

Infosafe No™ 3NUBW	Issue Date : February 2024	ISSUED by NUFARMNZ
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 Product Name **SLUGOUT®**

Section 1 - Identification

Product Identifier	SLUGOUT®
Product Code	04922
Product Type	Molluscicide
Company Name	Nufarm NZ
Address	Central Park, Building 3, Level 4, 666 Great South Road Ellerslie Auckland 1051 New Zealand
Telephone/Fax Number	Tel: 0-9-270 4150
Emergency Phone Number	0800 651 911
Email	nzinfo@nufarm.com
Recommended uses and any restrictions on use or supply	All weather slug and snail bait.

Section 2 - Hazard(s) Identification

GHS classification of the substance/mixture	Reproductive toxicity: Category 2 Specific target organ toxicity - repeated exposure: Category 2 Hazardous to the terrestrial environment: Designed for biocidal action
Signal Word (s)	WARNING
Hazard Statement (s)	H361 Suspected of damaging fertility or the unborn child H371 May cause damage to organs H402 Harmful to aquatic life
Precautionary Statement – General	P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P103 Read carefully and follow all instructions.
Pictogram (s)	Health hazard



Precautionary Statement – Prevention	P202 Do not handle until all safety precautions have been read and understood P281 Use personal protective equipment as required P260 Do not breathe mist, vapours or spray P264 Wash hands and face thoroughly after handling P270 Do not eat, drink or smoke when using this product P273 Avoid release to the environment
Precautionary Statement – Response	P308+P313 IF exposed or concerned: Get medical advice/attention P309+P311 IF exposed or if you feel unwell: Call a POISON CENTRE or a doctor/physician (different wording used)
Precautionary Statement – Storage	P405 Store locked up.
Precautionary Statement – Disposal	P501 Dispose of contents/container to an approved landfill..

Section 3 - Composition and Information on Ingredients

Chemical Characterization	Solid
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Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Metaldehyde	108-62-3	18g/kg
	Ingredients determined to be non-hazardous	-	Balance

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Section 4 - First Aid Measures

First-aid Measures	For advice contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor immediately. Begin artificial respiration if the victim is not breathing. Use mouth-to-nose rather than mouth-to mouth. Obtain medical attention.
Inhalation	Remove patient to fresh air. Lay down and keep warm and rested. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation. Seek medical assistance immediately.
Ingestion	Never give anything by mouth to an unconscious person. If swallowed do NOT induce vomiting. For advice, contact the National Poisons Centre (0800 764 766). Seek medical assistance immediately.
Skin	Immediately flush body and clothes with large amounts of water. Remove contaminated clothing and footwear. Wash affected areas with soap and water. If a large area is affected seek medical assistance.
Eye	Flush eyes with plenty of water for 15 minutes holding eyelids open if necessary. Seek medical assistance. Remove contact lenses, if present and easy to do.
First-aid Facilities	Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.
Advice to Doctor	Treat symptomatically. Onset of symptoms may be delayed for several hours. Consider gastric lavage, after intubation, and administration of activated charcoal and a saline cathartic. Convulsions may be treated with intravenous (IV) diazepam.

Section 5 - Firefighting Measures

Suitable Extinguishing Media	Water fog, foam, carbon dioxide or dry chemical.
Hazards from Combustion Products	May emit hazardous smoke and fumes if involved in fires or exposed to extreme heat.
Special protective equipment for fire-fighters	Full protective clothing and self-contained breathing apparatus.
Specific Methods	Keep up wind. Do not allow washings to reach sewage or effluent systems.
Decomposition Temperature	Information is not available.
Other Information	Location Certificate: Not applicable Hazardous Atmosphere Zone: Not applicable Number of Fire Extinguishers: Not applicable

Section 6 - Accidental Release Measures

Spills and Disposal	Wear protective clothing. Clear area of unprotected personnel. Sweep up solids without generating dust (use water to dampen). If spill does enter waterways contact the local authority. Collect in an appropriate sealable container for disposal in an approved landfill.
Personal Protection	For appropriate personal protective equipment (PPE), refer Section 8.
Environmental Precautions	Prevent from entering drains, waterways or sewers.

