

**Safety Data Sheet – United Fisheries Ltd**  
**Bio Marinus BIOLOGICAL**  
**(Bio Gro Certified Input)**

### 1. Identification

**Product Name:** Bio Marinus BIOLOGICAL

**UN Number:** Not Applicable

**Recommended Use:** Fertiliser

**Proper Shipping Name:** Not Applicable

**Description:** Bio Marinus BIOLOGICAL is manufactured by the process of enzymatic hydrolysis of fish offal followed by stabilisation.

### Manufacturer & Supplier

**Name:** United Fisheries Limited

**Phone:** 03 343 0587

**Address:** 50-58 Parkhouse Road

**Email:** [biomarinus@unitedfisheries.co.nz](mailto:biomarinus@unitedfisheries.co.nz)

Wigram

**Website:** [www.biomarinus.co.nz](http://www.biomarinus.co.nz)

Christchurch 8042

**Emergency Contacts:** Emergency Services (Fire, Ambulance, Police) – Dial 111  
National Poisons Information Centre – 0800 764 766 (0800 POISON)

### 2. Hazard Identification

#### Statement of Hazardous Nature:

This product is not classified as hazardous according to the criteria of the *Hazardous Substances (Hazard Classification) Notice 2020*.

Not classified as a Dangerous Good according to NZS 5433.

### 3. Composition & Information on Ingredients

Ingredient	CAS Number	Concentration (%)
Enzyme hydrolysed fish offal	-	>95%
Stabilising acid (sulphuric acid)	7664-93-9	<1.8%

### 4. First Aid Measures

If medical advice is needed, have product container or label at hand.

New Zealand Poisons & Hazardous Chemicals  
National Information Centre  
phone 0800 POISON – 0800 764 766

**Skin:** IF ON SKIN, wash with mild soap and running water. If symptoms develop, seek medical advice.

**Ingestion:** IF SWALLOWED, do not induce vomiting. Give a few sips of water or milk to drink. Do not give excessive fluids. If symptoms develop, seek medical advice.

**Eyes:** IF IN EYES, immediately rinse cautiously with water for several minutes. Remove contact lenses, if present. Continue rinsing. If eye irritation persists, seek medical advice.

**Inhalation:** IF INHALED, remove person to fresh air and keep comfortable for breathing

**Advice to Doctor:** Treat symptomatically.

### 5. Fire Fighting Measures

**Flammability:** Non-flammable.

products typical of burning organic material may be formed.

**Extinguishing media:** Use appropriate for surrounding materials. Prevent contamination of drains or water ways.

**Fire Fighting Instructions:** Treat as per requirements for surrounding fires. Evacuate area and contact emergency services.

**Hazardous Combustion products:** Toxic gases such as carbon dioxide, nitrogen oxides and other pyrolysis

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## 6. Accidental Release Measures

**Spills:** Use appropriate PPE as detailed in section 8 below. Absorb spill with sand or with appropriate spill kit/equipment. Prevent spill from entering storm water and sewer drains and watercourses. Collect and place in sealable containers for disposal (or re-use if applicable). Wash spill area with water, but avoid washings to enter waterways or stormwater drains.

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## 7. Handling & Storage

### Safe Handling

Use of safe work practices are recommended to avoid eye or skin contact. Wear protective gloves/clothing and eye protection.

Wash hands after use.

Storage and work areas should be well ventilated.

Before use carefully read the product label and follow application information for dilution and dosage rates. Do not store in diluted form.

Keep out of reach of children.

### Storage

Store in cool, dry, well ventilated area, away from direct sunlight.

Removed from foodstuffs.

Ensure containers are labelled, protected from physical damage and sealed when not in use.

Certified Handler: Not required

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## 8. Exposure Controls & Personal Protection

### Exposure Standards

No exposure limits set for this product. Below is the workplace exposure limits for its ingredients:

#### **Workplace Exposure Standards (WES):**

Ingredient	CAS Number	TWA	STEL
Sulphuric Acid	7664-93-9	0.1 mg/m <sup>3</sup>	-

Data source: *Workplace Exposure Standards and Biological Indices (14<sup>th</sup> Edition, Nov 2023, WorkSafe)*

**Biological Exposure Indices (BEI):** No biological exposure indices have been set for this product or its ingredients.

### Engineering Controls

**Ventilation:** Use in a well-ventilated area – optimise natural airflows.

### Personal Protection (PPE)

**Eyes/Face:** Wear splash resistant safety glasses or safety goggles (AS/NZS 1337)

**Skin:** Wear overalls and gloves. Contaminated work clothing should not be allowed out of the workplace

**Respiratory:** If spraying, respiratory protection should be worn.

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## 9. Physical & Chemical Properties

