

2018-1038

2018-05-22

GROUP	1B	INSECTICIDE
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UBG

MALATHION GRAIN PROTECTOR DUST

COMMERCIAL INSECTICIDE

READ THE LABEL BEFORE USING

FOR USE ON STORED GRAINS

Protects against damage from Confused Flour Beetle, Granary Weevil, Saw-toothed Grain Beetle, Flat Grain Beetle, Rusty Grain Beetle, Lesser Grain Borer and Indian Meal Moth.

REGISTRATION NO. 15896

PEST CONTROL PRODUCTS ACT

GUARANTEE: Malathion 2%

Expiry Date: yyyy-mm-dd

Lot # XXXX-XXX

This product is not to be sold or applied after the expiry date above.

WARNING, contains the allergen wheat.

IN CASE OF EMERGENCY DUE TO A MAJOR SPILL, FIRE OR POISONING INVOLVING THIS PRODUCT CALL DAY OR NIGHT, 1-800-561-8273

LOVELAND PRODUCTS CANADA, INC.

789 DONNYBROOK DRIVE

DORCHESTER, ON

N0L 1G5

CANADA

1-800-328-4678

NET CONTENTS: 10-22.7 kg

2018-1038

2018-05-22

GENERAL INFORMATION

FOR USE ON STORED GRAINS: Wheat, oats, rice, rye and barley.

PROTECTS AGAINST DAMAGE from Confused Flour Beetle, Granary Weevil, Saw-toothed Grain Beetle, Flat Grain Beetle, Rusty Grain Beetle, Lesser Grain Borer and Indian Meal Moth.

DIRECTIONS FOR USE: Apply MALATHION GRAIN PROTECTOR DUST to the grain at the appropriate rate as the grain is being loaded or turned into the final storage.

	grams / 1000 kg (tonne)
Wheat	415
Rye	450
Barley	520
Oats	735
Rice	550

Limit the amount of active ingredient handled per day to 100 kg per person (approx.. 6650 metric tons at a rate of 15 g ai/tonne).

The most convenient way to apply MALATHION GRAIN PROTECTOR DUST is to treat the grain when it is in the truck or wagon prior to binning. Determine the volume of grain in the truck or wagon in metric tonnes (1000 kg). Measure out the correct amount of MALATHION GRAIN PROTECTOR DUST as per the table listed above. Spread the DUST evenly over the surface of the grain. Cut the DUST into the grain with a shovel. The DUST will become mixed with the grain as it is dumped from the truck into the auger hopper. Further mixing will occur when the grain is augered into the bin. Mixing is completed as the MALATHION GRAIN PROTECTOR DUST and grain roll down the cone-shaped pile in the bin.

To protect stored grains from attack apply MALATHION GRAIN PROTECTOR DUST to the surface of clean or infested grain at the rate of 4.75 kg/100 m² of grain surface area. Apply the DUST evenly over the surface of the grain. Apply immediately after grain is loaded into storage, and repeat if necessary. Work into a depth of 15 cm with a rake.

As this product is not registered for the control of pests in aquatic systems, **DO NOT** use to control aquatic pests. **DO NOT** contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

RESISTANCE MANAGEMENT RECOMMENDATIONS

2018-1038

2018-05-22

For resistance management, please note that MALATHION GRAIN PROTECTOR DUST contains Group 1B insecticide. Any insect population may contain individuals naturally resistant to MALATHION GRAIN PROTECTOR DUST and other Group 1B insecticides. The resistant individuals may dominate the insect population if this group of insecticides are used repeatedly. Other resistance mechanisms that are not linked to site of action but are specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

To delay insecticide resistance:

- Where possible, rotate the use of MALATHION GRAIN PROTECTOR DUST or other Group 1B insecticides with different groups that control the same pests.
- Use insecticides from a different group when such use is permitted.
- Insecticide use should be based on an IPM program that includes scouting, record keeping and considers cultural, biological and other chemical control practices.
- Monitor treated pest populations for resistance development.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for the specific site and pest problems in your area.
- For further information and to report suspected resistance, contact the Technical Service, LOVELAND PRODUCTS CANADA INC., 1-800-328-4678 or at www.lovelandproducts.ca.

PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN

Avoid prolonged breathing of DUST. Avoid contact with the skin, eyes and clothing. Wash thoroughly after using. This product is highly toxic to fish and bees exposed to direct treatment of residues on crops. Protective information may be obtained from your agricultural extension service. Do not contaminate any body of water. Containers should be tightly sealed when not in use. Do not store near feed, food, fertilizers, seed and like commodities. Do not apply to grain within 7 days of selling.

