

SAFETY DATA SHEET

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

Section 1. Identification of the material and the supplier

Product: **Cricket Bait**
 Synonyms: Malathion, Maldison
 Product Use: Insecticide bait used for control of black field crickets in pasture.
 Restriction of Use: Refer to Section 15

New Zealand Supplier: **PGG Wrightson Seeds Ltd**
 Address: 1375 Springs Road, RD4 Lincoln 7674
 PO Box 69132, Lincoln, 7640

Telephone: +64 3 966 9300
Emergency No: 0800 764 766 (National Poison Centre)

Date of SDS Preparation: 18 October 2024

Section 2. Hazards Identification

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

EPA Approval No: HSR100407

Pictograms



Signal Word: **Warning**

GHS Classification and Category	Hazard Code	Hazard Statement
Skin sensitisation Cat. 1	H317	May cause an allergic skin reaction.
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 acute Cat. 1	H400	Very toxic to aquatic life.
Hazardous to the aquatic environment Chronic 1	H410	Very toxic to aquatic life with long lasting effects.
Hazardous to terrestrial invertebrates	H442	Hazardous to terrestrial invertebrates

Prevention Code	Prevention Statement
P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.
P201	Obtain special instructions before use.

Product Name: Cricket Bait
 Date of SDS: 30 October 2023

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

P202	Do not handle until all safety precautions have been read and understood.
P261	Avoid breathing dust.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective clothing.
P281	Use personal protective equipment as required.

Response Code	Response Statement
P101	If medical advice is needed, have product container or label at hand.
P314	Get medical advice/attention if you feel unwell.
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P333 + P313	If skin irritation or rash occurs: 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

Section 3. Composition / Information on Hazardous Ingredients

Ingredients	Wt%	CAS NUMBER.
Malathion	1-2	121-75-5
Inert Ingredients	To Balance	-

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes	Rinse cautiously with water for 15 minutes. If eye irritation persists: Get medical advice.
If on Skin	Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: get medical advice/attention.
If Swallowed	Do not induce vomiting. Wash out mouth thoroughly with water. Never give anything to the mouth of an unconscious person. If vomiting occurs, place 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	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:	Not applicable
Inhalation:	Not applicable
Skin:	May cause an allergic skin reaction.
Eye:	Not applicable.
Chronic:	Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure.

Section 5. Fire Fighting Measures

Hazard Type	Non Flammable
Hazards from Decomposition products	Thermal degradation may produce toxic vapors and gases which may include dimethyl sulfide, carbon oxides, phosphorous oxides, sulfur oxides.
Suitable Extinguishing media	Water spray, foam, and dry chemical.
Precautions for firefighters and special protective clothing	Wear self-contained breathing apparatus. If area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase the area contaminated/
HAZCHEM CODE	2Z

Section 6. Accidental Release Measures

Wear protective gear as detailed in Section 8. Evacuate all unnecessary personnel.

Prevent product from entering the sewers, waterways, or low areas.

Shovel or sweep up. DO NOT flush with water. Place material in a clean, dry container and cover for disposal. Wash contaminated areas with water and detergent. Prevent liquid from entering sewers, waterways or low areas. Soak up with sawdust, sand or other absorbent material. Shovel or sweep up. Never return to container for reuse.

Dispose of waste according to the applicable local and national regulations.

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.
- Contaminated work clothing should not be allowed out of the workplace.
- Avoid release to the environment.
- Wear protective clothing.
- Use personal protective equipment as required.

Precautions for Storage:

- Store away from incompatible materials listed in Section 10.
- Store locked up.
- Keep out of reach of children.
- Store in the closed, original container in a dry, well ventilated area, as cool as possible out of direct sunlight.
- Keep from contact with fertilisers, fungicides and seeds.
- Do not store with Classes 1,2,3.2,4 or 5 substances.
- Stores containing more than 100kg of this product, either alone or in aggregate with other hazardous substances are subject to requirement of an emergency management response plan, secondary containment and signage.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA		STEL	
	ppm	mg/m ³	ppm	mg/m ³
Malathion (skin) [121-75-5]	-	10	-	-

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 APRIL 2022 13TH EDITION.

Engineering Controls

Use only with adequate ventilation. Keep container tightly closed.

Personal Protection Equipment



Eyes	Not normally required. Safety glasses recommended for bulk use
Hands and skin	Wear rubber gloves, boots and overalls during mixing and application.
Respiratory	Not required. Avoid breathing dust.

