

Avsnitt 1: Namnet på ämnet/blandningen och bolaget/företaget

1.1. Produktbeteckning

Produktform	: Blandning
Produktname	: ENZYBREW 10
Produktkod	: POU0938
Typ av produkt	: Rengöringsmedel

1.2. Relevanta identifierade användningar av ämnet eller blandningen och användningar det avråds från

1.2.1. Relevanta användningar

Rengöringsmedel	: Professionellt bruk
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1.2.2. Avrådd användning

Inte definierad

1.3. Närmare upplysningar om den som tillhandahåller säkerhetsdatablad

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info@realco.be - www.realco.be

1.4. Telefonnummer för nödsituationer

Telefonnummer för nödsituationer : I akuta fall ring 112, begär giftinformation.

AVSNITT 2: Farliga egenskaper

2.1. Klassificering av ämnet eller blandningen

Klassificering enligt förordning (EC) No. 1272/2008 [CLP]

Allvarlig ögonskada/ H319
ögonirritation, Kategori 2
Fullständiga riskfraser : se avsnitt 16

2.2. Märkningsuppgifter

Märkning enligt förordning (EC) No. 1272/2008 [CLP]

Faropiktogram (CLP) :



Signalord (CLP)	: Varning
Faroangivelse (CLP)	: H319 - Orsakar allvarlig ögonirritation
Skyddsangivelser (CLP)	: P264 - Tvätta händer, underarmar och ansikte grundligt efter användande P280 - Använd skyddshandskas, ögonskydd P305+P351+P338 - VID KONTAKT MED ÖGONEN: Skölj försiktigt med vatten i flera minuter. Ta ur eventuella kontaktlinser om det går lätt. Fortsätt skölja P337+P313 - Vid bestående ögonirritation: Sök läkarhjälp
Hälsöfaror	: EUH208 - Innehåller cellulas, Proteas (Subtilisin). Kan orsaka allergisk reaktion

2.3. Andra faror

Denna substans/blandning uppfyller inte vPvBkriterierna i REACH förordningen, annex XIII

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Säkerhetsdatablad

enligt förordning (EC) No. 453/2010

AVSNITT 3: Sammansättning/information om beståndsdelar

3.1. Ämne

EJ tillämpligt

3.2. Blandning

Name	Product identifier	%	Classification according to Directive 67/548/EEC	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Natriumkarbonat	(CAS No) 497-19-8 (EC no) 207-838-8 (EC index no) 011-005-00-2 (REACH-no) 01-2119485498-19	> 30	Xi; R36	Eye Irrit. 2, H319
Natriumkarbonatperoxid	(CAS No) 15630-89-4 (EC no) 239-707-6 (REACH-no) 01-2119457268-30	15 - 30	O; R8 Xn; R22 Xi; R36/38	Ox. Sol. 3, H272 Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318
Proteas (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
cellulas	(CAS No) 9012-54-8 (EC no) 232-734-4 (EC index no) 647-002-00-3	0.1 - 1	R42	Resp. Sens. 1, H334

Specific concentration limits:

Name	Product identifier	Specific concentration limits: DSD/DPD	Specific concentration limits: CLP
Natriumkarbonatperoxid	(CAS No) 15630-89-4 (EC no) 239-707-6 (REACH-no) 01-2119457268-30		(C < 25) Acute Tox. 4 (Oral), H302 (10 =<C < 25) Eye Irrit. 2, H319 (C >= 25) Eye Dam. 1, H318

Se avsnitt 16 för mer information om de olika farliga ämnena

AVSNITT 4: Åtgärder vid första hjälpen

4.1. Description of first aid measures

First-aid measures general	: Vid minsta tveksamhet, direkt exponering eller ihållande obehag, kontakta läkare (Visa om möjligt etiketten). Ta av förorenade kläder. Tvätta förorenade kläder innan de används på nytt.
Vid inandning	: Flytta ut i friska luften. Vila och kontakta läkare om besvären fortsätter.
Vid hudkontakt	: Tvätta huden med mild tvål och vatten.
Vid ögonkontakt	: VID KONTAKT MED ÖGONEN: Skölj noga i flera minuter. Ta ur eventuella kontaktlinser om det går lätt. Fortsätt skölja. Om irritation kvarstår kontakta läkare.
Vid förtäring	: Skölj munnen. Sök läkare.

