

Material Safety Data Sheet ZIMACLAR



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This MSDS cancels and replaces any other previous edition.

MSDS in accordance to REGULATION (EC) N 1907/2006, Annex II

1 PRODUCT AND COMPANY IDENTIFICATION

Commercial name: ZIMACLAR
Type of product and use: Enzyme preparation for oenological and professional use
DISTRIBUTOR NAME:: ENOLOGICA VASON SpA – Via Nassar 37
37029 SAN PIETRO IN CARIANO (VR) ITALIA
Phone n. +39-045-6859017 Fax n. +39-045-7725188

E-mail: info@vason.com

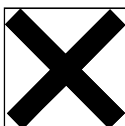
Emergency phone number of the company: +39 045-6859017

2. HAZARDS IDENTIFICATION

The preparation is classified as dangerous according to Directive 1999/45/EC and its amendments.

- **Hazard classification:**

Xn



Harmful

Hazard indication for human and environmental:

Human health hazards:

May cause sensitisation by inhalation.

Dust may cause mechanical irritation.

Environmental hazards:

Based on the available data of this product no hazardous properties are known.

Physical/chemical hazards:

Possibility of explosion exists under dusty conditions.

2. COMPOSITION/INFORMATION ON INGREDIENTS

- Chemical characteristics

- **Description:** enzyme preparation.

- **Dangerous substances:**

CAS n.	EINECS n.	Components	%	Dangers
9032-75-1	232-885-6	Enzyme protein	1-10	Harmful R42

IUB number: 3.2.1.15

occupational exposure limits, if available, are listed in section 8

4. FIRST AID MEASURES

- Effects and symptoms

Contact with the skin:

There is no known acute effect after over-exposure to this product.

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Contact with the eyes:

May cause eye irritation. (redness).

Ingestion:

There is no known acute effect after over exposure to this product

Inhalation:

Over-exposure by inhalation may cause respiratory irritation. (coughing) May cause sensitisation by inhalation. Sensitive individuals may develop asthma on inhalation of this material.

- First-aid measures

General:

Protection of first-aiders: put on appropriate personal protective equipment (see section 8). Move exposed person to fresh air. Remove contaminated clothing and shoes

Inhalation:

Remove to fresh air. Prevent cooling of the person. Keep victim at rest in half-upright position. If not breathing, give artificial respiration. Get medical attention.

Ingestion:

If swallowed, rinse mouth with water (only if person is conscious). Obtain medical attention if symptoms occur.

Contact with the skin:

Rinse with plenty of running water. Remove contaminated clothing and shoes. Obtain medical attention if symptoms occur.

Contact with the eyes:

Rinse with plenty of running water. Obtain medical attention if symptoms occur.

5. FIRE-FIGHTING MEASURES

Extinguishing methods:

Use dry chemical or CO₂. If large fire use extinguishing media suitable for surrounding materials.

Hazardous thermal decomposition products

In case of fire, may produce toxic and/or corrosive decomposition products.

Special fire-fighting procedures

Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Protection of fire-fighters

Wear suitable protective clothing. Self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Avoid creating dusty conditions and prevent wind dispersal. Avoid contact with eyes, skin and clothing. Self-contained breathing apparatus. Use suitable protective equipment (section 8). Consult expert immediately. Keep away from sources of ignition. Take precautionary measures against static discharges. Use explosion-proof electrical (ventilating, lighting and material handling) equipment.

Environmental precautions

No special measures required.

Clean-up Methods

Small spill and leak: Vacuum or sweep up material and place in a designated, labelled waste container. Clean up affected area with a large amount of water.

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Large spill and leak: Prevent entry into sewers, basements or confined areas. Dyke if necessary. Vacuum or sweep up material and place in a designated, labelled waste container. Recycle, if possible. Prevent formation of dust clouds. Use explosion-proof electrical (ventilating, lighting and material handling) equipment.

Note see section 8 for personal protective equipment and section 13 for waste disposal

7. HANDLING AND STORAGE

Handling:

Preferably use in closed systems. Use with adequate ventilation. Use suitable protective equipment. Avoid contact with eyes, skin, respiratory tract and clothing. Avoid creating dusty conditions and prevent wind dispersal. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Take measures against static discharge. Keep away from sources of ignition.

Storage:

Keep in a cool and dry place

8. EXPOSURE CONTROLS & PERSONAL PROTECTION

Engineering measures

Use only with adequate ventilation. Local exhaust ventilation should be provided. Use explosionproof electrical (ventilating, lighting and material handling) equipment.

Personal protection

General norms on personal protection and safety in the workplace:

Keep away from food, drink, and animal feeding stuffs.

Remove contaminated clothing.

Wash hands before break time or at the end of work.

Avoid contact with eyes and skin.

Respiratory protection:

Dust protection mask P3

Hand protection:

CE-approved latex gloves specific for the chemical industry.

Eye protection:

Splash goggles. Do not use contact lenses.

Body protection:

Protective apron, boots

9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance: solid
- Colour: colourless to brown.
- Odour: slightly fermentation odour

- pH: 3 to 7

- Change of state

Melting point: Not available

- Inflammability

Flash point: Not available

Auto-inflammability: Not available

- Solubility in water: good

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10. STABILITY AND REACTIVITY DATA

Stability:

Stable under recommended storage and handling conditions (see section 7)

Conditions to avoid:

No special recommendations

Substances to avoid:

No special recommendations

11. TOXICOLOGICAL INFORMATION

Potential acute health effects

Inhalation: may cause sensitisation by inhalation

Ingestion: no known significant effects or critical hazards

Skin contact: no known significant effects or critical hazards

Eye contact: no known significant effects or critical hazards

Acute toxicity:

LD50 (oral, rat): >2000 mg/Kg

Potential chronic health effects:

Chronic effects: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Carcinogenicity: no known significant effects or critical hazards

Mutagenicity: no known significant effects or critical hazards

Teratogenicity: no known significant effects or critical hazards

Developmental effects: no known significant effects or critical hazards

Fertility effects: no known significant effects or critical hazards

Cronic Toxicity: No specific data

Carcinogenicity: No specific data

Mutagenicity: No specific data

Teratogenicity: No specific data

Reproductive toxicity: No specific data

12. ECOLOGICAL INFORMATION

Enviromental effects:

No known significant effects or critical hazards

Aquatic ecotoxicity:

No specific data

Persistence / degradability:

No specific data

Other adverse effects:

No known significant effects or critical hazards.

Mobility:

For data on physical state and solubility see section 9.

Remarks:

The preparation is believed not to be dangerous to the environment with respect to mobility, persistence and degradability, bio-accumulative potential, aquatic toxicity and other data relating to eco-toxicity.

13. DISPOSAL CONSIDERATIONS

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Product and packages:

Waste must be disposed of in accordance with applicable norms, through authorized disposal entities.

14. TRASPORT INFORMATION

Product without ADR/RID or IMO regulatory framework.

15. REGULATORY INFORMATION

The product is classified as Harmful.

Symbols:	Xn	Harmful
Risk phrases:	R42	May cause sensitisation by inhalation
Safety phrases:	S22/23	do not breathe dust or spray
	S24	Avoid contact with skin
	S36/37	Wear suitable protective clothing and gloves

16. OTHER INFORMATION

Enologica Vason organizes meetings and training to ensure proper and safe use of its preparations. The information given in this data sheet is based on the state of our knowledge on the date of emission and/or update. It refers only to the product in question and does not constitute and must not be construed as a guarantee of quality.