Section 7 - Handling and Storage

Precautions for Safe Handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. It is the duty of the PCBU that a person who uses, handles, manufactures or stores a hazardous substance (including hazardous waste) is provided information, instruction and training in accordance with Regulation 4.5 of the Health and Safety at work (Hazardous Substances) Regulations 2017. Avoid skin and eye contact and inhalation of spray mist. CERTIFIED HANDLER: Is not required. TRACKING: Is not required.
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Conditions for safe storage, including any incompatibilities	<p>RECORD KEEPING: Is not required.</p> <p>Keep out of reach of children.</p> <p>Store in original container tightly closed and in a locked, dry, cool area away from foodstuffs, domestic animals and poultry. Storage must be in accordance with NZS 8409 Management of Agrichemicals.</p> <p>Stores containing 10,000kg of SLUGOUT are subject to signage, and more than 10,000kg require emergency response plans.</p>
Other Information	<p>Always read the label and any attached leaflet before use.</p> <p>Aggregate Storage Volume Thresholds:</p> <p>When stored with substances of the same hazard classification the aggregate quantity must be considered. For full details refer to the current NZS8409 Management of Agrichemicals and the HSNO Regulations.</p>

Section 8 - Exposure Controls and Personal Protection

Occupational Exposure Limits (OEL)	No exposure limits (WES, TEL or EEL's) have been specifically assigned for this product.
Appropriate Engineering Controls	Handle in well ventilated areas, generally natural ventilation is adequate.
Personal Protective Equipment	When opening the container or using the product wear safety goggles and impervious gloves.
Hygiene Measures	Do not eat, drink or smoke while using. Remove protective clothing and wash hands and face thoroughly before meals and after work. Wash protective clothing daily after work.

Section 9 - Physical and Chemical Properties

Form	Solid
Appearance	Green pellets
Odour	Acetaldehyde odour
Decomposition Temperature	Information is not available.
Melting Point	Metaldehyde active ingredient = 246°C (sealed tube)
Solubility in Water	Not soluble.
pH	Information is not available.
Vapour Pressure	6600 mPa (metaldehyde, 25°C)
Vapour Density (Air=1)	Information is not available.
Odour Threshold	Information is not available.
Partition Coefficient: n-octanol/water	Kow Log P is 0.12 (metaldehyde)
Flash Point	Metaldehyde active ingredient = 50-55°C (Abel-Pensky closed cup)
Flammability	Combustible
Auto-ignition Temperature	Information is not available.
Flammable Limits - Lower	Information is not available.
Flammable Limits - Upper	Information is not available.
Initial Boiling Point and Boiling Range	Metaldehyde active ingredient = Sublimes at 112-115°C (atmospheric pressure) with partial depolymerisation.
Kinematic Viscosity	Information is not available.
Particle Characteristics	Information is not available.

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Relative Density Metaldehyde active ingredient = S.g./density 1.27 (20°C)

Other Information (GB) Granular Bait

Section 10 - Stability and Reactivity

Chemical Stability Stable under normal conditions of handling and storage.

Hazardous Polymerization Hazardous polymerisation will not occur.

Section 11 - Toxicological Information

Toxicology Information No specific toxicological data is available for this product. Data below is for constituents.

Acute Toxicity - Oral LD50 (rat) 283 mg/kg for metaldehyde
LD50 (Guinea pig) 175mg/kg for metaldehyde

Acute Toxicity - Inhalation LC50 (rat) (4hr) >15 mg/l for metaldehyde

Acute Toxicity - Dermal LD50 (rat) >5,000 mg/kg for metaldehyde

Ingestion Symptoms of mild poisoning include nausea, salivation, vomiting, diarrhoea, abdominal pain and muscle spasms. More severe poisoning may also cause rapid heart beat, respiratory depression and eventual coma.

Inhalation May cause irritation to the respiratory tract if dusts are inhaled.

Skin May irritate the skin.

Eye Dusts may cause slight irritation to the eyes.