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada's website at: www.croplife.ca/.

PERSONAL PROTECTIVE EQUIPMENT

Wear long pants, long sleeved shirts, and chemical-resistant gloves during mixing/loading, application, clean-up and repair.

ENVIRONMENTAL HAZARDS:

TOXIC to aquatic organisms.

TOXIC to birds.

2018-1038

2018-05-22

IMPORTANT: Use of this product, as directed will be within the tolerance of 8 parts per million for Malathion. Treated grain is not subject to downgrading and can be milled into flour or feed using normal production methods.

FIRST AID

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice.

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

IF SWALLOWED: Call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferable by mouth-to-mouth, if possible. Call a poison control centre or doctor for treatment advice.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

TOXICOLOGICAL INFORMATION

Malathion is an organophosphate that is a cholinesterase inhibitor. Typical symptoms of overexposure to cholinesterase inhibitors include headache, nausea, dizziness, sweating, salivation, runny nose and eyes. This may progress to muscle twitching, weakness, tremor, incoordination, vomiting, abdominal cramps and diarrhea in more serious poisonings. A life-threatening poisoning is signified by loss of consciousness, incontinence, convulsions and respiratory depression with a secondary cardiovascular component. Treat symptomatically. If exposed, plasma and red blood cell cholinesterase tests may indicate degree of exposure (baseline data are useful). Atropine, only by injection, is the preferable antidote. Oximes, such as pralidoxime chloride, may be therapeutic if used early; however, use only in conjunction with atropine. In cases of severe acute poisoning, use antidotes immediately after establishing an open airway and respiration. With oral exposure, the decision of whether to induce vomiting or not should be made by an attending physician.

STORAGE

Do not contaminate water, food, or feed by storage or disposal.

Keep in original container during storage. Isomalathion, a toxic metabolite of malathion, forms when malathion product is stored at elevated temperatures or for extended periods of time. Malathion product must be stored in a cool (< 23°C) dry, well ventilated place away from seed, fertilizer or other pesticides. Do not use after the expiry date on the primary panel.

2018-1038

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DISPOSAL

1. Empty contents of the container thoroughly.
2. Follow provincial instructions for any required additional cleaning of the container prior to its disposal.
3. Make the empty container unsuitable for further use.
4. Dispose of the container in accordance with provincial requirements.
5. For information on the disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

NOTICE TO USER: This control product is to be used only in accordance with the directions on this label. It is an offence under the PEST CONTROL PRODUCTS ACT to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.

FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT, CALL CHEMTREC - DAY OR NIGHT 1-800-424-9300

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 PRODUCT IDENTIFIER:

TRADE NAME: MALATHION GRAIN PROTECTOR DUST

1.2 RECOMMENDED USE: GROUP 1B INSECTICIDE

1.3 MANUFACTURED FOR AND DISTRIBUTED BY:

LOVELAND PRODUCTS CANADA, INC.
789 DONNYBROOK DRIVE • DORCHESTER, ONTARIO N0L 1G5

1.4 24 Hour Emergency Phone: (Chemtrec): 1-800-424-9300 (Toll Free) - Additional Emergency Phone 1-800-561-8273

Loveland Technical Service: 1-800-328-4678

U.S. Coast Guard National Response Center: 1-800-424-8802

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Acute Toxicity – Oral	Category 4	H302
Acute Toxicity – Inhalation (Dusts/Mists)	Category 3	H331
Skin Sensitization	Category 1	H317
Carcinogenicity	Category 1B	H350

2.2 Label elements



Signal word: DANGER
 Hazard Statement: H302 – Harmful if swallowed.
 H317 – May cause an allergic skin reaction.
 H331 – Toxic if inhaled.
 H350 – May cause cancer.

Precautionary Statement: (Prevention): P201 – Obtain special instructions before use.
 P202 – Do not handle until all safety precautions have been read and understood.
 P281 – Use personal protective equipment as required.
 P264 – Wash face, hands, and any exposed skin thoroughly after handling.
 P270 – Do not eat, drink or smoke when using this product.
 P261 – Avoid breathing dust/fume/gas/mist/vapours/spray.
 P271 – Use only outdoors or in a well-ventilated area.
 P272 – Contaminated work clothing should not be allowed out of the workplace.
 P280 – Wear protective gloves.

