

# SAFETY DATA SHEET (91/155/CEE)

## ECOZEN

### 1. Identification of the preparation and the company

Trade name : ECOZEN

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Application of the substance / preparation: enzymatic cleaning solution

### 2. Composition and information on the ingredients

Information on composition:

Mix of cellulase and beta-glucanase complex in aqueous solution

Characterization of important components according to ingredients:

Warning signs : None

R-Phrases : None

### 3. Hazards identification

Inhalation, ingestion and contact with the skin may in individual cases result in sensitization, especially in sensitive individuals. Diluted down to the concentration of use, a sensitive effect is not likely to occur.

### 4. First-aid measures

IN CASE OF:

**Inhalation:** move subject to fresh air and get medical attention. Consult a physician.

**Eye contact:** immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists consult a physician.

**Skin contact:** remove contaminated clothing and wash affected skin thoroughly with soap and water.

**Ingestion:** Never give anything by mouth to an unconscious person and never provoke vomiting. Consult a physician.

**Note to Physician:** no special first aid measures

**5. Fire-fighting measures***Suitable extinguishing media:*

Dry chemical, water spray, carbon dioxide.

*Special exposure hazards arising from substance or combustion products:*

The product itself is not combustible. Vapours released during the thermal decomposition of the product can be irritating to the mucous membranes and the upper respiratory tract.

*Special protective equipment for fire-fighting:*

Cool drums exposed to the fire with water spray. Coordinate fire fighting measures and personal protective equipment with primary cause of fire and environmental vicinity. Collect contaminated water if possible and dispose according to local regulations.

**6. Accidental release measures**

Wear protective clothing (see section 8). Close drains. Dike spill with inert material. Pump off large amounts of the product into marked, resistant containers. Cover residue with an inert absorbent, take up by mechanical means into marked containers and hold for waste disposal as described in chapter 13. Thoroughly rinse affected ground with plenty of water.

**7. Handling and storage**Handling

Handle product only in well-ventilated areas. Use only corrosive resistant tools and equipment. Avoid any direct contact with the product. Strictly follow the instructions of use. Provide eye bath at working place.

Storage

Store product in tightly closed containers in a ventilated area at temperatures between 0 and 40 °C. Take suitable measures to avoid spills entering into drains or water circuits in case of spills. Avoid contact with spills and splashes during refilling processes.

**8. Exposure controls and personal protection**

## Technical facility design:

There are no additional measures necessary besides those, given in chapter 7.

## Components with exposure limits:

The discussed product does not contain any components with exposure limits.

Personal hygiene and protective equipment

Observe the general guidelines of industrial hygiene as stated by the responsible professional association. Avoid any direct contact with the product. Change contaminated clothing and thoroughly wash before reuse. Do not rub the eyes with dirty hands. Wash hands after work.

Respiratory protection	:	Not necessary.
Hand protection	:	Gloves of rubber or plastic.
Eye protection	:	Chemical safety goggles.
Skin protection	:	Impermeable work clothes.

**9. Physical and chemical properties**

Form	:	suspension in water
Colour	:	brown
Odour	:	characteristic
pH value (20 °C)	:	7
Melting point	:	0 °C
Boiling point	:	100 °C
Vapour pressure	:	no data available
Viscosity	:	no data available
Water solubility	:	100% soluble
Flashpoint	:	not applicable
Auto-flammability	:	not applicable
Explosion limits	:	not explosive
Density	:	1,09

**10. Stability and reactivity**

Stability	:	Stable under normal storage conditions.
Conditions to avoid	:	None
Materials to avoid	:	None
Hazardous decomposition products	:	None

**11. Toxicological information**

Inhalation of aerosols or dust resulting from inappropriate handling may induce sensitization and may cause allergic reactions in sensitized individuals. Prolonged skin contact may cause minor irritation. Oral rat LD-50 > 2 g/kg of the concentrated active ingredients, classifies the preparation as "non-toxic".

**12. Ecological information**

LC-50 (fish) > 100 mg/L, EC-50 (daphnia) > 100 mg/L and IC-50 (algae) > 100 mg/L of the concentrated active ingredients, classifies the preparation as "non-dangerous" to the environment. The product is soluble in water and biodegradable.

**13. Disposal considerations**

No special disposal method required, except that in accordance with current local authority regulations.

**14. Transport regulations**

IMDG-PAGE	:	-	UN N°	:	-	IACO/IATA	:	-
GGVS/GGVE	:	-	RID/ADR	:	-	ADNR	:	-
HAZARD N°	:	-	MFAG	:	-	EMS	:	-
TREMCARD	:	-	IATA-PAGE	:	-	PACK GROUP:	:	-
DANGER NOTE	:	-	MARINE-POL	:	-	SKZ N°	:	-

The product is not covered by the regulations of the transport of dangerous goods.

**15. Regulatory information**

The product has been classified and labelled in accordance with EC directives/Ordinances.

Classification: not dangerous

R-Phrases: none

S-Phrases: none

Cautions: do not apply up-wind, do not contaminate other crops, animal feeding stuffs and waterways

Refer to all applicable national, international and local regulations or provisions.

**16. Other information**

The attention of the user is drawn to the possible risks incurred by using the product for any of the purpose other than for which it was intended.

The information contained herein related only to the specific material identified.

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