

Enzymec
EC 1907/2006
Producer

 ESWA AG
 Rotzbergstrasse 1
 CH-6362 Stansstad Switzerland
 Herr R. Müller
 +41 41 619 72 72
 info@eswa.ch
 In case of emergency : Tox Zentrum +41 44 251 51 51

Distributor

 mectron s.p.a.
 via Loreto 15A
 I-16042 Carasco (GE) Italia
 0039 0185 35361
 mectron@mectron.com
 In case of emergency :

1 IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Trade name : Enzymec.
Application : Product for special applications.
Responsible for placing on the market : See address above.

2 HAZARDS IDENTIFICATION
Hazards identification


: Irritating to eyes.

Symptoms relating to use
Caution

: Contains : Amylase, alpha- - Lipase(triacylglycerol) - Subtilisin. May produce an allergic reaction.

3 COMPOSITION / INFORMATION ON INGREDIENTS

Substance / Preparation : Preparation.
Composition : Regulation (CE) No. 648/2004 of 31 March 2004 on detergents.
 < 5% : - Phosphonates - Anionic surfactants - Soap
 5% - 15% : - Nonionic surfactants
Contains : BENZISOTHIAZOLINONE, METHYLISOTHIAZOLINONE.
 Enzymes

Substances presenting a health or environmental hazard (Directive 67/548/EEC) :

Substance name	Value(s)	CAS No	EC No	Index No	Classification
Fatty alcohol EO/PO	: Between 5 and 15 %	68154-97-2	----	----	Xn; R22 Xi; R41 N; R50
Sodium Polyoxyethylene Laurylether Sulfate	: Between 1 and 5 %	68891-38-3	----	----	Xi; R36/38
Phosphonate	: Between 0.1 and 1 %	5995-42-6	227-833-4	----	Xi; R36/38
Amylase, alpha-	: Between 0.1 and 1 %	9000-90-2	232-565-6	647-015-00-4	R42
Lipase(triacylglycerol)	: Between 0.1 and 1 %	9001-62-1	232-619-9	----	R42/43
Subtilisin	: Between 0.1 and 1 %	9014-01-1	232-752-2	647-012-00-8	Xi; R37/38-41 R42
Tolyltriazol	: Between 0.01 and 0.1 %	29385-43-1	249-596-6	----	Xn; R22
BENZISOTHIAZOLINONE	: Between 0.001 and 0.01 %	2634-33-5	220-120-9	613-088-00-6	Xn; R22 Xi; R38-41 R43 N; R50
METHYLISOTHIAZOLINONE	: Between 0.001 and 0.01	2682-20-4	220-239-6	----	T; R23/24/25 C; R34 R43 N; R50

Enzymec

EC 1907/2006

4 FIRST AID MEASURES

- Skin contact : Rinse immediately with plenty of water.
- Eye contact : In case of eye contact, immediately rinse with clean water for 10-15 minutes.
- Ingestion : Seek medical attention if ill effect develops.

5 FIRE-FIGHTING MEASURES

- Extinguishing media** : All known extinguishants can be used.

6 ACCIDENTAL RELEASE MEASURES

- Personal precautions** : Wear recommended personal protective equipment.
- Environmental precautions** : Prevent entry to sewers and public waters.

7 HANDLING AND STORAGE

- Handling** : Not expected to present a significant skin hazard under anticipated conditions of normal use.
- Storage** : Keep away from food, drink and animal feeding stuffs.
Store at room temperature

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

- General hygiene** : Avoid contact of the undiluted product with the skin, the eyes and clothing.
- Respiratory protection : None.

9 PHYSICAL AND CHEMICAL PROPERTIES

- Physical state at 20 °C** : Fluid.
- Colour** : Green.
- Odo(u)r** : Characteristic.
- pH value** : 7.0 - 9.0
- Solubility in water** : Complete.
- Flash point [°C]** : Not applicable.

10 STABILITY AND REACTIVITY

- Stability and reactivity** : Stable under normal conditions.
- Hazardous decomposition products** : None under normal conditions.

