



BIO-BUGS

SAFETY DATA SHEET - SDS VERSION 2.0, 27TH JULY 2023.

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product name: Bio-BUGS.
 Recommended use: A biological grease/organic material converter and odour eliminator.
 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, Exclamation mark.



Hazard Categories:

- Skin corrosion / irritation - Category 2.
- Sensitisation - Respiratory - Category 1B.
- Eye damage / irritation - Category 1.

Hazard statement/s:

- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H334 May cause allergy or asthma symptoms.

Prevention statement/s:

- P261 Avoid breathing/inhaling dust.
- P264 Wash hands thoroughly after handling.
- P280 Wear protective gloves, goggles and dust mask or ventilator.

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 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove any contact lenses. Continue rinsing.
- P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P308 + P313 If you have breathing problems, are exposed/concerned, or any irritation persists: Call poison centre/doctor for advice/attention.

Storage statement: None.

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 (%)
Citric Acid	77-92-9	10 - 50%
Protinase	9001-92-7	10 - 26%
Sodium (C14-C16) Olefin Sulfonate	68439-57-6	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.

Precautions for fire fighters: No special instructions for this product.

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. Do not inhale dust.

Clean up procedures: Sweep up what you can and transfer to suitable, labelled, dry chemical-waste containers and dispose of as hazardous waste. Wash area down with excess water.

Environmental precautions: No known risks.

PPE: Gloves, dust mask/ventilator and eye protection are recommended.

7. HANDLING AND STORAGE

Handling: Observe good personal hygiene practices. Wash hands thoroughly after handling. Do not ingest or inhale product.

Storage: Store 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: Blue powder.

Odour: Yeast-like.

pH: 5.5 - 6.5.

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: 1.98.

Auto ignition temperature: No information available.

Solubility in water: Miscible.

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 burning and irritation to the eyes. Rinse well with clean water. Seek medical treatment if symptoms persist.

Skin: May cause mild, transient irritation. Rinse off with clean water.

Ingestion: May cause mild, transient discomfort.

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: No known risks.

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, **8.3A**.

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: 27/07/2023.

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 Environmental 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