhalation : Cough. Shortness of breath. Vapours may cause drowsiness and dizziness.

Symptoms/injuries after skin contact : Redness, pain.

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

Symptoms/injuries after ingestion : Ingestion may cause nausea, vomiting and diarrhea. Gastrointestinal complaints.

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 : Thermal decomposition generates : Carbon oxides (CO, CO2).

fire

5.3. Advice for firefighters

Precautionary measures fire : Self-contained breathing apparatus when in close proximity to fire.

Firefighting instructions : Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the

environment. 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.

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. Equip cleanup crew with proper protection.

Emergency procedures : Mark the danger area. Stop leak if safe to do so.

6.2. Environmental precautions

Avoid release to the environment. 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 : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Rinse

with plenty of water.

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Other information : Spill area may be slippery.

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 get in eyes, on skin, or on clothing.

Do not breathe vapours. Use personal protective equipment as required.

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

Technical measures : Provide for a tub to collect spills.

Storage conditions : Keep in a cool, well-ventilated place. 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 in a well-ventilated place.

Special rules on packaging : Keep only in original container. made of the same material as the supply container.

Packaging materials PEHD.

7.3. Specific end use(s)

Cleaning product.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Glycerol (56-81-5)			
Belgium	Local name	Glycérine (brouillard)	
Belgium	Limit value (mg/m³)	10 mg/m³	
Protease (Subtilisin) (9014-01-1)			
Belgium	Limit value (mg/m³)	0,00006 mg/m³	

8.2. Exposure controls

Appropriate engineering controls:

Provide local exhaust or general room ventilation.

Personal protective equipment:

Insulated gloves. Safety glasses.

Hand protection:

Use neoprene or rubber gloves. (EN 134)

Eye protection:

Eye protection (standard EN 166)

Skin and body protection:

Use chemically protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. Combined gas/dust mask with filter type A/P2





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Thermal hazard protection:

None necessary.

Environmental exposure controls:

Avoid release to 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 : Yellow.

Odour : No data available
Odour threshold : Not determined

pH : 9 - 10

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 the product has no

Auto-ignition temperature : Not applicable

Decomposition temperature : Not applicable

Flammability (solid, gas) : Not applicable

Vapour pressure : The product has not been tested Relative vapour density at 20 °C : The product has not been tested

Relative density : 1 - 1,1

Solubility : Material highly soluble in water.

Log Pow : The product has not been tested

Viscosity, kinematic : The product has not been tested

Viscosity, dynamic : The product has not been tested

Explosive properties : Product is not explosive.

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

None under normal conditions.

10.4. Conditions to avoid

Direct sunlight. Heat.

10.5. Incompatible materials

None under normal conditions.

10.6. Hazardous decomposition products

Thermal decomposition generates: Carbon oxides (CO, CO2).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

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Alcohols, C12-C14, etoxylated, propoxylated (68439-51-0)		
LD50 oral rat	> 2000 mg/kg	
Protease (Subtilisin) (9014-01-1)		
LD50 oral	1800 mg/kg bodyweight	
Skin corrosion/irritation	: Not classified	
	pH: 9 - 10	
Serious eye damage/irritation	: Not classified	
	pH: 9 - 10	
Respiratory or skin sensitisation	: Not classified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
Reproductive toxicity	: Not classified	
Specific target organ toxicity (single exposure)	: Not classified	
Specific target organ toxicity (repeated exposure)	: Not classified	
Aspiration hazard	: Not classified	

SECTION 12: Ecological information

Toxicity

Alcohols, C12-C14, etoxylated, propoxylated (68439-51-0)		
LC50 fish 1 1 - 10 mg/l (Desmodesmus subspicatus)		
EC50 Daphnia 1	1 - 10 mg/l (Daphnia magna)	
EC50 72h algae (1) 1 - 10 mg/l (Leuciscus idus)		
Protease (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

Alcohols, C12-C14, etoxylated, propoxylated (68439-51-0)		
Biodegradation	70 % (OECD 301A method)	
Protease (Subtilisin) (9014-01-1)		
Persistence and degradability Biodegradable.		
12.3. Bioaccumulative potential		

ENZYBREW L		
Log Pow The product has not been tested		
Protease (Subtilisin) (9014-01-1)		
Log Pow < 0		
Bioaccumulative potential not bioaccumulable.		

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

Component	
Protease (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

Other adverse effects

No additional information available

SECTION 13: Disposal considerations

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13.1.	Waste treatment methor	ods

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.

Dispose of contents/container to hazardous or special waste collection point. WHEN TOTALLY Product/Packaging disposal recommendations

EMPTY, containers are recyclable like any other packing.

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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

HP Code : H4 - 'Irritant': non-corrosive substances and preparations which, through immediate, prolonged

or repeated contact with the skin or mucous membrane, can cause inflammation.

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 / RID / IMDG / IATA / ADN

14.1. UN number

UN-No. (ADR) : Not applicable
UN-No. (IMDG) : Not applicable
UN-No. (IATA) : Not applicable
UN-No. (ADN) : Not applicable
UN-No. (RID) : Not applicable

14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not applicable
Proper Shipping Name (IMDG) : Not applicable
Proper Shipping Name (IATA) : Not applicable
Proper Shipping Name (ADN) : Not applicable
Proper Shipping Name (RID) : Not applicable

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : Not applicable

IMDG

Transport hazard class(es) (IMDG) : Not applicable

IATA

Transport hazard class(es) (IATA) : Not applicable

ADN

Transport hazard class(es) (ADN) : Not applicable

RID

Transport hazard class(es) (RID) : Not applicable

14.4. Packing group

Packing group (ADR) : Not applicable
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable
Packing group (ADN) : Not applicable
Packing group (RID) : Not applicable

14.5. Environmental hazards

Dangerous for the environment : No Marine pollutant : No

Other information : No supplementary information available

14.6. Special precautions for user

- Overland transport

Not applicable

- Transport by sea

Not applicable

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- 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

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	%
polycarboxylates, amphoteric surfactants, 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 for the substance or the mixture by the supplier

SECTION 16: Other information

Full text of R-. H- and EUH-statements:

ents.
Acute toxicity (oral), Category 4
Hazardous to the aquatic environment — Acute Hazard, Category 1
Hazardous to the aquatic environment — Chronic Hazard, Category 2
Hazardous to the aquatic environment — Chronic Hazard, Category 3
Serious eye damage/eye irritation, Category 1
Sensitisation — Respiratory, Category 1
Skin corrosion/irritation, Category 2
Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
Harmful if swallowed
Causes skin irritation
Causes serious eye damage
May cause allergy or asthma symptoms or breathing difficulties if inhaled
May cause respiratory irritation
Very toxic to aquatic life
Toxic to aquatic life with long lasting effects
Harmful to aquatic life with long lasting effects
Contains . May produce an allergic reaction
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

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