Precautionary Statement: (Response): P301+P312 – IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell.
 P302+P352 – IF ON SKIN: Wash with plenty of soap and water.
 P304+P340: IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.
 P311 – Call a POISON CENTRE or doctor/physician.
 P330 – Rinse mouth.
 P333+P313 – If skin irritation or rash occurs: Get medical advice/attention.
 P363 – Wash contaminated clothing before reuse.

Precautionary Statement: (Storage): P405 – Store locked up.
 P403+P233 – Store in a well-ventilated place. Keep container tightly closed.



SAFETY DATA SHEET MALATHION GRAIN PROTECTOR DUST PCP 15896

SDS NUMBER: 15896-19-LPI

SDS REVISIONS: FORMAT

DATE OF ISSUE: 05/17/19

SUPERSEDES: 09/12/15

Precautionary
Statement:
(Disposal)

P501 – Dispose of contents/container to an approved waste disposal to an approved waste disposal facility.

2.3 Other hazards
None known.

3. COMPOSITION, INFORMATION ON INGREDIENTS

3.1 Substances

3.2 Mixtures

Chemical Name:	CAS No.	Concentration [%]
Malathion	121-75-5	2.00
Amorphous silicon dioxide	7631-86-9	4.10

4. FIRST AID MEASURES

4.1 Description of First Aid Measures

General Advice: Get medical attention if symptoms occur.

If in Eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

If on Skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice.

If Inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for treatment advice.

If Swallowed: Call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

4.2 Most Important Symptoms and Effects, Acute and Delayed

Symptoms: No information available.

4.3 Immediate Medical Attention and Special Treatment

Treatment: This product is an organophosphate that is a cholinesterase inhibitor.

FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-800-561-8273

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

NOTES TO PHYSICIAN: Typical symptoms of overexposure to cholinesterase inhibitors include headache, nausea, dizziness, sweating, salivation, runny nose and eyes. This may progress to muscle twitching, weakness, tremor, incoordination, vomiting, abdominal cramps and diarrhea in more serious poisonings. A life-threatening poisoning is signified by loss of consciousness, incontinence, convulsions and respiratory depression with a secondary cardiovascular component. Treat symptomatically. If exposed, plasma and red blood cell cholinesterase tests may indicate degree of exposure (baseline data are useful). Atropine, only by injection, is the preferable antidote. Oximes, such as pralidoxime chloride, may be therapeutic if used early; however, use only in conjunction with atropine. In cases of severe acute poisoning, use antidotes immediately after establishing an open airway and respiration. With oral exposure, the decision of whether to induce vomiting or not should be made by an attending physician.



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5. FIRE FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA:

Suitable Extinguishing Media: Use medium appropriate to surrounding fire. Foam, carbon dioxide (CO₂), dry chemical, soft stream or water fog.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:

Specific Hazards During Firefighting: During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating.

5.3 SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS

Special Protective Equipment for Firefighters: Self-contained breathing apparatus and full protective gear should be worn in fighting large fires involving chemicals. Use water spray to keep fire exposed containers cool. Keep people away. Isolate fire and deny unnecessary entry.

6. ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Personal Precautions: Isolate area. Keep unnecessary and unprotected personnel from entering the area. Keep personnel out of low areas. Keep upwind of spill. Ventilate area of leak or spill. No smoking in area. Eliminate all sources of ignition in vicinity of spill or released vapour to avoid fire or explosion. Dust explosion hazard. Keep out of sewers. Refer to section 7, Handling, for additional precautionary measures. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

6.2 ENVIRONMENTAL PRECAUTIONS

Environmental Precautions: This pesticide is toxic to aquatic organisms and birds. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean highwater mark except as noted on appropriate labels. Drift and runoff from treated areas may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when disposing of equipment wash waters or rinsate.

6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN-UP

Methods for Clean-Up: Use personal protective equipment as required. Cover powder spill with plastic sheet or suitable other protection to minimize spreading and keep powder dry. Take up mechanically, placing in appropriate containers for disposal. Avoid creating dust. Clean contaminated surface thoroughly. Never return spills to original containers for re-use.

7. HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING:

Advice on Safe Handling: Avoid contact with skin, eyes, or clothing. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Use personal protective equipment as required. Do not breathe dust/fume/mist/vapours/spray.