Skin Corrosion/Irritation Non irritant (rabbit)

Serious Eye Damage/Irritation Mild irritant (rabbit)

Skin Sensitisation Not a skin sensitiser (Guinea pig)

Germ Cell Mutagenicity Information is not available.

Carcinogenicity Information is not available.

Reproductive Toxicity Metaldehyde was not genotoxic when assessed in a number of in vitro and in vivo genotoxicity assays.

STOT - Single Exposure Information is not available.

STOT - Repeated Exposure May cause damage to liver from repeated oral exposure

Aspiration Hazard Information is not available.

Subchronic/Chronic Toxicity Target Organ Toxicant: Liver
A long term reproduction study was conducted in rats which were fed 0, 200, 1000 and 5000ppm metaldehyde in the diet. A dose-related development of paralysis was observed in females. Males showed an increase in liver weights. Metaldehyde affected reproduction only at maternally toxic doses. Metaldehyde was not carcinogenic, or teratogenic at any dose tested.

Chronic Effects Based on available data, repeated exposures are not anticipated to cause additional significant adverse effects.

Other Information ADI (Acceptable Daily Intake) for humans is 0.0005mg/kg bw/day.

Section 12 - Ecological Information

Persistence and Degradability Metaldehyde is not rapidly degradable.

Mobility Information is not available.

Environmental Fate Metaldehyde is aerobically and anaerobically degraded in soil to carbon

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dioxide and water.

Bioaccumulative Potential Risk of bioaccumulation in an aquatic species is low.

Other Precautions Keep domestic pets and poultry away from treated areas.

Basis for Assessment Ecotoxicological data have not been determined specifically for this product. Data below is for the active ingredient unless otherwise stated.

Acute Toxicity - Fish LC50 (96hr) for rainbow trout is 75 mg/L for metaldehyde

Acute Toxicity - Daphnia EC50 (48hr) is >90 mg/L for metaldehyde

Acute Toxicity - Algae EC50 (96h) for algae 73.5 mg/L for metaldehyde

Acute Toxicity - Other Organisms The following data is for the active ingredient:
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 Birds: Acute oral LD50 for quail is 170 mg/kg for metaldehyde. Dietary LC50 (8d) quail = 3,460ppm for metaldehyde.
 Bees: LD50 (oral) >87µg/bee, (contact) >113µg/bee for metaldehyde.
 Worms: LC50>1000ppm for metaldehyde.
 No effects on aphids for metaldehyde..

Section 13 - Disposal Considerations

Product Disposal Dispose of product only by using according to the label, or at an approved landfill.

Container Disposal Ensure container is completely empty. Burn in an appropriate incinerator if circumstances, such as wind direction, permit. Otherwise crush and bury in an appropriate landfill.

Section 14 - Transport Information

Transport Information It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs.

Storage and Transport Not classified as Dangerous Goods for transport in New Zealand.

Other Information Segregation: Check the latest Land Transport Rule Dangerous Goods Rule 45001 for additional information. Sea transport may require additional segregation. Refer NZS5433 sea segregation for details.

Section 15 - Regulatory Information

National and or International Regulatory Information Registered pursuant to the ACVM Act 1997, No. P4161
 See www.foodsafety.govt.nz for registration conditions
 Approved pursuant to the HSNO Act 1996, Approval Code HSR000142
 See www.epa.govt.nz for approval controls.

Packaging and Labelling READ SAFETY DIRECTIONS BEFORE OPENING OR USING
 KEEP OUT OF REACH OF CHILDREN
 KEEP LOCKED UP

Section 16 - Any Other Relevant Information

Date of preparation or last revision of SDS August 2022.

Contact Person/Point IN AN EMERGENCY, DIAL 111 - FIRE OR POLICE
 NORMAL HOURS: Emergency Response Co-ordinator: (649) 268 2920
 24Hr Tollfree Emergency No: 0800 651 911
 24Hr Emergency No: National Poisons Centre Phone: 0800 764 766

Revisions Highlighted Various changes and updates made to the document to comply with GHS7.
 ...End Of MSDS...



Material Safety Data Sheet

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