4.2. De viktigaste symptomen och effekterna, både akuta och fördröjda

Efter inandning	: Hosta. Irritation i slemhinnor, luftvägar och lungor .
Efter hudkontakt	: Rodnad, smärta.
Efter ögonkontakt	: Rodnad, smärta. Ser suddigt.
Efter förtäring	: Magsmärtor, illamående.

4.3. Angivande av omedelbar medicinsk behandling och särskild behandling som eventuellt krävs

Behandla symptomatiskt.

AVSNITT 5: Brandbekämpningsåtgärder

5.1. Släckmedla

Lämpliga släckmedel	: Vatten. Koldioxid (CO ₂). Skum.
Olämpliga släckmedel	: Inga kända.

5.2. Särskilda faror som ämnet eller blandningen kan medföra

Brandfara	: Oxiderande ämne. Kan intensifiera brand.
Explosion hazard	: Produkten är inte explosiv.
Vid brand kan hälsoskadliga gaser spridas	: Vid förbränning bildas koldioxid och kolmonoxid).

5.3. Råd till brandbekämpningspersonal

Försiktighetsåtgärder vid brand	Använd skyddsutrustning
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Säkerhetsdatablad

enligt förordning (EC) No. 453/2010

- Brandbekämpning : Iatktag försiktighet vid bekämpning av brand i kemikalier. Använd vatten för att kyla utsatta behållare.
- Skydd vid bekämpning : Använd föreskriven skyddsutrustning inklusive andningskydd.

Avdelning 6: Åtgärder vid oavsiktliga utsläpp

6.1. Personliga skyddsåtgärder, skyddsutrustning och åtgärder vid nödsituation

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6.1.1. Personliga skyddsåtgärder

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6.1.2. För räddningspersonal

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6.2. Miljöskyddsåtgärder

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6.3. Metoder för inneslutning och sanering

För information : () DK GUDWWHUOLDUHOIENDHRPGHWNDWDVSnBWWWMINHUWVWW
Method : 6DPOD XSSVSLDnimHUDGDP6NOMPGBENHWYDWWH.
gYUInformation : cWHUUSMILWciginalUSDENDDUUVHrVW#UDYIG

6.4. Hänvisning till andra avsnitt

SeDYV

AVSNITT 7: Hantering och lagring

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.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Protease (Subtilisin) (9014-01-1)		
Belgium	Limit value (mg/m³)	0,00006 mg/m³

8.2. Exposure controls

- Appropriate engineering controls : Ensure adequate air ventilation.
- Personal protective equipment : Gloves. Safety glasses.

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Hand protection	: Gloves. (EN 374)
Eye protection	: Safety glasses. Eye protection (standard EN 166)
Skin and body protection	: Use chemically protective clothing
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. Recommended Filter: type P (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	: Avoid release to the environment. Prevent entry to sewers and public waters.
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	: Solid
Appearance	: Powder.
Colour	: white.
Odour	: characteristic.
Odour threshold	: Not tested
pH	: Not applicable
Relative evaporation rate (butylacetate=1)	: Not applicable
Melting point	: Not 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	: Not tested
Relative vapour density at 20 °C	: Not applicable
Relative density	: Not tested
Density	: 1050 - 1350 kg/m ³
Solubility	: In water, material is partially soluble.
Log Pow	: Not tested
Log Kow	: Not tested
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: Not applicable
Explosive properties	: Product is not explosive.
Oxidising properties	: Oxidizer.
Explosive limits	: Not applicable

9.2. Other information

Other properties	: Hygroscopic product.
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SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions of storage, handling and use.