Section 9 Physical and Chemical Properties

Appearance	Solid bait
Colour	Green
Odour	Not available
Odour Threshold	Not available
pH	Not available
Boiling Point	Not available
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
Specific Gravity	Not available
Water Solubility	Not available
Partition Coefficient:	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Kinematic Viscosity	Not available
Particle Characteristics	Not available

Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions.
Conditions to Avoid	Not available.
Incompatible Materials	No incompatibilities reasonably foreseeable.
Hazardous Decomposition Products	Decomposition will not occur.

Section 11 Toxicological Information

Acute Effects:

Swallowed	Not applicable.
Dermal	Not applicable.
Inhalation	Not applicable.
Eye	Not applicable.
Skin	May cause an allergic skin reaction.

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)
Product			
Malathion	734mg/kg (Rat)	>2330 mg/kg (Mouse)	>5mg/L (4hr)

Section 12. Ecotoxicological Information

Very toxic to aquatic life.
Hazardous to terrestrial invertebrates.

Persistence and degradability	Malathion - under normal conditions is degraded rapidly.
Bioaccumulation	No data available
Mobility in Soil	Malathion is of medium mobility in soil
Other adverse effects	No data available

Malathion	Fish LC50 rainbow trout (96hr)	0.18mg/L
	Daphnia EC50 (48hr)	0.72pmg/L.
	Algae EC50 (72hr)	4.06 mg/L.

Avoid contamination of any water supply with chemical or empty container.
Birds LD50 bobwhite quail 359 mg/kg, mallard duck LD50 1,485mg/kg.
Bee LD50 0.38n/bee.

Section 13. Disposal Considerations

Disposal Method:

Spent media that has removed toxic chemicals should be examined for specific hazards. Spilled product may be recovered for use if it has not come into contact with liquids or been exposed to significant amounts of gaseous contaminants. Dispose of according to Local Regulations.

Ensure any container holding waste product or contaminated spill media is labelled "Hazardous Waste – Ecotoxic" and that the label also has the Exotoxic Pictogram, waste type identifier, and the business name, address, and phone number.

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

Section 14 Transport Information

This product is classified as a Dangerous Good for transport in NZ ; SNZ HB 5433:2021



Road, Rail, Sea and Air Transport

UN No	3077
Class - Primary	9
Packing Group	III
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S (Malathion)
Marine Pollutant	Yes
Special Provisions	If the product's individual container is below 5kg, it can be transported as a non-DG as long as the product packaging is still labelled as per DG requirements and the driver is given safety information in accordance with Chapter 3.4 of the UNRTDG.

Section 15 Regulatory Information

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

EPA Approval Code: HSR100407

HSW (HS) Regulations 2017	Trigger Quantity
Signage Trigger Quantities (Schedule 3)	100Kg
Emergency Response Plan (Schedule 5)	100Kg
Secondary Containment (Schedule 5)	100Kg
Tracking (Schedule 26)	Not required
HSNO Additional Controls (Restrictions of use)	
Regs 46 – 48 Restrictions on use of substances in application areas	No application rate is set for Malathion-treated wheat at this time.
Reg 49	Controls relating to protection of terrestrial invertebrates e.g. beneficial insects
Reg 5(2) 6	Requirements for keeping records of use
Reg 77A	1.) The substance must not be applied onto or into water. 2.) Malathion-treated wheat shall be dyed blue or green.

	3.) Malathion-treated seed shall not be used for human or animal consumption. The substance label shall include a statement to this effect. 4.) Excess Malathion-treated seed shall not be left in areas accessible to birds. The substance label shall include a statement to this effect. 5.) A withholding period applies to Malathion-treated wheat such that stock must not graze pasture within 7 days of applying. The substance label shall include a statement to this effect.
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 4 Subpart A	Site and storage controls for class 9 substances
HPC Notice Part 4 Subpart B	Use of ecotoxic substances in any place
HPC Notice Part 4 Subpart C	Qualifications required for application of class 9 pesticides. In addition to clause 64 of the Hazardous Property Controls Notice, a person who applies this substance by a ground-based application method that is not listed in Table 2 of Schedule 10 must have one of the qualifications listed in column 1 of the last row of Table 2.
ACVM Act and Regulations	
ACVM Approval No	P008329
Tolerable Exposure Level (TEL)	No TEL set
Environmental Exposure Level (EEL)	No EELs are set for Malathion-treated wheat at this time and the default EEL values are deleted

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 April 2022 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 New Zealand distributor, if further information is required.

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