

1. Identification of Substance & Company

Product

Product name	SNAIL AND SLUG PELLETS
Product code	NA
HSNO approval	HSR000140
UN number	NA
Proper Shipping Name	NA
DG class	NA
Packaging group	NA
Hazchem code	NA
Uses	Slug and snail bait
Caution	Accidental poisoning of pets may be fatal. DO NOT HEAP PELLETS. Observe pet behaviour after pellets have been applied. The bittering agent in the pellets should ensure the animal spits them out shortly after tasting. However, occasionally an animal may continue eating the product. If this occurs, remove the animal at once from the area.

Company Details

Company	Amalgamated Hardware Merchants Ltd (AHM)	
Address	8 Hautu Drive, Wiri, Manukau, New Zealand	PO Box 97162 Manukau 2241 New Zealand
Telephone	+64 9 2511310	
Fax	+64 9 2511311	

Emergency Telephone Number: 0800 764 766

2. Hazard Identification

Approval

This product has been approved under the Hazardous Substances and New Organisms Act (HSNO, Approval HSR000140), and is classified as follows:

Classes	Hazard Statements
6.8B	H361 - Suspected of damaging fertility or the unborn child.
6.9B	H373 - May cause damage to organs through prolonged or repeated exposure.
9.1D	H402 - Harmful to aquatic life.

SYMBOLS

WARNING



Other Classifications

There are no other classifications that are known to apply.

Precautionary Statements

- P103 - Read label before use.
- P264 - Wash hands thoroughly after handling.
- P280 - Wear eye protection.
- P201 - Obtain special instructions before use.
- P202 - Do not handle until all safety precautions have been read and understood.
- P260 - Do not breathe dust.
- P270 - Do not eat, drink or smoke when using this product.
- P273 - Avoid release to the environment.
- P308+P313 - IF exposed or concerned: Get medical advice/ attention.
- P405 - Store locked up

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3. Composition / Information on Ingredients

Component	CAS/ Identification	Class for ingredient(s)	Concentration
Metaldehyde	108-62-3	4.1.1B, 6.1B (inhalation), 6.1C (oral), 6.1E (dermal), 6.4A, 8.6B, 6.9B, 9.1B, 9.3B	15g/kg
ingredients not contributing to HSNO classes	mixture	NA	balance

This is a commercial product whose exact ratio of components may vary. Trace quantities of impurities are also likely.

4. First Aid

General Information

If medical advice is needed, have product container or label at hand. You should call the National Poisons Centre if you feel that you may have been harmed or irritated by this product. The number is 0800 764 766 (0800 POISON) (24 hr emergency service).

Recommended first aid facilities Ready access to running water is recommended. Accessible eyewash is recommended.

Exposure

Swallowed

Eye contact

Rinse mouth, do NOT induce vomiting. Give a glass of water to drink. Contact a doctor.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation occurs: Get medical advice/attention.

Skin contact

Inhaled

Remove contaminated clothing, wash affected area with plenty of water.
 Generally, inhalation of dust is unlikely to result in adverse health effects. If coughing, dizziness or shortness of breath is experienced, remove the patient to fresh air immediately. If patient is unconscious, place in the recovery position (on the side) for transport and contact a doctor.

Advice to Doctor

Treat symptomatically

5. Firefighting Measures

Fire and explosion hazards:

There are no specific risks for fire/explosion for this chemical. It is not classed as flammable.

Suitable extinguishing substances:

Carbon dioxide, extinguishing powder or water jet. Fight larger fires with water jet or alcohol resistant foam.

Unsuitable extinguishing substances:

Unknown.

Products of combustion:

Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Water. May form toxic mixtures in air and may accumulate in sumps, pits and other low-lying spaces, forming potentially explosive mixtures.

Protective equipment:

Self-contained breathing apparatus. Safety boots, non-flammable overalls, gloves, hat and eye protection.

