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1- Identification of the substance/preparation and of the company/undertaking

PRODUCT NAME: EnterocinPRODUCT NUMBER: PB0019

CAS #: 59678-46-5SYNONYMS: Vulgamycin

MOLECULAR FORMULA: C₂₂H₂₀O₁₀
 MOLECULAR WEIGHT: 444.4
 DETAILS OF THE MANUFACTURER:

INSTITUTO BIOMAR, S.A.

PARQUE TECNOLÓGICO DE LEÓN PARCELA M10.4 24009 ARMUNIA (LEÓN) SPAIN TELF: +34987849200 FAX: +34987849203

e-mail: <u>info@biomarmt.com</u> <u>www.biomarmt.com</u>

2- Composition/information on ingredients

Chemical characterization: Substances
 CAS No. Description: 59678-46-5 Enterocin
 Identification number(s): Not applicable

3- Hazards identification

PHYSICAL/CHEMICAL HAZARDS: Not determined
 HUMAN HEALTH HAZARDS: Not determined

4- First-aid measures

Description of first aid measures

- General information: Consult a physician. Show this safety data sheet to the doctor in attendance.
 - **AFTER INHALATION:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.



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- **AFTER INGESTION:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
- AFTER SKIN CONTACT: Wash off with soap and plenty of water. Consult a physician.
- **AFTER EYE CONTACT:** Rinse opened eye for several minutes under running water. Check for and remove contact lenses. If symptoms persist, consult a physician.
- AFTER AGGRAVATING CONDITIONS:

Indication of any immediate medical attention and special treatment needed.

No further relevant information available

5- Fire-fighting measures

- FLAMMABILITY OF THE PRODUCT:
- **EXTINGUISHING MEDIA:** CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- HAZARDOUS THERMAL (de) COMPOSITION PRODUCTS: No further relevant information available.
- SPECIAL FIRE-FIGHTING PROCEDURES:
- PROTECTION OF FIRE-FIGHTERS: Wear self-contained respiratory protective device. Do not inhale explosion gases or combustion gases. Wear fully protective suit.

6- Accidental release measures

- PERSONAL PRECAUTIONS PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:
 Avoid formation of dust.
 Wear protective clothing.
- ENVIRONMENTAL PRECAUTIONS: No special measures required.
- METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

7- Handling and storage

- HANDLING PRECAUTIONS FOR SAFE HANDLING: No special measures required.
- STORAGE CONDITIONS FOR SAFE STORAGE, INCLUIDING ANY INCOMPATIBILITIES:
 Store tightly sealed in a cool, dry and well ventilated location (see label for storage temperature and additional specific information). Keep away from heat, sources of ignition and incompatibles such as oxidizing agents.



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8- Exposures controls / personal protection

- ADDITIONAL INFORMATION ABOUT DESIGN OF TECHNICAL FACILITIES: No further data.
- CONTROL PARAMETERS INGREDIENTS WITH LIMIT VALUES THAT REQUIRE MONITORING AT THE WORKPLACE: Not required.
- EXPOSURE CONTROLS:
- PERSONAL PROTECTIVE EQUIPMENT:

Skin and body: Protective gloves. The glove material has to be impermeable and resistant to the product/ the substance/ thepreparation.

Due to missing tests no recommendation to the glove material can be given for the product/thepreparation/the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and thedegradation

Eyes: Safety glasses

- RESPIRATORY PROTECTIONS: Work in a fumehood.
- **GENERAL HIGIENIC MEASURES:** The usual precautionary measures when handling chemicals.

9- Physical and chemical properties

- INFORMATION ABOUT BASIC PHYSICAL AND CHEMICAL PROPERTIES:
- APPEARANCE: SolidCOLOR: Brownish
- MOLECULAR WEIGHT: 444.4
- SOLUBILITY: Good in MeOH, EtOAc, acetone, water, Pyridine, base, fairly in Chl, Et₂O
- FLASH POINT: Not applicable
- EXPLOSIVE PROPERTIES: Product does not present an explosion hazard.

10-Staility and reactivity

- REACTIVITY:
- CHEMICAL STABILITY: Stable. Avoid strong oxidizing agents.
- THERMAL DECOMPOSITION: No decomposition if used according to specifications.
- **CONDITIONS TO AVOID:** No further relevant information available.
- HAZARDOUS DECOMPOSITION PRODUCTS: No dangerous decomposition products known.
- **INCOMPATIBLE MATERIALS:** No further relevant information available.



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11-Toxycological information

- RTECS#:
- LOCAL EFFECTS:
- SKIN IRRITATION: Not determined
- ACUTE TOXICITY: LD50=(1000/500, ip) (1000, per os)
- CHRONIC TOXICITY: Not data available
- OTHER TOXI EFFECTS ON HUMANS: Not data available
- CARCINOGENIC EFFECTS: MUTAGENIC EFFECTS: Not data available
- **REPRODUCTION TOXICITY:** Not data available
- TERATOGENIC EFFECTS: Not data available

12-Ecological information

- **ECOTOXICITY:** No further relevant information available.
- TOXICITY OF THE PRODUCTS OF: No further relevant information available.
- BIODEGRADATION: (Persistence and degradability) No further relevant information available.

13-Disposal considerations:

 METHODS OF DISPOSAL: WASTE OF RESIDUES; Smaller quantities can be disposed of with household waste.

CONTAMINATED PACKAGING: Disposal must be made according to official regulations.

14-Transport information

- · UN-Number Not applicable
- · UN proper shipping name Not applicable
- · Transport hazard class(es) Not applicable
- · Packing group Not applicable
- · Environmental hazards:
- · Marine pollutant: No
- · Special precautions for user: Not applicable.
- Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code: Not applicable



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15-Regulatory information

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16-Other information

It is the user's responsibility to determine the suitability of this information for adoption of necessary safety precautions. *This product is intended for research use only* and should be handled and used only by experienced personnel. Instituto Biomar S.A shall not be held liable for any damage resulting from the use of this product.