

## Safety Data Sheet

### SpiritoZym MAM

Safety Data Sheet dated: 7/22/2025 - version 1

Date of first edition: 7/22/2025

## 1. Identification

GHS Product identifier

Trade name: SpiritoZym MAM

### Recommended use of the chemical and restrictions on use

Recommended use: FOR PROFESSIONAL USE

Uses advised against: no data available

### Supplier's details

Company:

Enartis S.r.l. Via A. Grandi, 9

28066 Galliate (Novara) Italy

Phone n. +39 0321 1820099

Competent person responsible for the safety data sheet: vino@enartis.it

Importer's details

Australia - ENARTIS PACIFIC PTY

69 Chadstone Rd, Malvern East,

Victoria, 3145 Australia

Ph. +61 (03) 9428 0037

New Zealand - ENARTIS PACIFIC PTY

Suite 14, Level 1, 1 Shakespeare Road,

Napier South 4110 - New Zealand

Ph. +64 (06) 8434 413

### Emergency phone number

Australia: Ph. +61 (03) 9428 0037 New Zealand: Ph. +64 (06) 8434 413

Enartis - Phone n. +39 0321 1820098

Australia Wide 24/7 Poison Information centre: 131126

New Zealand Emergencies National Poisons Centre: 0800 764 766

Other Emergencies: Dial 111 then ask for fire, ambulance or police as required

## 2. Hazard identification



Classification of the Hazardous chemical

Respiratory Sensitisation, Category 1

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Adverse physicochemical, human health and environmental effects:

No other hazards

GHS label elements, including precautionary statements

### Hazard pictograms and Signal Word



Danger

### Hazard statements

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

### Precautionary statements

P261 Avoid breathing vapours/spray

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

### Contains

amylase, α-

Other hazards which do not result in a classification

Other Hazards: No other hazards

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### 3. Composition/information on ingredients

#### Substances

no data available

#### Mixtures

Mixture identification: SpiritoZym MAM

#### Hazardous components within the meaning of the "Australian Work Health and Safety (WHS)" regulation and related classification:

Qty	Name	Ident. Numb.	Classification	Registration Number
1-10 %	amylase, α-	CAS:9000-90-2 EC:232-565-6	Resp. Sens. 1, H334	01-2119938627-26-xxxx

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### 4. First-aid measures

#### Description of necessary first-aid measures

In case of skin contact:

- Immediately take off all contaminated clothing.
- Remove contaminated clothing immediatley and dispose off safely.
- In case of persistent skin irritation consult a doctor.

In case of eyes contact:

- Wash immediately with water.

In case of Ingestion:

- Do not induce vomiting, get medical attention showing the SDS and label hazardous.

In case of Inhalation:

- Remove casualty to fresh air and keep warm and at rest.

#### Symptoms caused by exposure

no data available

#### Medical attention and special treatment

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

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### 5. Fire-fighting measures

#### Suitable extinguishing media

- Carbon dioxide (CO2).
- Dry chemical fire extinguisher.
- Foaming

Extinguishing media which must not be used for safety reasons:

- Full jet of water.

Specific hazards arising from the chemical

- Do not inhale explosion and combustion gases.

N.A.

Hazardous combustion products: no data available

Explosive properties: no data available

Oxidizing properties: no data available

#### Special protective equipment and precautions for fire-fighters

- Use suitable breathing apparatus .
- Wear suitable protective clothing (helmet, protective clothings, goggles, fire resistant gloves, boots) and protect respiratory organs (self contained breathing apparatus).
- Move undamaged containers from immediate hazard area if it can be done safely.
- Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

#### HazChem Code/Emergency Action code

N.A.

Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.

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### 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

- Wear personal protection equipment.
- Remove persons to safety.
- See protective measures under point 7 and 8.

#### Environmental precautions

- Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

#### **Methods and material for containment and cleaning up**

Wash with plenty of water.

Suitable material for taking up: absorbing material, organic, sand

Retain contaminated washing water and dispose it.

Dispose of the collected material in accordance with the current regulations.

