

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

1.1. Product identifier

Product form : Mixture
 Product name : ENZYWINE W10
 Product code : POU0926
 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.
 Avenue Albert Einstein, 15
 B-1348 Louvain-la-Neuve - Belgium
 T +32 (0)10 45 30 00 - F +32 (0)10 45 63 63
info@realco.be - www.realco.be

1.4. Emergency telephone number

Emergency number : Int+32-70-245.245

Country	Organisation/Company	Address	Emergency number
BELGIUM	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]

Eye Irrit. 2 H319

Full text of H-phrases: 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, forearms and face thoroughly after handling
 P280 - Wear protective gloves, eye 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

EUH phrases :

EUH208 - Contains cellulase. May produce an allergic reaction

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

ENZYWINE W10

Safety Data Sheet

according to Regulation (EC) No. 453/2010

3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
sodium carbonate	(CAS No) 497-19-8 (EC no) 207-838-8 (EC index no) 011-005-00-2 (REACH-no) 01-2119485498-19	15 - 30	Eye Irrit. 2, H319
Sodium carbonate peroxide	(CAS No) 15630-89-4 (EC no) 239-707-6 (REACH-no) 01-2119457268-30	5 - 15	Ox. Sol. 3, H272 Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318
alcohols, C12-C15, ethoxylated, propoxylated	(CAS No) 120313-48-6	0.1 - 1	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 3, H412
cellulase	(CAS No) 9012-54-8 (EC no) 232-734-4 (EC index no) 647-002-00-3	0.1 - 1	Resp. Sens. 1, H334

Name	Product identifier	Specific concentration limits
Sodium carbonate peroxide	(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

Full text of R- and H-phrases: 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). Take off immediately all contaminated clothing. Wash clothing before re-using.
- 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. Get medical advice/attention.

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

- Symptoms/injuries after inhalation : Cough. Irritation of the respiratory tract and the other mucous membranes.
- Symptoms/injuries after skin contact : Redness, pain.
- Symptoms/injuries after eye contact : Redness, pain. Blurred vision.
- Symptoms/injuries 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 agents can be used.
- Unsuitable extinguishing media : None.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : May intensify fire; oxidiser.
- 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 : 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. Sweep or shovel spills.

6.1.1. For non-emergency personnel

- Protective equipment : Personal protection. See Heading 8.2.
- Emergency procedures : Avoid all contact with skin, eyes, or clothing. Do not breathe dust. Evacuate area.

ENZYWINE W10

Safety Data Sheet

according to Regulation (EC) No. 453/2010

6.1.2. For emergency responders

- Protective equipment : Personal protection. See Heading 8.2. Equip cleanup crew with proper protection.
- Emergency procedures : Mark out the contaminated area with signs and prevent access to unauthorized personnel. Evacuate unnecessary personnel. Stop leak if safe to do so.

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. Minimize generation of dust. Rinse with plenty of water.
- 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.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Protease (Subtilisin) (9014-01-1)		
Belgium	Limit value (mg/m ³)	0,00006 mg/m ³

8.2. Exposure controls

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

ENZYWINE W10

Safety Data Sheet

according to Regulation (EC) No. 453/2010

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.

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.

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

ENZYWINE W10

Safety Data Sheet

according to Regulation (EC) No. 453/2010

alcohols, C12-C15, ethoxylated, propoxylated (120313-48-6)	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rat	> 2000 mg/kg
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)
alcohols, C12-C15, ethoxylated, propoxylated (120313-48-6)	
LC50 fishes 1	0,1 - 1 mg/l (Branchydanio rerio)(OECD 203 method)
LC50, Fish, Branchydanio rerio	0,1-1 mg/l (96 Hours)
EC50, aquatic invertebrates	1-10 mg/l (48 Hours)
EC50, algae, acute, Scenedesmus subspicatus	0.1-1 mg/l (72 Hours, (OCDE 201))
EC10, microorganisms, Pseudomonas putida	> 1000 mg/l
EC10, long term, Scenedesmus subspicatus	0.1 - 1 mg/l
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

ENZYWINE W10	
Persistence and degradability	Readily biodegradable.
sodium carbonate (497-19-8)	
Persistence and degradability	Inorganic product.
Sodium carbonate peroxide (15630-89-4)	
Persistence and degradability	Not applicable. Inorganic product.
alcohols, C12-C15, ethoxylated, propoxylated (120313-48-6)	
Persistence and degradability	Biodegradable.
Biochemical oxygen demand (BOD)	0,31 g O ₂ /g substance
Chemical oxygen demand (COD)	2,215 g O ₂ /g substance
Biodegradation	>= 90 % Biodegradable.
cellulase (9012-54-8)	
Persistence and degradability	Readily biodegradable.

12.3. Bioaccumulative potential

ENZYWINE W10	
Log Pow	Not tested
Log Kow	Not tested
sodium carbonate (497-19-8)	
Bioaccumulative potential	Not bioaccumulable.

ENZYWINE W10

Safety Data Sheet

according to Regulation (EC) No. 453/2010

alcohols, C12-C15, ethoxylated, propoxylated (120313-48-6)	
Bioaccumulative potential	Not expected.
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.
alcohols, C12-C15, ethoxylated, propoxylated (120313-48-6)	
Ecology - soil	Product adsorbs onto the soil.
cellulase (9012-54-8)	
Ecology - soil	Soluble.

12.5. Results of PBT and vPvB assessment

ENZYWINE W10	
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	
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
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

Not regulated for transport

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

ENZYWINE W10

Safety Data Sheet

according to Regulation (EC) No. 453/2010

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

14.6.1. Overland transport

14.6.2. Transport by sea

14.6.3. Air transport

14.6.4. Inland waterway transport

Not subject to ADN : No

14.6.5. Rail transport

Carriage prohibited (RID) : No

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 substances with Annex XVII restrictions

ENZYWINE W10 is not on the REACH Candidate List

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Detergent Regulation : Labelling of contents:

Component	%
phosphates	>=30%
oxygen-based bleaching agents	5-15%
non-ionic surfactants	<5%
enzymes	

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No supplementary information available

SECTION 16: Other information

Full text of R-, H- and EUH-phrases:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1

ENZYWINE W10

Safety Data Sheet

according to Regulation (EC) No. 453/2010

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
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
H400	Very toxic to aquatic life
H412	Harmful to aquatic life with long lasting effects
R22	Harmful if swallowed
R36	Irritating to eyes
R36/38	Irritating to eyes and skin
R38	Irritating to skin
R41	Risk of serious damage to eyes
R42	May cause sensitization by inhalation
R50	Very toxic to aquatic organisms
R8	Contact with combustible material may cause fire
N	Dangerous for the environment
O	Oxidising
Xi	Irritant
Xn	Harmful

NFPA health hazard

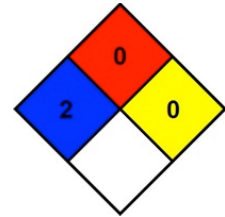
: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.

NFPA fire hazard

: 0 - Materials that will not burn.

NFPA reactivity

: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



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