7.2 CONDITIONS FOR SAFE STORAGE:

Requirements for Storage Areas and Containers: Keep container tightly closed in a dry and well-ventilated place. Keep out of reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**8.1 CONTROL PARAMETERS:
OCCUPATIONAL EXPOSURE LIMITS**

Components	Type	Value
Malathion	TLV	1 mg/m ³ (Skin) Measured as inhalable fraction and vapour

Biological limit values

ACGIH Biological Exposure Indices Determinant	Value	Specimen
Acetylcholinesterase inhibiting pesticides	70% of individual's baseline 60% of individual's baseline	Cholinesterase activity in red blood cells Butyrylcholinesterase activity in serum or plasma



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8.2 EXPOSURE CONTROLS:

Engineering Measures

Individual Protection Measures:

Eye / Face Protection: Goggles or shielded safety glasses are recommended.
Skin Protection: Long-sleeved shirt and long pants. Shoes plus socks. Chemical-resistant gloves, except for pilots. Chemical-resistant apron for mixing or loading, cleaning up spills or equipment, or otherwise exposed to the concentrate.
Respiratory Protection: In case of inadequate ventilation or risk of inhalation of vapours, use suitable respiratory equipment. Wear respiratory protection during operations where spraying or misting occurs. Wear NIOSH-certified air-purifying respiratory protection with an N, P or R95 or HE class filter and organic vapour cartridge if necessary. Wear air supplied respiratory protection if exposure concentrations are unknown or if air-purifying respirators may not provide adequate protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 APPEARANCE: Solid
ODOUR: Slight mercaptan.
ODOUR THRESHOLD: No data available.
COLOUR: Off-white to light tan.
pH: No data available
MELTING POINT / FREEZING POINT: No data available
BOILING POINT: No data available
FLASH POINT: No data available
FLAMMABILITY (solid, gas): No data available.
UPPER / LOWER FLAMMABILITY OR EXPLOSIVE LIMITS: No data available
VAPOUR PRESSURE: No data available.
SOLUBILITY: Insoluble.
PARTITION CO-EFFICIENT, n-OCTANOL / WATER: No data available.
AUTO-IGNITION TEMPERATURE: No data available.
DECOMPOSITION TEMPERATURE: No data available.
VISCOSITY [Dynamic]: No data available.
SPECIFIC GRAVITY (Water = 1): 0.48 – 0.64 g/ml
DENSITY: 480 - 640 kg/m³

Note: These physical data are typical values based on material tested but may vary from sample to sample.
Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

10. STABILITY AND REACTIVITY

10.1 REACTIVITY

Stable

10.2 CHEMICAL STABILITY

Unstable at elevated temperatures.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS

Will not polymerize.

10.4 CONDITIONS TO AVOID

Extremes of temperature and direct sunlight.

10.5 INCOMPATIBLE MATERIALS

Avoid contact with strong bases, strong oxidizing agents and strong acids.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

None known.

11 TOXICOLOGICAL INFORMATION

11.3 LIKELY ROUTES OF EXPOSURE

Ingestion. Eye contact. Inhalation.

LC₅₀ (rat): Malathion: 43790 µ/m³ (4 HR).

LD₅₀ Oral (rat): Malathion: 1390 mg/kg

LD₅₀ Dermal (rabbit): Malathion: 4100 mg/kg

Acute Toxicity Estimates: No data available

Skin Irritation (rabbit): No data available.

Eye Irritation (rabbit): No data available.

Specific Target Organ Toxicity: Blood, Central Nervous System, Central vascular system, Eye damage/irritation, Liver, Respiratory system, skin, Gastrointestinal tract (GI).

Aspiration: No data available.

Skin Sensitization (guinea pig): Skin sensitizer – Category 1



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Carcinogenicity: ACGIH TLV-A4 (Not Classifiable as a Human Carcinogen) | IARC 3 (Unclassifiable as to carcinogenicity in humans).
Germ Cell Mutagenicity: Minimal genetic toxicity potential.
Interactive Effects: None known.

12 ECOLOGICAL INFORMATION

12.3 ECOTOXICITY

The product is toxic to aquatic organisms and birds.

Ecotoxicological Data

	Species	Test Results
Malathion	Fathead minnow	12.3 – 16.1 mg/L – 96-hour LC ₅₀
	Oncorhynchus mykiss	0.18 mg/L – 96-hour LC ₅₀
	Daphnia magna	0.014 mg/L – 48-hour EC ₅₀
	Bees	0.38 µg/bee – LD ₅₀ acute oral
	Bees	0.27 µg/bee – LD ₅₀ topical

Drift or runoff may adversely affect non-target plants.
Do not apply directly to water.
Do not contaminate water when disposing of equipment wash water.
Do not apply when weather conditions favor drift from target area.

12.2 PERSISTENCE AND DEGRADABILITY

Biodegradability: No data available.