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## **7. Handling and storage**

### **Precautions for safe handling**

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

### **Conditions for safe storage, including any incompatibilities**

Keep away from food, drink.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

Packaging materials:

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## **8. Exposure controls/personal protection**

### **Control parameters – exposure standards, biological monitoring**

No data available

### **Appropriate engineering controls**

no data available

### **Individual protection measures, such as personal protective equipment (PPE)**

Please see both sections 5 and 6 for information about personal protective equipment to be worn in an emergency (e.g.: fire or unintentional release of the substance).

Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers.

The final choice of protective equipment will depend upon a risk assessment.

Personal protective equipment selections vary based on potential exposure conditions and working conditions.

Eye protection:

Chemical risk goggles (with side protection).

Technical reference standard: UNI EN 166

Protection for skin:

Wear chemical resistant clothing.

Technical reference standard: UNI EN 13034

Wear chemical resistant safety shoes.

Technical reference standard: UNI EN 20345

Protection for hands:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Glove suitability and breakthrough time will differ depending on the specific use conditions.

Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions.

Use protective gloves that provides comprehensive protection.

Use protective gloves that provides comprehensive protection.

NBR (nitrile rubber) (Recommended thickness of the material: 0.4 mm; Permeation time: > 480 min)

UNI EN 420/UNI EN 374

Respiratory protection:

Depending on the potential for exposure, select respiratory protective equipment suitable for the specific conditions of use and in compliance with current legislation.

Half-face mask with combined filter

Technical reference standard for filters to be used in the presence of gases and vapours: UNI EN 14387

Combined filter: E-P2 (yellow-white colour)

Use respiratory protection where ventilation is insufficient or exposure is prolonged.

Thermal Hazards:

## 9. Physical and chemical properties

Physical State: Liquid

Appearance and colour: Liquid Amber

Odour: Characteristic

pH: 4.0 - 7.0 (20°C)

Melting point / freezing point: no data available

Initial boiling point and boiling range: no data available

Flash point: > 100°C

Evaporation rate: no data available

Flammability (Solid, Gas): no data available

Upper/lower flammability or explosive limits: no data available

Vapour pressure: no data available

Vapour density: no data available

Relative density: no data available

Solubility in water: no data available

Solubility in oil: no data available

Partition coefficient (n-octanol/water): no data available

Auto-ignition temperature: no data available

Decomposition temperature: no data available

Particle size: no data available ( Does not apply to liquid. )

Particle size distribution: no data available

Shape and aspect ratio: no data available

Specific surface area: no data available

Molecular weight: N.A.

Chemical formula: N.A.

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## 10. Stability and reactivity

### Reactivity

Stable under normal conditions

### Chemical stability

no data available

### Possibility of hazardous reactions

None in particular.

### Conditions to avoid

Stable under normal conditions.

### Incompatible materials

None in particular.

### Hazardous decomposition products

None.

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## 11. Toxicological information

### Information on toxicological effects

#### Toxicological Information of the Preparation

a) acute toxicity	Not classified Based on available data, the classification criteria are not met
b) skin corrosion/irritation	Not classified Based on available data, the classification criteria are not met
c) serious eye damage/irritation	Not classified Based on available data, the classification criteria are not met
d) respiratory or skin sensitisation	The product is classified: Respiratory Sensitisation, Category 1(H334)
e) germ cell mutagenicity	Not classified Based on available data, the classification criteria are not met
f) carcinogenicity	Not classified Based on available data, the classification criteria are not met
g) reproductive toxicity	Not classified Based on available data, the classification criteria are not met
h) STOT-single exposure	Not classified Based on available data, the classification criteria are not met

i) STOT-repeated exposure	Not classified Based on available data, the classification criteria are not met
j) aspiration hazard	Not classified Based on available data, the classification criteria are not met

## 12. Ecological information

### Ecotoxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

### List of Eco-Toxicological properties of the product

Not classified for environmental hazards.

No data available for the product

### Persistence and degradability

no data available

### Bioaccumulative potential

no data available

### Mobility in soil

no data available

### Other adverse effects

no data available

Ecotoxicological Data: N.A.