11 TOXICOLOGICAL INFORMATION

With the product as such no toxicological tests have been done. According to the criteria of 1999/45/EC this product is not toxic. Components that are toxic are mentioned in section 3.

12 ECOLOGICAL INFORMATION

With the product as such no ecotoxicological tests have been done. According to the criteria of 1999/45/EC this product is not dangerous for the environment. Components that are dangerous to the environment are mentioned in section 3.

Enzymec

EC 1907/2006

12 ECOLOGICAL INFORMATION (continued)

Persistence and degradability : The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 ammended by Regulation (EC) No 907/2006. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

13 DISPOSAL CONSIDERATIONS

General : Enzymec is not considered a hazardous waste under Federal Hazardous Regulations 40 CFR 261. Please be advised, however, that state and local requirements for Waste disposal maybe more restrictive or oterwise different from federal regulation. Consult state and local regulations regarding the proper disposal of this matter
 Comply with local regulations for disposal.

Disposal method : On land, sweep or shovel into suitable containers.

14 TRANSPORT INFORMATION

General information : Not classified according to ADR/RID.
 Not classified according to IMDG / IMO.
 Not restricted IATA.

15 REGULATORY INFORMATION

- Symbol(s)



: Xi : Irritant.

Contains : < 5% : - Phosphonates - Anionic surfactants - Soap
 5% - 15% : - Nonionic surfactants
 Enzymes

Preservatives : BENZISOTHIAZOLINONE, METHYLISOTHIAZOLINONE.

- R Phrase(s) : R36 : Irritating to eyes.

- S Phrase(s) : S24 : Avoid contact with skin.
 S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 S35 : This material and its container must be disposed of in a safe way.
 S37/39 : Wear suitable gloves and eye/face protection.

Further Phrases : Contains : Amylase, alpha- - Lipase(triacylglycerol) - Subtilisin. May produce an allergic reaction.


Other : USA
 TSCA STATUS: NA

SARA Title III, 302/303 EHS.....: NA

SARA Title III, 304, HS,: NA

SARA Title III, 313,: NA

Canada

	MATERIAL SAFETY DATA SHEET	Page : 4 of 4
		Revised edition no : 1
		Date : 30 / 11 / 2010
		Supersedes : 0 / 0 / 0
Enzymec		EC 1907/2006

15 REGULATORY INFORMATION (continued)

DSL..... Tutti gli ingredienti sono elencati nella Lista delle Sostanze Domestiche.....: NA

WHMIS Classificazione.....: NA

HMIRCRegistrazione Numero: NA
.....Data: NA

16 OTHER INFORMATION

- List of relevant R phrase (heading 3)** : R22 : Harmful if swallowed.
R23/24/25 : Toxic by inhalation, in contact with skin and if swallowed.
R34 : Causes burns.
R36/38 : Irritating to eyes and skin.
R37/38 : Irritating to respiratory system and skin.
R38 : Irritating to skin.
R41 : Risk of serious damage to eyes.
R42 : May cause sensitization by inhalation.
R42/43 : May cause sensitization by inhalation and skin contact.
R43 : May cause sensitization by skin contact.
R50 : Very toxic to aquatic organisms.
R53 : May cause long-term adverse effects in the aquatic environment.

DISCLAIMER OF LIABILITY : The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.

Revision : Major changes in the text compared to former version are indicated with *.
Prepared by : ME
99.012172.07.3 (BK 26.01.2011)

Content and format of this data sheet on product security (MSDS) are in accordance with Regulation (EC) 1907/2006.

DISCLAIMER OF LIABILITY The information within this MSDS refers to reliable sources. The correctness of the information, in printed or suggested form, is not ensured. The conditions or methods of the handling, storage, use or disposal of the product lie outside of our control, and possibly also outside of our information area. For this and other reasons we take no responsibility and reject expressly liability for loss, damage or expenses, which could develop from the application, storage, use or disposal of the product or with it are connected in any way. This MSDS was prepared for this product and may be only used thereby. If the product should be used as a component of another product, then these MSDS information does probably not apply.

End of document