

SAFETY DATA SHEET

According to HSNO Hazardous Substances (Safety Data Sheets) Notice 2017

Section 1. Identification of the material and the supplier

Product: **Mollumax**
 Product Use: Molluscicide - Bait used for the control of snails and slugs.
 Pack Size:
 Restriction of Use: Refer to Section 15

New Zealand Supplier: **Agrisource 2000 Ltd**
 Address: 45 Kitchener Road
 Pukekohe, Auckland

Telephone: +64 9 237 0422
Emergency No: 0800 764 766 (National Poison Centre)

Date of SDS Preparation: 11 September 2025

Section 2. Hazards Identification

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval No: HSR007794

Pictograms



Signal Word: **Warning**

GHS Classification and Category	Hazard Code	Hazard Statement
Acute inhalation toxicity Cat. 4	H332	Harmful if inhaled.
Reproductive toxicity Cat. 2	H361	Suspected of damaging fertility or the unborn child.
Specific target organ toxicity – repeated exposure Cat. 2	H373	May cause damage to organs through prolonged or repeated exposure.
Hazardous to the aquatic environment chronic Cat. 3	H412	Harmful to aquatic life with long lasting effects.
Hazardous to terrestrial vertebrates	H433	Hazardous to terrestrial vertebrates

Prevention Code	Prevention Statement
P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P281	Use personal protective equipment as required.

Response Code	Response Statement
P101	If medical advice is needed, have product container or label at hand.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P314	Get medical advice/attention if you feel unwell.
P304 + P340	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.

Storage Code	Storage Statement
P405	Store locked up.

Disposal Code	Disposal Statement
P501	Dispose of according to Local Regulations or Authorities. Dispose of packaging carefully. Shake container empty into application equipment. DO NOT dispose of unused product on site. Break, crush, puncture or shred and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose, clear of waterways desirable vegetation and tree roots. Empty containers and products should not be burnt.

Section 3. Composition / Information on Hazardous Ingredients

Ingredients	Wt%	CAS NUMBER.
Metaldehyde	5	108-62-3
Other ingredient not contributing to overall hazard		

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
If on Skin	Wash skin with plenty of water. If skin irritation occurs: Get medical advice/attention.
If Swallowed	Do not induce vomiting. Rinse mouth thoroughly with water. Never give anything to the mouth of an unconscious person. If vomiting occurs, place the victim face downwards, with the head turned to the side and lower than the hips to prevent vomit entering the lungs. Seek medical attention if needed.
If Inhaled	The mixture is a non-dusty pellet. Inhalation is not applicable as a route of exposure in normal condition of use.

Most important symptoms and effects, both acute and delayed

Symptoms:

Swallowed: Large amounts swallowed may cause nausea, vomiting, gastrointestinal discomfort and diarrhoea. May cause liver damage from repeated oral exposure.

Inhaled: Harmful if inhaled.

Eyes: Not applicable.

Skin: Not applicable

Chronic: Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure.

Clinical symptoms: Nervous and digestive disorder.

Notes to Doctor: No known antidote, apply a symptomatic treatment (pumping out of the stomach, administration of active charcoal and laxative).

Section 5. Fire Fighting Measures

Hazard Type	This product is non-flammable.
Hazards from decomposition products	May product toxic gases of Carbon monoxide (CO), Carbon dioxide (CO ₂) in a fire.
Suitable Extinguishing media	Use foam, dry chemical, carbon dioxide, or water spray when fighting fires involving this material. Foam or dry chemical fire extinguishing system is preferred to prevent excessive water run off.
Precautions for firefighters and special protective clothing	Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion.
HAZCHEM CODE	None Allocated

Section 6. Accidental Release Measures

For emergency responders:

Wear protective equipment as detailed in Section 8. Clear area of all unprotected personnel.

Environmental precautions:

Prevent from entering drains, waterways or sewers. If spill does enter waterways immediately contact local authority.

Methods and material for containment and cleaning up:

Small Spill: Wear protective clothing to prevent skin and eye contact. Collect and seal in properly labelled containers for disposal or re-use.

Large Spill: Wear protective clothing to prevent skin and eye contact. Cover with damp absorbent (inert material, sand or soil.) Sweep or vacuum up but avoid generating dust. Collect and seal in properly labelled containers, bags or drums for disposal or re-use. If contamination of crops or waterways has occurred advise emergency services or local authorities.

