

Safety Data Sheet – United Fisheries Ltd
Bio Marinus FISH SILAGE
(Bio Gro Certified Input)

1. Identification

Product Name: Bio Marinus FISH SILAGE

UN Number: Not Applicable

Recommended Use: Fertiliser

Proper Shipping Name: Not Applicable

Description: Bio Marinus FISH SILAGE 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

Wigram

Website: 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 (citric acid)	77-92-9	<3.5%

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.

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

Advice to Doctor: Treat symptomatically.

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.

5. Fire Fighting Measures

Flammability: Non-flammable.

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

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

products typical of burning organic material may be formed.

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

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.

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

8. Exposure Controls & Personal Protection

Exposure Standards

No exposure limits set for this product or its ingredients in the *Workplace exposure standards and biological indices* (14th 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.

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

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

11. Toxicological Information

Health Effects / Symptoms of Exposure

Acute Exposure

Eyes: May cause irritation.

Skin: Not expected to be irritating.

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.

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.

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.

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.

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.

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

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.

Whilst the information contained in this document is based on data, which, to the best of our knowledge, was accurate and reliable at the time of preparation, no warranty or responsibility can be accepted by us for errors and omissions. The provision of this information should not be construed as a recommendation to use any of our products in violation of any patent rights or in breach of any statute or regulation. Users are advised to make their own determination as to the suitability of this information in relation to their particular purposes and specific circumstances. Since the information contained in this document may be applied under conditions beyond our control, no responsibility can be accepted by us for any loss or damage caused by any person acting or refraining from action as a result of this information.

--END OF SDS