



SAFETY DATA SHEET

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

Section 1. Identification of the material and the supplier

Product: **Probait**
Product Use: Snail & Slug Bait
Restriction of Use: Refer to Section 15

New Zealand Supplier: **Adria Crop Protection Solutions**
Address: 407 State Highway 16
Kumeu 0841,
Auckland

Telephone: +64 9 412 9817
Fax: +64 9 412 9807
Website: www.adria.nz

Emergency No: **0800 734 607 (24hr)3**
0800 764 766 (National Poison Centre)

Date of SDS Preparation: 11 September 2018

Section 2. Hazards Identification

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2017

EPA Approval No: HSR000412

Pictograms



Chronic

Signal Word: **Warning**

| HSNO Classification | Hazard Code | Hazard Statement | GHS Category |
|---------------------|-------------|--|-----------------|
| 6.8B | H361 | Suspected of damaging fertility or the unborn child. | Repr. 2 |
| 6.9B | H373 | May cause damage to organs through prolonged or repeated exposure. | STOT RE 2 |
| 9.1D | H401 | Toxic to aquatic life. | Aquatic Acute 2 |

| Prevention Code | Prevention Statement |
|-----------------|---|
| P103 | Read label before use. |
| P201 | Obtain special instructions before use. |
| P202 | Do not handle until all safety precautions have been read and understood. |

Product Name: Probait
Date of SDS: 11 September 2018

Prepared by: Technical Compliance Consultants (NZ) Ltd
Tel: 64 9 475 5240 www.techcomp.co.nz

| | |
|------|--|
| P260 | Do not breathe fumes, vapours and spray. |
| P273 | Avoid release to the environment. |
| P281 | Use personal protective equipment as required. |

| | |
|----------------------|---|
| Response code | Response Statement |
| P314 | Get medical advice/attention if you feel unwell. |
| P308 + P313 | IF exposed or concerned: Get medical advice/ attention. |

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|---------------------|--------------------------|
| Storage Code | Storage Statement |
| P405 | Store locked up. |

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|----------------------|---------------------------|
| Disposal Code | Disposal Statement |
| P501 | Refer to Section 13. |

Section 3. Composition / Information on Hazardous Ingredients

| Ingredients | Content (%) | CAS NUMBER. |
|---------------|-------------|-------------|
| Metaldehyde | 15.0 | 108-62-3 |
| Not hazardous | To bal | |

Section 4. First Aid Measures

Routes of Exposure:

General: May be harmful if swallowed, inhaled or absorbed through the skin. Avoid skin contact. Symptomatic treatment is advised.

If in Eyes If product or spray enters eyes, wash out immediately and continue rinsing with clean water for at least 15 minutes. Obtain medical attention. If eye irritation persists: Get medical advice/attention.

If on Skin Immediately flush body and clothes with large amounts of water. Remove contaminated clothing and footwear. Wash affected areas with soap and water. If skin irritation or rash occurs: Get medical advice/ attention.

If Swallowed If swallowed do NOT induce vomiting. For advice, contact the National Poisons Centre on 0800 POISON (0800 764766) or a doctor immediately.

If Inhaled Remove person to fresh air. Remove contaminated clothing and loosen remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Apply artificial respiration if not breathing. Get medical advice if breathing becomes difficult.

Most important symptoms and effects, both acute and delayed

Symptoms:

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

Inhalation: Not applicable.

Skin: Not applicable.

Eye: Not applicable.

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

Treatment: 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. Fire Fighting Measures

| | |
|---|---|
| Hazard Type | This product is Non-Flammable. |
| Hazards from combustion products | Chloride compounds, Fluoride compounds and nitrogen oxides. |
| Suitable Extinguishing media | Dry chemical, water spray, foam, carbon dioxide. |
| Recommended protective clothing & Precautions for firefighters | Wear SCBA and chemical-protective clothing. |
| HAZCHEM CODE | 1Z |

Section 6. Accidental Release Measures**Personal precautions:**

Use protective clothing as per Section 8. Avoid contact with skin, eyes and clothing. Remove contaminated clothes and shoes immediately.

Environmental precautions:

Do not discharge into drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

Spill and Disposal procedures:

Sweep up and place in waste containers. Wash area with water and absorb with further inert material. Dispose of waste safely, according to Local Council regulations.

Section 7. Handling and Storage**Precautions for Handling:**

- Read label before use.
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Do not breathe fumes, vapours and spray.
- Avoid contact with skin and eyes.
- Ventilation required.
- Avoid release to the environment.
- Use personal protective equipment as required.

Precautions for Storage:

- Store away from incompatible materials listed in Section 10.
- Keep away from heat and protect from sunlight.
- Protect against freezing.
- 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 Probait are subject to signage, and more than 10,000kg require emergency response plans.

Section 8 Exposure Controls / Personal Protection**WORKPLACE EXPOSURE STANDARDS (provided for guidance only)**

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

No ingredients have 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 NOV 2017 9TH EDITION.

Engineering Controls / Industrial Hygiene

Ensure there is sufficient ventilation of the area.