Dispose of packaging carefully. Shake bag empty into application equipment. DO NOT dispose of unused product on site. Puncture or shred and bury empty bags in a local authority landfill. If no landfill is available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose, clear of waterways desirable vegetation and tree roots. Empty containers and products should not be burnt. Observe government regulations. For any concern related to disposal consult section 13.

Section 7. Handling and Storage

Precautions for Handling:

- Read carefully and follow all instructions.
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Do not breathe dust.
- Use only outdoors or in a well-ventilated area.
- Avoid release to the environment.
- Use personal protective equipment as required.
- Wash hands after use.
- When opening the container, preparing product for use (loading) and if applying by hand, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and elbow-length rubber gloves and disposable dust mask. After each day's use, wash gloves and contaminated clothing.
- Do not use human flaggers/markers unless they are protected by engineering controls such as enclosed cabs.

Precautions for Storage:

- Store away from incompatible materials listed in Section 10.
- Store in the closed original container in a dry, cool, well-ventilated area, out of direct sunlight.
- Store in a locked room or place out of the reach of children, animals, food, feedstuff, seed and fertilisers.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA		STEL	
	ppm	mg/m ³	ppm	mg/m ³

None of the components have assigned exposure limits

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices FEB 2025 15TH EDITION.

Engineering Controls

Not normally required when used as directed. No exposure limits or biological limits have been established. Use in well-ventilated areas. Keep containers closed when not in use.

Personal Protection Equipment



Eyes	Wear eye protection.
Hands	Wear elbow-length rubber gloves
Skin	Wear cotton overalls buttoned to the neck and wrist (or equivalent clothing)
Respiratory	Avoid inhalation of dust. Where a risk assessment has identified an inhalation hazard, wear a suitable respirator or organic vapours and aldehydes.
General	Remove protective clothing and wash hands and face thoroughly before meals and after work. Do not eat, drink or smoke while using.

Section 9 Physical and Chemical Properties

Appearance	Pellets
Colour	Green
Odour	Odourless
Odour Threshold	Not available
pH	5.86
Boiling Point	Not available
Melting /Freezing Point	246°C (Active Substance)
Flash Point	Not available
Flammability	Not flammable
Upper and Lower Explosive Limits	Not available
Vapour Pressure	Not available
Vapour Density	Not available
Bulk Density	0.824g/cm ³
Solubility	Not available
Octanol/water partition coefficient:	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Kinematic Viscosity	Not available
Octanol/Water Particle Coefficient	Not available

Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions.
Possibility of hazardous reactions	The mixture is not known to undergo hazardous reactions under normal handling conditions.
Conditions to Avoid	Heat and moisture.
Incompatible Materials	None known
Hazardous Decomposition Products	May produce toxic gases of Carbon monoxide (CO), Carbon dioxide (CO ₂) in a fire.

Section 11 Toxicological Information**Acute Effects:**

Swallowed	Not applicable.
Dermal	Not applicable.
Inhalation	Harmful if inhaled.
Eye	Not applicable.
Skin	Not applicable.

Chronic Effects:

Carcinogenicity	Not applicable.
Reproductive Toxicity	Suspected of damaging fertility or the unborn child.
Germ Cell Mutagenicity	Not applicable.
Aspiration	Not applicable.
STOT/SE	Not applicable.
STOT/RE	May cause damage to organs through repeated or prolonged exposure.

Individual component information:**ACUTE TOXICITY**

LD50 oral: Rat : 175 mg/kg
LD50-dermal: Rat: 2275 mg/kg
LC50 inhalation: 0.203mg/L
Eye irritation: Rabbit: Not an eye irritant
Skin irritation: Rabbit: Not a skin irritant
Sensitization: Mouse: Not a sensitizer

CHRONIC TOXICITY: No data available for the mixture.
Information on Metaldehyde active substance:

NOEL (21 days) – Rabbit : 1000 mg/kg
NOEL (90 days) – Rat : 21 mg/kg
NOEL (104 weeks) – Rat: 2 mg/kg

CARCINOGEN DATA: No data available for the mixture.
Information on Metaldehyde active substance: Not carcinogenic.

MUTAGENIC DATA: No evidence of mutagenic activity.

REPRODUCTIVE TOXICITY: No data available for the mixture.

