BIO-UB

SAFETY DATA SHEET - SDS VERSION 2.0, 22ND SEPTEMBER 2023.

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product name:	Bio-UB (Under Bench).
Recommended use:	Grease trap enzyme and probiotic bacteria.
Supplier name:	Biochem Solutions Ltd.
Address:	Unit 2, 28 Maich Rd, Manurewa, Auckland, New Zealand.
Phone:	+64 27 5888 437
Emergency Telephone:	New Zealand: 0800 764 766 (NZ NATIONAL POISON CENTRE). International: +643 479 7227.

2. HAZARD IDENTIFICATION

Hazard Classification: **HAZARDOUS** according to GHS (Globally Harmonised System of Classification and Labelling of Chemicals) criteria.
Signal word: Danger**.**
Symbol/s: Health, Corrosion, Exclaimation mark.

Hazard Categories:
- Skin corrosion / irritation - Category 2.
- Eye damage / irritation - Category 1.
- Sensitisation - Respiratory - Category 1B.
- Reproductive Toxicity - Category 2.
- Hazardous to the terrestrial environment - Designed for biocidal action.

Hazard statement/s:
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H334 May cause allergy or asthma symptoms.
- H361 Suspected of damaging fertility or the unborn child.
- Designed for biocidal action.

Prevention statement/s:
- P102 Keep out of reach of children.
- P103 Read label before use.
- P201 Obtain special permission before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P261 Avoid breathing dust/fumes/gas/mist/vapours/spray.
- P264 Wash hands/skin thoroughly after handling.
- P273 Avoid release to the environment unless it is meant for the environment.
- P280 Wear protective gloves and eye/face protection.
- P284 In case of inadequate ventilation, wear respiratory protection.

Response statement/s:
- P302 + P352 IF ON SKIN (or hair): Rinse skin with plenty of water.
- P332 + P313 If skin irritation occurs, get medical advice/attention.
- P362 + P364 Take off contaminated clothing and wash before reuse.
- P305 + P351 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove any contact lenses. Continue rinsing. Immediately call a poison centre or doctor.
- P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P342 + P311 If experiencing respiratory symptoms, call a poison centre or doctor.
- P308 + P313 IF EXPOSED OR CONCERNED: Get medical advice/attention.

Hazard storage statement/s: P405 Store locked up.
Disposal statement: P501 Dispose of product and packaging in accordance with local regulations.
The information contained in this SDS is specific to the product when handled and used neat. This product when diluted/mixed may not require the same control measures as the neat product. Check with your technical representative if in doubt.

3. COMPOSITION / INFORMATION ON INGREDIENTS

At the levels used in the product, these ingredients are considered either hazardous or dangerous goods according to GHS criteria:

INGREDIENT	CAS No.	PROPORTION (%)
Subtilisin	**9014-01-1**	**0.5 - 2%**
Boric Acid	**10043-35-3**	**0.5 - 2%**
Enzymes	**9000-90-02; 9014-01-1; 9001-62-1; 9012-54-8; 37288-54-3**	**5 - 10%**

4. FIRST AID MEASURES

Ingestion: Drink a glass of water. Do NOT induce vomiting.
Eye contact: Flush with water for several minutes. Remove any contact lenses. Continue rinsing for at least 15 minutes.
Skin contact: Wash hands thoroughly after handling.
Inhalation: Remove from source of exposure to fresh air.

5. FIRE FIGHTING METHODS

General: Evacuate non-emergency personnel. Eliminate ignition sources and move chemicals from fire area if this can be done without risk.
Extinguishing media: No specific media for this product.
Flammability conditions: Neither flammable, nor combustible.
Fire and explosion hazards: No known risks from this product.
Hazards from combustion: Packaging may release toxins when burning.
PPE: Fire fighters should wear standard equipment for dealing with chemical fires.
Hazchem code: None.

6. ACCIDENTAL RELEASE MEASURES

General procedure: Evacuate unnecessary personnel. Stop leak if safe to do so. Avoid walking in product as it may be slippery.
Clean up procedures: Collect what you can and transfer to suitable, labelled, chemical-waste containers and dispose of as hazardous waste. Wash area down with excess water.
Environmental precautions: May be harmful to the terrestrial environment (bulk, neat product).
PPE: Gloves, eye protection and face/dust mask are recommended.