## 13. Disposal considerations

### Disposal methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

## 14. Transport information

Not classified as dangerous in the meaning of transport regulations.

### UN number

no data available

### UN proper shipping name

no data available

### Transport hazard class(es)

no data available

### Packing group, if applicable

no data available

### Environmental hazards

no data available

### Special precautions for user

ADG-Subsidiary hazards no data available

ADG-S.P.: no data available

Road and Rail (ADR-RID):

no data available

Air (IATA):

no data available

Sea (IMDG):

no data available

### Additional Information

no data available

### HazChem Code/Emergency Action code

no data available

## 15. Regulatory information

### Safety, health and environmental regulations specific for the product in question

This Safety Data Sheet has been prepared according to the Australian Work Health and Safety (WHS) act and the Code of Practice on preparation of safety data sheets for Hazardous Chemicals.

**List of substances included in the NICNAS:**

None Specified

**List of substances included in the AICS inventory:**

amylase, α-

**Poison Schedule (SUSMP):**

None Specified

**List of substances included in the AIIC:**

All substances are listed on AIIC

**List of substances included in the AICIS inventory:**

All substances are listed on AICIS

SpiritoZym MAM

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**16. Other information**

Code	Description
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Code	Hazard class and hazard category	Description
3.4.1/1	Resp. Sens. 1	Respiratory Sensitisation, Category 1

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

- ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities
- SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

Legend to abbreviations and acronyms used in the safety data sheet:

- ACGIH: American Conference of Governmental Industrial Hygienists
- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
- AND: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
- ATE: Acute Toxicity Estimate
- ATEmix: Acute toxicity Estimate (Mixtures)
- BCF: Biological Concentration Factor
- BEI: Biological Exposure Index
- BOD: Biochemical Oxygen Demand
- CAS: Chemical Abstracts Service (division of the American Chemical Society).
- CAV: Poison Center
- CE: European Community
- CLP: Classification, Labeling, Packaging.
- CMR: Carcinogenic, Mutagenic and Reprotoxic
- COD: Chemical Oxygen Demand
- COV: Volatile Organic Compound
- CSA: Chemical Safety Assessment
- CSR: Chemical Safety Report
- DMEL: Derived Minimal Effect Level
- DNEL: Derived No Effect Level.
- DPD: Dangerous Preparations Directive
- DSD: Dangerous Substances Directive
- EC50: Half Maximal Effective Concentration
- ECHA: European Chemicals Agency
- EINECS: European Inventory of Existing Commercial Chemical Substances.
- ES: Exposure Scenario
- GefStoffVO: Ordinance on Hazardous Substances, Germany.
- GHS: Globally Harmonized System of Classification and Labeling of Chemicals.
- IARC: International Agency for Research on Cancer
- IATA: International Air Transport Association.
- IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
- IC50: half maximal inhibitory concentration

ICAO: International Civil Aviation Organization.  
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).  
IMDG: International Maritime Code for Dangerous Goods.  
INCI: International Nomenclature of Cosmetic Ingredients.  
IRCCS: Scientific Institute for Research, Hospitalization and Health Care  
KAFH: KAFH  
KSt: Explosion coefficient.  
LC50: Lethal concentration, for 50 percent of test population.  
LD50: Lethal dose, for 50 percent of test population.  
LDLo: Leathal Dose Low  
N.A.: Not Applicable  
N/D: Not defined/ Not available  
NIOSH: National Institute for Occupational Safety and Health  
NOAEL: No Observed Adverse Effect Level  
OSHA: Occupational Safety and Health Administration  
PBT: Persistent, Bioaccumulative and Toxic  
PGK: Packaging Instruction  
PNEC: Predicted No Effect Concentration.  
PSG: Passengers  
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.  
STEL: Short Term Exposure limit.  
STOT: Specific Target Organ Toxicity.  
TLV: Threshold Limiting Value.  
TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).  
vPvB: Very Persistent, Very Bioaccumulative.  
WGK: German Water Hazard Class.