Hazchem code:

NA

6. Accidental Release Measures

Containment

If greater than 10000kg is stored, secondary containment and emergency plans to manage any potential spills must be in place. In all cases design storage to prevent discharge to stormwater.

Emergency procedures

In the event of a large spillage (e.g. >100kg) alert the fire brigade to location and give brief description of hazard.
 Stop the source of the leak, if safe to do so.
 Wear protective equipment to prevent skin, eye and respiratory exposure.
 Clear area of any unprotected personnel.
 Prevent by whatever means possible any spillage from entering drains, sewers, or water courses. (If this occurs contact your regional council immediately).

Clean-up method

Collect and seal in properly labelled containers or drums for disposal. If contamination of crops, sewers or waterways has occurred advise local emergency services.

Disposal

Sweep up and collect recoverable material into labelled containers for recycling or salvage. Recycle containers wherever possible. This material may be suitable for approved landfill. Dispose of only in accord with all regulations.

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Precautions Wear protective equipment to prevent skin and eye contamination and the inhalation of dusts. Avoid the creation of dust. Work up wind or increase ventilation.

7. Storage & Handling

Storage Store in the original container. Keep container closed and in a cool dry area. Keep out of direct sunlight. Store locked up out of the reach of children and animals. Do not store hazardous substances near food, feedstuffs, seeds and fertilisers.

Handling Keep exposure to a minimum, and minimise the quantities kept in work areas. See section 8 with regard to personal protective equipment requirements. Avoid skin and eye contact and inhalation of dusts.

8. Exposure Controls / Personal Protective Equipment

Workplace Exposure Standards

A workplace exposure standard (WES) has not been established by WorkSafe NZ for this product. There is a general limit of 10mg/m³ for dusts and mists when limits have not otherwise been established.

NZ Workplace Exposure Stds (2016)	Ingredient	WES-TWA*	WES-STEL*
	Metaldehyde	data unavailable	data unavailable
	Grain dust	4mg/m ³	data unavailable

* These workplace exposure standards are also Prescribed Exposure Standards (PES) under the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016.

Engineering Controls

In industrial situations, it is expected that employee exposure to hazardous substances will be controlled to a level as far below the WES as practicable by applying the hierarchy of control required by the Health and Safety at Work Act (2015) and the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016.

Personal Protective Equipment

Eyes Avoid contact with eyes. Use safety glasses direct contact with pellets is possible, e.g. working with bulk quantities.

Skin Protective gloves and clothing are not normally necessary. However, it is prudent to wear gloves when handling chemicals in bulk or for an extended period of time. Wash hands an exposed skin thoroughly after use.

Respiratory A respirator when airborne concentrations approach the WES (section 8). Use a respirator with a particulate filter. If using a respirator, ensure that the cartridges are correct for the potential air contamination and are in good working order.

WES Additional Information

Not applicable

9. Physical & Chemical Properties

Appearance	pale green pellets
Odour	wheaty odour
pH	no data
Vapour pressure	no data
Boiling point	no data
Volatile materials	no data
Freezing / melting point	no data
Solubility	insoluble in water
Partition coefficient	Log Pow (Metaldehyde): 0.12
Specific gravity / density	0.6 kg/L (bulk density)
Flash point	no data
Danger of explosion	not explosive
Auto-ignition temperature	no data
Corrosiveness	non-corrosive

10. Stability & Reactivity

Stability	Product is stable for at least 4 years under ambient storage conditions.
Conditions to be avoided	Containers should be kept closed in order to avoid contamination. Keep from extreme heat and open flames. Keep away from food stuffs. Avoid exposure to moisture.
Incompatible groups	Oxidising agents
Substance Specific Incompatibility	none known
Hazardous decomposition products	Oxides of carbon
Hazardous reactions	none known

11. Toxicological Information

Summary

IF SWALLOWED: can result in abdominal cramps, nausea, vomiting, salivation, facial flushing and fever. Larger exposures may result in drowsiness, irritability, lack of muscular co-ordination and tremor.

