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| Infosafe No™ 3NUBW | Issue Date : August 2017 | ISSUED by NUFARMNZ |
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 Product Name **SLUGOUT®**

1. Identification

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| GHS Product Identifier | SLUGOUT® |
| Product Code | 04922 |
| Product Type | Molluscicide |
| Company Name | Nufarm NZ |
| Address | 6 Manu Street, Otahuhu Auckland 2024 New Zealand |
| Telephone/Fax Number | Tel: 0-9-270 4150 Fax: 0-9-270 4159 |
| Emergency phone number | 0800 651 911 |
| Email | info@nz.nufarm.com |
| Recommended use of the chemical and restrictions on use | All weather slug and snail bait. |

2. Hazard Identification

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| Other Information | 6.8B reproductive or developmental toxicant, 6.9B target organ toxicant, 9.1D aquatic toxicant, TOXICITY Harmful - may cause damage to the liver and may cause reproductive / development damage from repeated oral exposure at high doses. ECOTOXIC Harmful to aquatic organisms. |
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3. Composition/information on ingredients

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

4. First-aid measures

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| 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 contact | 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. |

5. Fire-fighting measures

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| Suitable extinguishing media | Water fog, foam, carbon dioxide or dry chemical. |
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| 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. |
| Other Information | Location Certificate: Not applicable Hazardous Atmosphere Zone: Not applicable Number of Fire Extinguishers: Not applicable |

6. Accidental release measures

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| Spills & 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. |

7. Handling and storage

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| Precautions for Safe Handling | Avoid skin contact. APPROVED HANDLER: Not applicable TRACKING: Is not required RECORD KEEPING: Not applicable |
| Conditions for safe storage, including any incompatibilities | Keep out of reach of children. 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. Stores containing 10,000kg of SLUGOUT are subject to signage, and more than 10,000kg require emergency response plans. |
| Other Information | Always read the label and any attached leaflet before use. Aggregate Storage Volume Thresholds: 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. |

8. Exposure controls/personal protection

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| Occupational exposure limit values | 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. |

9. Physical and chemical properties

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| Form | Solid |
| Appearance | Green pellets |
| Odour | Acetaldehyde odour |
| Solubility in Water | Not soluble. |
| Vapour Pressure | 6600 mPa (metaldehyde, 25°C) |
| Partition Coefficient: n-octanol/water | Kow Log P is 0.12 (metaldehyde) |
| Flammability | Combustible |
| Other Information | (GB) Granular Bait |

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10. Stability and reactivity

Chemical Stability Stable under normal conditions of handling and storage.

Hazardous Polymerization Hazardous polymerisation will not occur.

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

Acute Toxicity - Inhalation LC50 (rat) (4hr) >15 mg/l 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 Sensitisation Not a skin sensitiser (Guinea pig)

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

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

Serious eye damage/irritation Mild irritant (rabbit)

Skin corrosion/irritation Non irritant (rabbit)

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.

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

12. Ecological information

Persistence and degradability Metaldehyde is not rapidly degradable.

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

13. Disposal considerations

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



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Container Disposal landfill.
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.

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.

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.
Hazard Rating Systems NFPA/HMIS: 1-1-1

16. Other Information

Date of preparation or last revision of SDS August 2012
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 5 yearly review carried out. Various changes and updates made to document.
...End Of MSDS...

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