7. HANDLING AND STORAGE

Handling: Observe good personal hygiene practices. Wash hands thoroughly after handling.
Storage: Store locked up, out of direct sunlight, away from foodstuffs and children. Label containers adequately and keep sealed when not in use.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure/biological limits: No information available.
Engineering measures: Keep an eyebath handy and ready to use.
PPE: INHALATION: Face/dust mask or organic vapour respirator. EYES: Splash proof goggles. HANDS: Nitrile or neoprene gloves. CLOTHING: Chemical-resistant coveralls, splash apron and safety footwear are recommended for handling any chemicals.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance:	Brownish opaque liquid.
Odour:	Unfragranced.
pH:	No information available.
Specific gravity:	No information available.
Boiling point (°C):	No information available.
Flammability:	Not flammable.
Flash point:	Does not flash.
Vapour pressure/density:	No information available.
Relative density:	No information available.
Auto ignition temperature:	No information available.
Solubility in water:	Complete.
Shelf life:	2 years from date of manufacture (when stored as directed).

10. STABILITY AND REACTIVITY

Chemical stability: Product is stable under normal conditions of use, storage and temperature.
Conditions to avoid: None known.
Materials to avoid: None known.
Hazardous decomposition: None known.
Hazardous polymerisation: No information available.

11. TOXICOLOGICAL INFORMATION

Eyes: Causes severe irritation to the eyes. Rinse well with clean water.
Skin: May irritate the skin. Rinse off with clean water.
Ingestion: May cause transient discomfort. One of the ingredients (Boric acid) is suspected of causing damage to fertility and any foetus/unborn child, although epidemiological studies of exposed workers and general population show no reproductive or developmental effects.
Inhalation: Inhalation may cause allergic respiratory reactions, including asthma, in susceptible individuals on repeated exposure.

12. ECOLOGICAL INFORMATION

Persistence/degradability: Readily biodegradable..
Mobility: No information available.
Environmental fate: Do NOT allow product to reach waterways drains and sewers, unless this is the intended use.
Bioaccumulation potential: No information available.

13. DISPOSAL CONSIDERATIONS

Disposal methods: Dispose of in accordance with all local and regional council regulations. All empty packaging should be disposed of in accordance with the rules of your local recycling/waste facility.
Landfills: Contact a specialist disposal company or the local waste regulator for advice.

14. TRANSPORT INFORMATION

NOT classified as DANGEROUS GOODS by the by the NZ Transport Agency - Land Transport Rule (2005).

15. REGULATORY INFORMATION

Country/Region: New Zealand
Status: Classified as Hazardous according to GHS, but not DG for transport.
HSNO classifications: 6.3A, 6.5A, 6.8B, **8.3A, 9.1D (Biocidal).**
Group Standard: HSR002530 - Cleaning Products (Subsidiary Hazard) Group Standard 2020.

16. OTHER INFORMATION

SDS issue number: 2.0 - This issue number replaces all previous issues.
SDS issue date: 22/09/2023.
Reason(s) for issue: GHS-7 update.
In any event, the review and, if necessary, the re-issue of a SDS shall be no longer than 5 years after the last date of issue.

17. LEGEND

EPA	Envronmental Protection Authority (NZ)
GHS	Globally Harmonised System
PPE	Personal Protective Equipment
SDS	Safety Data Sheet
STEL	Short Term Exposure Limit. A 15-min TWA exposure, (don't exceed during a working day, even if the 8-hr TWA avg is within the TWA exposure standard. Exposures at the STEL should not exceed 15-min and should not be repeated more than 4 times per day. There should be at least 60-min between successive exposures at the STEL.
TLV	Threshold Limit Value. Refers to airborne concentrations of substances or levels of physical agents to which it is believed that nearly all workers may be repeatedly exposed day after day without adverse effect.
TWA	Time Weighted Average. The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day working week.

This SDS has been prepared from current technical data (EPA and Worksafe NZ guidelines) & summarises at the date of issue our best knowledge of the health and safety information of the product and in particular how to safely handle and use the product in the workplace, If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company. Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available upon request. This SDS may only be reproduced in full, as summaries/excerpts may not contain all the relevant information and thus are not permitted.

End of SDS