IF IN EYES: Exposure to dust may cause discomfort due to the particulate nature of the product. May cause physical irritation to the eyes.

IF ON SKIN: prolonged or repeated exposure may lead to irritation.

IF INHALED: may lead to respiratory irritation.

CHRONIC EFFECTS: Evidence indicates that repeated or prolonged exposure to this chemical could result in effects on the gastrointestinal system, liver and reproductive system.

Supporting Data

Acute	Oral	Using LD ₅₀ 's for ingredients, the calculated LD ₅₀ (oral, rat) for the mixture is >5,000 mg/kg. Data considered includes: Metaldehyde 175mg/kg (guinea pig).
	Dermal	Using LD ₅₀ 's for ingredients, the calculated LD ₅₀ (dermal, rat) for the mixture is >5000 mg/kg. Data considered includes: Metaldehyde 2275 mg/kg (rat).
	Inhaled	Using LC ₅₀ 's for ingredients, the calculated LC ₅₀ (inhalation, rat) for the mixture is >5mg/L (air). Data considered includes: Metaldehyde 0.203mg/L (rat, dust/mist).
	Eye	The mixture is not considered to be an eye irritant by EPA.
	Skin	The mixture is not considered to be a skin irritant.
Chronic	Sensitisation	No ingredient present at concentrations > 0.1% is considered a sensitizer.
	Mutagenicity	No ingredient present at concentrations > 0.1% is considered a mutagen.
	Carcinogenicity	No ingredient present at concentrations > 0.1% is considered a carcinogen.
	Reproductive / Developmental	The mixture is considered to be a suspected reproductive or developmental toxicant. Metaldehyde is classed by EPA as 6.8B.
	Systemic	The mixture is considered to be a suspected target organ toxicant. Metaldehyde is classed by EPA as 6.9B. May cause hepatotoxicity.
	Aggravation of existing conditions	None known.

12. Ecological Data

Summary

This mixture is considered harmful to aquatic organisms. Risk of bioaccumulation in an aquatic species is low.

Supporting Data

Aquatic	Using EC ₅₀ 's for ingredients, the calculated EC ₅₀ for the mixture is between 1 and 100 mg/L and none of the components are considered bioaccumulative or persistent in the aquatic environment. Data considered includes: Metaldehyde 75 mg/L (96h, rainbow trout), >90mg/L (48h, Daphnia magna).
Bioaccumulation	Not considered bioaccumulative
Degradability	No data
Soil	No evidence of soil toxicity.
Terrestrial vertebrate	See acute toxicity. May be harmful to terrestrial vertebrates. Data considered includes: Metaldehyde LD ₅₀ (avian): 181mg/kg (quail)
Terrestrial invertebrate	No evidence of toxicity towards terrestrial invertebrates.
Biocidal	no data
Environmental effect levels	No EELs are available for this mixture or ingredients

13. Disposal Considerations

Restrictions	There are no product-specific restrictions, however, local council and resource consent conditions may apply, including requirements of trade waste consents.
Disposal method	Disposal of this product must comply with the requirements of the Resource Management Act for which approval should be sought from the Regional Authority. The substance must be treated and therefore rendered non-hazardous before discharge to the environment.
Contaminated packaging	Rinse containers with water before disposal. Preferably re-cycle container, otherwise send to landfill or similar.

14. Transport Information

There are no specific restrictions for this product (not a dangerous good).

UN number:	NA	Proper shipping name:	NA
Class(es)	NA	Packing group:	NA
Precautions:	Ecotoxic.	Hazchem code:	NA

15. Regulatory Information

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO). Approval code: HSR000140).

Specific Workplace Controls (as per HSNO approval referenced to Controls Matrix)

Key workplace requirements are:

SDS	To be available within 10 minutes in workplaces storing > 1kg.
Labelling	No removal of labels and/or decanting of product into other containers can occur.
Emergency plan	Required if > 10000kg is stored.
Approved handler	Not required.
Tracking	Not required.
Bundling & secondary containment	Required if > 10000kg is stored.
Signage	Required if > 10000kg is stored.
Location test certificate	Not required.
Flammable zone	Not required.
Fire extinguisher	Not required.
Additional control	The substance must not be applied onto or into water.