Personal Protection Equipment



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|--------------------|---|
| Eyes | Wear safety goggles with side-shields. |
| Hands | Wear suitable gloves resistant to chemical penetration e.g. nitrile rubber gloves with a minimum thickness of 0.4 mm. |
| Skin | Body protection (chemical protection suit, boots) must be chosen depending on activity and possible exposure. |
| Respiratory | Wear respiratory protection if ventilation is inadequate. Particle filter with medium efficiency for solid and liquid particles. |
| General | Females of childbearing age should not come into contact with the product. Keep away from food, drink and animal feedstuffs. No eating, drinking or smoking during use. Wash hands and face before breaks and after work. Avoid contact with skin and eyes. Wear appropriate protective clothing such as long-sleeved shirt, long pants, waterproof gloves and safety goggles or face shield. Do not eat, drink or smoke when using. Wash hands and face before meals and after work. Keep unprotected persons and animals out of the area. |

Section 9 Physical and Chemical Properties

| | |
|---|---------------|
| Appearance | Solid, Bait |
| Colour | Green pellet |
| Odour | Not available |
| Odour Threshold | Not available |
| pH | 6.7 |
| Boiling/Melting Point | Not available |
| Freezing Point | Not available |
| Flash Point | Not available |
| Flammability | Not available |
| Upper and Lower Explosive Limits | Not available |
| Vapour Pressure | Not available |
| Vapour Density | Not available |
| Density | Not available |
| Water Solubility | Not available |
| Partition Coefficient: | Not available |
| Ignition Temperature | Not available |
| Decomposition Temperature | Not available |
| Viscosity | Not available |
| Particle Characteristics | Not available |
| Surface tension | Not available |

Section 10. Stability and Reactivity

| | |
|---|---|
| Stability of Substance | This product is stable under normal conditions. |
| Possibility of hazardous reactions | None known. |
| Conditions to Avoid | Heat and light. |
| Incompatible Materials | Strong bases, acids and oxidising agents. |
| Hazardous Decomposition Products | None known. |

Section 11 Toxicological Information**Acute Effects:**

| | |
|-------------------|-----------------|
| Swallowed | Not applicable. |
| Dermal | Not applicable. |
| Inhalation | Not applicable. |
| 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 prolonged or repeated exposure. |

Acute Toxicity -

| Chemical Name | LD50 (Oral) | LD50 (Dermal) | LC50 (inhalation) |
|---------------------------|--------------------------|----------------------|--------------------------|
| Metaldehyde (108-62-3) | 175mg/kg (Guinea Pig) | 2275mg/kg (Rat) | 0.203mg/l (Rat) |

Section 12. Ecotoxicological Information

| | |
|---------------------------------------|--|
| Ecological effects information | 9.1D = Toxic to aquatic life. |
| Persistence and degradability | No data available |
| Bioaccumulation | No data available |
| Mobility in Soil | No data available |
| Other adverse effects | No data available |
| Acute fish toxicity: | Metaldehyde: LC50 (96h) for rainbow trout = 75 |
| Toxicity for daphnia: | Metaldehyde: EC50 (48h) >90 mg/l. |
| Toxicity to algae: | Metaldehyde: EC50 (96h) = 73.50 mg/l. |
| Precautions: | Do not allow to enter waterways. |

Section 13. Disposal Considerations

Disposal Method:

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.



Empty container precautions:

Avoid contamination of any water supply with chemical or empty container.

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 5433:2012

Section 15 Regulatory Information

This substance is classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2017

EPA Approval Code: HSR000142

HSNO Classification: 6.8B, 6.9B, 9.1D

| HSW (HS) Regulations 2017 | Trigger Quantity |
|--|---|
| Certified Handlers | Not required |
| Location Certificate | Not required |
| Signage Trigger Quantities (Schedule 3) | 10,000kg (9.1D) |
| Emergency Response Plan (Schedule 5) | 10,000kg (9.1D) |
| Secondary Containment (Schedule 5) | 10,000kg (9.1D) |
| Tracking (Schedule 26) | Not required |
| For all further controls | Refer to EPA www.epa.govt.nz for controls document - HSR000142 |
| HSNO Additional Controls (Restrictions of use) | |
| 77A | The substance must not be applied onto or into water. |
| Hazardous Property Controls Notice 2017 | |
| HPC Notice Part 4 Clause 47 | Equipment for class 9 substances must be appropriate |
| HPC Notice Part 4 Clause 48 | Records of application of class 9 pesticides and plant growth regulators |
| HPC Notice Part 3 | Hazardous substances in a place other than a workplace. |
| HPC Notice Part 4 Subpart A | Site and storage controls for class 9 substances |
| ACVM Act and Regulations | |
| ACVM Approval No See www.foodsafety.govt.nz for registration controls | P9358 |

For proper and safe use of this product, please refer to the approval conditions laid down on the product label. The data contained in this safety data sheet is based on our current knowledge and describes the product only with regard to safety requirements. The data does not describe the products properties. Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any existing laws and legislation are observed.

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 Nov 2017 edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2012
5. HSW (Hazardous Substances) Regulations 2017

Disclaimer

This document has been prepared by TCC (NZ) Ltd and serves as the suppliers Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to TCC (NZ) Ltd or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer. While TCC (NZ) have taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, TCC (NZ) Ltd accept no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS

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Please contact Adria, if further information is required.

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