10.2. Chemical stability

Stable under normal conditions of storage, handling and use.

10.3. Possibility of hazardous reactions

Stable under normal conditions of storage, handling and use.

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10.4. Conditions to avoid

None.

10.5. Incompatible materials

None under normal conditions.

10.6. Hazardous decomposition products

In the event of fire, may decompose : Carbon oxides (CO, CO₂).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

sodium carbonate (497-19-8)	
LD50 oral rat	> 2000 mg/kg
LC50, mouse, Inhalation	2.3 mg/l (2 Hours)
LC50, mouse, Inhalation	> 5000 mg/l (4 Hours)
Sodium carbonate peroxide (15630-89-4)	
LD50 oral rat	1034 mg/kg
LDLo, rabbit, Dermal	> 2000 mg/kg
Protease (Subtilisin) (9014-01-1)	
LD50 oral	1800 mg/kg bodyweight
cellulase (9012-54-8)	
LD50 oral	> 2000 mg/kg

Skin corrosion/irritation : Not classified
pH: Not applicable

Serious eye damage/irritation : Causes serious eye irritation.
pH: Not applicable

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

12.1. Toxicity

sodium carbonate (497-19-8)	
LC50, Fish	> 200 mg/l (96 Hours)
EC50, daphnia, Daphnia magna	> 200 mg/l (48 Hours)
Sodium carbonate peroxide (15630-89-4)	
LC50, fish, Pimephales promelas	70.7 mg/l (96 Hours)
EC50, aquatic invertebrates, daphnia	4.9 mg/l (48 Hours)
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)
cellulase (9012-54-8)	
EC50, daphnia	> 39,5 mg/l (48 Hours, (OCDE TG 202))
LC50, Fish	> 39,5 mg/l (96 Hours, (OCDE TG 203))

12.2. Persistence and degradability

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Persistence and degradability	Readily biodegradable.
sodium carbonate (497-19-8)	
Persistence and degradability	Inorganic product.

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Sodium carbonate peroxide (15630-89-4)	
Persistence and degradability	Not applicable. Inorganic product.

Protease (Subtilisin) (9014-01-1)	
Persistence and degradability	Readily biodegradable.

cellulase (9012-54-8)	
Persistence and degradability	Readily biodegradable.

12.3. Bioaccumulative potential

ENZYBREW 10	
Log Pow	Not tested
Log Kow	Not tested

sodium carbonate (497-19-8)	
Bioaccumulative potential	Not bioaccumulable.

Protease (Subtilisin) (9014-01-1)	
Log Pow	< 0
Bioaccumulative potential	Not bioaccumulable.

cellulase (9012-54-8)	
Log Pow	< 0
Bioaccumulative potential	Not bioaccumulable.

12.4. Mobility in soil

sodium carbonate (497-19-8)	
Ecology - soil	Soluble in water.

cellulase (9012-54-8)	
Ecology - soil	Soluble.

12.5. Results of PBT and vPvB assessment

ENZYBREW 10	
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	
Component	
cellulase (9012-54-8)	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
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
Sodium carbonate peroxide (15630-89-4)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

12.6. Other adverse effects

Additional information : No supplementary 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.
Waste 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	: Avoid release to the environment.
European List of Waste (LoW) code	: 20 01 29* - detergents containing dangerous substances
H 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

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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

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 73/78 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

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Detergent Regulation : Labelling of contents:

Component	%
oxygen-based bleaching agents	15-30%
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

Indication of changes:

	Supersedes	Modified	
	Date of issue	Modified	
	Revision date	Modified	
3	Composition/information on ingredients	Modified	

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
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Ox. Sol. 3	Oxidising Solids, Category 3
Resp. Sens. 1	Sensitisation — Respiratory, Category 1
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H272	May intensify fire; oxidiser
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
H400	Very toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects
EUH208	Contains . May produce an allergic reaction

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