Note: The above workplace requirements apply if only this particular substance is present. The complete set of controls for a location will depend on the classification and total quantities of other substances present in that location.

Other Legislation

In New Zealand, the use of this product may come under the Resource Management Act and Regulations, the Health and Safety at Work Act 2015 and the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016, local Council Rules and Regional Council Plans.

All aspects of storage, handling use, disposal and record keeping must be in accordance with NZS 8409:2004 "Management of Agrichemicals".

ACVM number: P007469

16. Other Information

Abbreviations

Approval Code	Approval HSR000140, Controls, EPA. www.epa.govt.nz
CAS Number	Unique Chemical Abstracts Service Registry Number
Ceiling	Ceiling Exposure Value: The maximum airborne concentration of a biological or chemical agent to which a worker may be exposed at any time.
EC₅₀	Ecotoxic Concentration 50% – concentration in water which is fatal to 50% of a test population (e.g. daphnia, fish species)
EPA	Environmental Protection Authority (New Zealand)
HAZCHEM Code	Emergency action code of numbers and letters that provide information to emergency services, especially fire fighters
HSNO	Hazardous Substances and New Organisms (Act and Regulations)
IARC	International Agency for Research on Cancer
LEL	Lower Explosive Limit
LD₅₀	Lethal Dose 50% – dose which is fatal to 50% of a test population (usually rats).
LC₅₀	Lethal Concentration 50% – concentration in air which is fatal to 50% of a test population (usually rats)
MSDS (SDS)	Material Safety Data Sheet (or Safety Data Sheet)
PES	Prescribed Exposure Standard means a WES or a biological exposure standard that is prescribed in a regulation, a safe work instrument or an approval under HSNO (including group standards).
STEL	Short Term Exposure Limit - The maximum airborne concentration of a chemical or biological agent to which a worker may be exposed in any 15 minute period, provided the TWA is not exceeded
TWA	Time Weighted Average – generally referred to WES averaged over typical work day (usually 8 hours)
UEL	Upper Explosive Limit
UN Number	United Nations Number
WES	Workplace Exposure Standard - The airborne concentration of a biological or chemical agent to which a worker may be exposed during work hours (usually 8 hours, 5 days a week). The WES relates to exposure that has been measured by personal monitoring using procedures that gather air samples in the worker's breathing zone.

References

Data	Unless otherwise stated comes from the EPA HSNO chemical classification information database (CCID).
EPA Transfer Gazettes WES 2016	Classifications and controls assigned for specific ingredients (consolidated gazette, 2004) The NZ Workplace Exposure Standards Effective from 2016, published by WorkSafe NZ and available on their web site – www.worksafe.govt.nz .
WES 2002	Workplace Exposure Standards published by the Occupational Safety and Health Service, Department of Labour, January 2002, ISBN 0-477-03660-0. These are the WES referred to under the Group Standard (HSNO approval) and may constitute a PES.
Other References:	Suppliers SDS

Review

Date	Reason for review
February 2017	Not applicable – new SDS

Disclaimer

This SDS was prepared by Datachem LTD and is based on our current state of knowledge, including information obtained from suppliers. The SDS is given in good faith and constitutes a guideline (not a guarantee of safety). The level of risk each substance poses is relevant to its properties (as summarised in the SDS) AND HOW THE SUBSTANCE IS USED. While guidelines are given for personal protective equipment, such precautions must be relevant to the use. The likely HSNO classifications for this SDS have been estimated based on general information from the supplier (e.g., hazard, toxicological). This SDS is copyright Datachem and must not be copied, edited or used for other than intended purpose. To contact the SDS author, email info@datachem.co.nz or phone: +64 9 940 30 80.