Information on Metaldehyde active substance:

Effect on fertility and development:

Metaldehyde, 99% pure, was administered in feed to 6 dogs/sex/group at doses of 0, 20, 60, or 90 mg/kg/day for 26 weeks. Possible ADVERSE EFFECT. NOEL = 20 mg/kg/day (testicular and prostate atrophy, spermatogenic arrest, and decreased erythroid parameters at 60 and 90 mg/kg/day; hepatotoxicity (hydropic swelling of hepatocytes and pericholangitis) in both sexes at 90 mg/kg/day.) Initially reviewed as unacceptable and not upgradeable as a chronic study (Davis, 12/1/86), the status was changed to unacceptable but upgradeable with information on histopathology, and diet preparation and analysis (Martz, 2/23/88).

Specific Target Organ Toxicity: No data available for the mixture.

Information on Metaldehyde active substance:

Oral Route

Primary Organ Effected: Hepatotoxicity (liver)

Secondary Organ(s) Effected: Neurotoxicity (nervous system)

Renal toxicity (Kidney)

Inhalation Route

Primary Organ Effected: Neurotoxicity (nervous system)

Section 12. Ecotoxicological Information

Harmful to aquatic life with long lasting effects.

Hazardous to terrestrial vertebrates.

Product:	
Persistence and degradability	Persistent; DT50 >30 days.
Bioaccumulation	Not expected to be bioaccumulative.
Mobility in Soil	No specific information for formulated product.
Other adverse effects	No data available

Ecotoxicity of individual components: Metaldehyde (CAS 108-62-3)

AQUATIC ACUTE TOXICITY

LC50 – Fish (96 h.): 75 mg/l (Oncorhynchus mykiss) ; > 100 mg/l (Cyprinus carpio).

EC50 – Algae (72 h.): >200 mg/l (Desmodesmus subspicatus)

EC50 – Daphnia (48 h.): > 90 mg/l (Daphnia magna)

TERRESTRIAL SPECIES

Acute toxicity NOEC – Earthworms (14 days): > 1000 mg/kg (Eisenia foetida).

INVERTEBRATES

Acute oral LD50: > 87.5 µg a.i./bee

Acute contact LD50: >113 µg a.i./bee

BIRD TOXICITY

Acute oral LD50: LD50– 170 mg/kg, bw – Japanese quail (Coturnix Coturnix)

LD50 – 196 mg/kg, bw – Mallard ducks (Anas platyrhynchos)

LD50 – 262 mg/kg, bw – Pheasants (Phasianus colchicus)

Do not allow to enter waterways.

Section 13. Disposal Considerations

Disposal Method:

Dispose of packaging carefully. Shake container empty into application equipment. DO NOT dispose of unused product on site. Break, crush, puncture or shred and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose, clear of waterways desirable vegetation and tree roots. Empty containers and products should not be burnt.



Precautions or methods to avoid: Avoid release to the environment.

Section 14 Transport Information

This product is NOT classified as a Dangerous Good for Transport in NZ; NZS 5433:2020

Section 15 Regulatory Information

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval No: HSR007794

HSW (HS) Regulations 2017	Trigger Quantity
Signage Trigger Quantities (Schedule 3)	1000kg
Emergency Response Plan (Schedule 5)	1000kg
Secondary Containment (Schedule 5)	1000kg
Tracking (Schedule 26)	Not required
Certified Handlers	Not required
Location Certificate	Not required
Restrictions of use (HSNO Additional Controls)	Refer to EPA website for full control details. www.epa.govt.co.nz
77A	This substance must be blue or green in colour.
77A	This substance shall not be sold in quantities less than 10 kg.
77A	This substance shall contain a repellent (bittering agent).
HPC Notice Part 4 Subpart B	The maximum application rate of this substance shall be 8 kg/ha (0.4 kg a.i./ha), except for when the substance is used on container plants whereby no maximum application rate is set.
ACVM Registration Number (See www.foodsafety.govt.nz for registration Conditions).	P10416

Section 16 Other Information

Glossary

EC ₅₀	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
HSW	Health and Safety at Work.

LC ₅₀	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD ₅₀	Lethal dose to kill 50% of test animals/organisms.
LEL	Lower explosive level.
OSHA	American Occupational Safety and Health Administration.
TEL	Tolerable Exposure Limit.
TLV	Threshold Limit Value-an exposure limit set by responsible authority.
UEL	Upper Explosive Level
WES	Workplace Exposure Limit

References:

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
2. Workplace Exposure Standards and Biological Exposure Indices FEB 2025 15th edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2020
5. HSW (Hazardous Substances) Regulations 2017

Disclaimer

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Please contact the Agrisource 2000 Ltd, if further information is required.

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