

Section 1: Identification of the Substance and the Supplier.

Product Name: **Bio-Zyme Industrial**
Recommended use: Enzyme based concentrate
Company details: Bio-Zyme NZ Ltd
Address: 12 Wigram Close, Sockburn
PO Box 323, Christchurch 8140
Telephone number: 0800 24 69 96
Email: office@biozyme.co.nz
Emergency Phone No: 0800 243 622 (0800 CHEMCALL) for out of hours advice

Section 2: Hazards identification

Road and Rail Transport: Not Classified as a Dangerous Good under NZS 5433:2007 (Transport of Dangerous Goods on Land)

SIGNAL WORD: Warning

HSNO classifications:	GHS classifications:
6.3 B	May cause skin irritation
6.4 A	Eye irritation Category 2

EPA NZ Approval: HSR 002530 Cleaning Products (Subsidiary) Group Standard



Hazard Statement(s):

H316 – Causes mild skin irritation.
H320 – Causes eye irritation.

Precautionary Statements

Prevention:

P103 – Read label before use.
P264 – Wash hands thoroughly after handling.

Response:

P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P332+P313 – If skin irritation occurs: Get medical advice/attention.
 P337+P313 – If eye irritation persists: Get medical advice/attention.

Disposal:

P501 Dispose of contents and container in accordance with relevant legislation. For additional information see section 13 of this SDS.

Section 3: Information on Ingredients

Components	CAS Number	Proportion
Non-Ionic Surfactant	68439-46-3	1-5 % w/w
Lactic Acid	79-33-4	0-5 % w/w
Pine Oil	98-55-5	0-5 % w/w
Non Hazardous ingredients incl water	-	Balance to 100%

Section 4: First Aid Measures

First Aid: Call a Doctor or National Poisons Centre 0800 POISON (0800 764 766) following first aid treatment.

Skin Contact: Rinse skin with plenty of water. Remove contaminated clothing and wash before re-use. If skin irritation or rash occurs get medical advice

Eye Contact: Rinse with water for several minutes, remove contact lenses if present and easy to do, continue rinsing.
 Call a POISON CENTRE or doctor for advice.

Ingestion: Rinse mouth, do **NOT** induce vomiting.
IMMEDIATELY call a POISONS CENTRE or doctor.

Inhalation: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.

Medical attention and special treatment: Treat symptomatically

Section 5: Fire Fighting Measures

Hazards from combustion products: Normally stable. Under extreme heat organic vapours of carbon, nitrogen and sulphur may evolve.

Precautions for fire fighters and special protective equipment: Wear self-contained breathing apparatus and protective clothing when in close proximity or in confined spaces.

Suitable extinguishing media: All means of extinguishing are acceptable.

Hazchem: N/A

Section 6: Accidental Release Methods

Personal Protective Equipment advice is contained in Section 8 of this SDS.

Method and materials for containment and clean up: Contain spill with sand or other absorbent material and transfer to plastic drums for approved disposal. Wash away small spills with water. Avoid contamination of waterways

Section 7: Handling and Storage

Personal Protective Equipment advice is contained in Section 8 of this SDS.

Precautions for safe handling: Normal work and hygiene practices for handling non-hazardous liquid material. Avoid contact with eyes.

Conditions for safe storage: Store in suitable label containers. Keep out of reach of children.

Section 8: Exposure controls/Personal protection

Workplace Exposure guidelines: Minimise exposure by good ventilation. Consider use of respirator if working in confined or unventilated spaces

Ventilation specification: Minimise exposure by good ventilation. Consider use of respirator if working in confined or unventilated spaces.

Personal Protective equipment: Wear protective gloves, eye protection and safety footwear.

Section 9: Physical and Chemical Properties

PHYSICAL PROPERTIES

PROPERTY	VALUE
State:	Liquid
Colour:	Dark brown
Odour:	Pine fragrance
Odour threshold:	Not applicable
Freezing point:	No data available
Melting range:	No data available
Boiling range:	No data available
Solubility in water:	100%
Evaporation rate:	No data available
Specific gravity:	1.02 @ 20°C
pH:	4.0 approx
Flash point:	Not applicable
Flammability:	Not applicable- non flammable
Upper/lower flammability limits:	Not applicable
Auto ignition temperature:	Not applicable
Vapour pressure:	No data available
Vapour density:	No data available
Decomposition temperature:	No data available

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

Section 10: Stability and Reactivity

Chemical Stability:	Stable under normal conditions
Conditions to avoid:	Heat
Material to avoid:	None known
Hazardous reactions:	Under normal conditions of storage and use, hazardous decomposition products will not occur.

Section 11: Toxicological Information

Ingestion:	<p>ENDPOINT: LD50</p> <p>VALUE: >5000 mg/kg</p> <p>REFERENCE: Calculated based on component chemicals using mixture rules set out in the following:</p> <p>http://www.ermanz.govt.nz/resources/publications/pdfs/Assigning%20a%20Hazardous%20Substance%20to%20a%20Group%20Standard.pdf</p>
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Eye contact:	Irritant
Skin contact:	Irritant
Inhalation:	Not Determined
Long term effects:	Not Determined

Acute toxicity:	No known significant effects or critical hazards.
Skin irritation/Corrosion:	Causes mild skin irritation
Serious eye: Damage/irritation:	Causes eye irritation.
Respiratory or Skin sensitisation:	Causes mild skin irritation
Mutagenicity:	X
Carcinogenicity:	X
Reproductivity:	X
STOT – Single exposure:	X
STOT – Repeated exposure:	X
Aspiration Hazard:	X
Narcotic effect:	X
X=	Data either not available or does not fill the criteria for classification.

Section 12: Ecological information

Ecotoxicity:	Not considered to be a hazard in the environment, but must be used as per manufacturers instruction
Biocumulative & degradability	Readily biodegradable.
Mobility in soils:	Yes, being a liquid mobile in soils.
Bioaccumulation:	No known or significant effects or critical hazards.
Other adverse effects:	No known or significant effects or critical hazards.

Section 13: Disposal considerations

Product:

Recycle if possible.
Dispose spent solution to sewer.
Avoid contamination of waterways.

Packaging:

Recycle if possible. All containers are recyclable.
Packaging if not recycled should be rendered incapable of containing any material.
Puncture containers to prevent reuse and take to an authorised landfill.

Section 14: Transport information

Road and Rail Transport:	Not Classified as a Dangerous Good under NZS 5433:2007 (Transport of Dangerous Goods on Land)
Marine, Air Transport:	Similar listing as for Road and Rail Transport apply

Section 15: Regulatory Information

EPA NZ Approval: HSR 002530 Cleaning Products (Subsidiary) Group Standard
MPI Approved (all animal products except dairy) C32
BioGro Organic certification: Certified Input for Organics #4839

Section 16: Other information

Disclaimer: This SDS summarises our best knowledge at the date of issue, the chemical health and safety limits of the material and general guidance on how to safely handle the material in the workplace. Since Bio-Zyme NZ Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material. If clarification or further information is needed, the user should contact Bio-Zyme NZ Ltd

Revision History: Version 2.1 created on August 2010.

Updated to version 2.2 on August 2013. Reason for update: Periodical Review

Updated to version 2.3 on May 2018. Reason for update: Section 2, 7 & 8 updated.

Updated to version 2.4 in August 2019. Reason for update Section 3 & 12 updated

Updated to version 2.5 on October 2022. Reason for update: GHS classification.