**Appearance and Colour:** Liquid – Brown

**Odour:** Slight fish odour

**Odour threshold:** No data available

**pH:** 3.0 – 3.5

**Melting point:** Not Applicable

**Boiling point:** No data available

**Flash point:** Not Applicable

**Flammability:** Not Applicable

**Lower Flammability Limit (LEL):** Not Applicable

**Upper Flammability Limit (UEL):** Not Applicable

**Vapour pressure:** No data available

**Vapour density:** No data available

**Relative density:** 1.08

**Solubility (water):** Soluble

**Partition coefficient: n-octanol/water:** No data available

**Autoignition temp:** Not Applicable

**Decomposition temp:** No data available

**Viscosity (kinematic):** No data available

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## 10. Stability & Reactivity

**Stability:** Stable.

**Reactivity:** No specific reactions expected

**Conditions to avoid:** High temperatures

**Incompatible Materials:** Oxidising agents, strong acid and alkalis

**Hazardous decomposition products:** No data available

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## 11. Toxicological Information

Health Effects / Symptoms of Exposure

### **Acute Exposure**

**Eyes:** May cause irritation.

**Skin:** May cause irritation.

**Ingestion:** Low toxicity. May result in nausea, vomiting and diarrhoea.

**Inhalation:** Low toxicity. May be irritant to mouth, nose and eye.

**Aspiration Hazard:** Not classified

### **Chronic Exposure**

**Respiratory or Skin sensitisation:** Not classified

**Mutagenicity:** Not classified

**Carcinogenicity:** Not classified

**Reproductive Toxicity:** Not classified

**Specific Target Organ Toxicity (STOT):** Not classified

Toxicological Data

No data is available for this product as a whole or its ingredients.

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## 12. Ecological Information

**Persistence in environment:** Not persistent

**Biodegradability:** Readily degradable

**Bioaccumulative:** No data available

**Mobility in soil:** No data available

Ecotoxicological Data

No data available for this product as a whole or its ingredients.

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## 13. Disposal Considerations

Fertilisers should be applied to land at the recommended dosage rates.

Do not allow into drains, sewers or watercourses. Surplus or contaminated product unable to be used for intended purpose may be able to be disposed of at an approved landfill, check with your local council. Disposal waste contractors must comply with the New Zealand Hazardous Substances (Disposal) Notice 2017.

Containers may only be recycled if clean and free of residue so as to be non-hazardous.

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## 14. Transport Information

Not classified as a Dangerous Good according to NZS 5433:2020, UN Model Regulations, IATA and/or IMDG.

**Proper Shipping Name:** Not applicable.

**UN Number:** Not applicable.

**DG Class:** Not applicable.

**Subsidiary Risk:** Not applicable.

**Packing Group:** Not applicable.

**Marine Pollutant:** Not applicable.

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## 15. Regulatory Information

### HSNO Approval

This product is not classified as hazardous according to the criteria of the *Hazardous Substances (Hazard Classification) Notice 2020*.

All ingredients are listed in the NZIoC.

**HSNO Group Standard:** Not Applicable

Certified Handler: Not required

Tracking: Not required

Controlled Substance Licence: Not required

Fertilisers are not required to be registered under [Agricultural Compounds and Veterinary Medicines Act 1997](#) but some requirements of ACVM Act will apply.

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## 16. Other Information

### Abbreviations / Terminology:

AS/NZS	Joint Australian New Zealand Standard
AS/NZS 1337	Personal eye-protection
CAS #	Chemical Abstract Service number (a unique identifier for chemicals)
CCID	New Zealand Chemical Classification and Information Database
HSNO	(New Zealand) Hazardous Substances and New Organisms Act
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods Code
NZIoC	New Zealand Inventory of Chemicals
NZS 5433	Transport of Dangerous Goods on Land
TWA	Time Weighted Average
STEL	Short Term Exposure Limit

Prepared with reference to:

- *Hazardous Substances (Safety Data Sheets) Notice 2017*, published by Environmental Protection Authority, New Zealand.

### Revision Information:

SDS may be revised from time to time, please ensure you have a current copy.

Previous version 1.4 dated: 20 May 2022

This version 1.5 dated: 9 July 2024

### Disclaimer:

This safety data sheet attempts to describe as accurately as possible the potential exposures associated with normal use of the product described herein. Health and safety precautions in the data sheet may not be adequate for all individuals and/or situations. Users have the responsibility to evaluate and use this product safely and to comply with all applicable laws and regulations.

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