12.3 BIOACCUMULATIVE POTENTIAL

Bioaccumulation: No data available.

12.4 MOBILITY IN SOIL

No data available.

12.5 OTHER ADVERSE EFFECTS

Assessment: No data available.

13 DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS

Empty contents of the container thoroughly. Follow provincial instructions for any required additional cleaning of the container prior to its disposal. Make the empty container unsuitable for further use. Dispose of the container in accordance with provincial requirements. For information on the disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

14 TRANSPORT INFORMATION

14.3 LAND TRANSPORT

TDG Shipping Description: Not Regulated

15 REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS

NFPA & HMIS Hazard Ratings:

NFPA		HMIS	
2	Health	0	Least
1	Flammability	1	Slight
0	Instability	2	Moderate
		3	High
		4	Severe
		2	Health
		1	Flammability
		0	Reactivity
		E	PPE

SARA Hazard Notification/Reporting

SARA Title III Hazard Category:	Immediate	<u>Y</u>	Fire	<u>Y</u>	Sudden Release of Pressure	<u>N</u>
	Delayed	<u>N</u>	Reactive	<u>N</u>		

Reportable Quantity (RQ) under U.S. CERCLA: Malathion (CAS: 121-75-5) 100 pounds

SARA, Title III, Section 313: Malathion (CAS: 121-75-5) 2.00%

RCRA Waste Code: Not listed.

CA Proposition 65: Not applicable



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WHMIS [Canada]: Pest control products are not controlled under WHMIS. Classified D2B
OPAC Schedule 3

Read the approved label, authorized under the Pest Control Products Act, prior to handling the pest control product.

This chemical is a pest control product registered by Health Canada Pest Management Regulatory Agency and is subject to certain labeling requirements under the Pest Control Products Act. These requirements differ from the classification criteria and hazard information required for GHS-consistent safety data sheets. Following is the hazard information required on the pest control product label.

Warning – contains the allergen wheat.

16 OTHER INFORMATION

SDS STATUS: Format revised.

PREPARED BY: Product Stewardship and Regulatory Affairs

REVIEWED BY: Safety, Health and Environment

PCP (Pest Control Products Act) Registration No. 15896

Disclaimer and Limitation of Liability: This data sheet was developed from information on the constituent materials identified herein and does not relate to the use of such materials in combination with any other material or process. No warranty is expressed or implied with respect to the completeness or ongoing accuracy of the information contained in this data sheet, and LOVELAND PRODUCTS CANADA, INC. disclaims all liability for reliance on such information. This data sheet is not a guarantee of safety. Users are responsible for ensuring that they have all current information necessary to safely use the product described by this data sheet for their specific purpose.

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UBG

MALATHION GRAIN PROTECTOR DUST

COMMERCIAL INSECTICIDE

READ THE LABEL BEFORE USING

FOR USE ON STORED GRAINS

Protects against damage from Confused Flour Beetle, Granary Weevil, Saw-toothed Grain Beetle, Flat Grain Beetle, Rusty Grain Beetle, Lesser Grain Borer and Indian Meal Moth.

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GENERAL INFORMATION

FOR USE ON STORED GRAINS: Wheat, oats, rice, rye and barley.

PROTECTS AGAINST DAMAGE from Confused Flour Beetle, Granary Weevil, Saw-toothed Grain Beetle, Flat Grain Beetle, Rusty Grain Beetle, Lesser Grain Borer and Indian Meal Moth.

DIRECTIONS FOR USE: Apply MALATHION GRAIN PROTECTOR DUST to the grain at the appropriate rate as the grain is being loaded or turned into the final storage.

	grams / 1000 kg (tonne)
Wheat	415
Rye	450
Barley	520
Oats	735
Rice	550

Limit the amount of active ingredient handled per day to 100 kg per person (approx.. 6650 metric tons at a rate of 15 g ai/tonne).

The most convenient way to apply MALATHION GRAIN PROTECTOR DUST is to treat the grain when it is in the truck or wagon prior to binning. Determine the volume of grain in the truck or wagon in metric tonnes (1000 kg). Measure out the correct amount of MALATHION GRAIN PROTECTOR DUST as per the table listed above. Spread the DUST evenly over the surface of the grain. Cut the DUST into the grain with a shovel. The DUST will become mixed with the grain as it is dumped from the truck into the auger hopper. Further mixing will occur when the grain is augered into the bin. Mixing is completed as the MALATHION GRAIN PROTECTOR DUST and grain roll down the cone-shaped pile in the bin.

To protect stored grains from attack apply MALATHION GRAIN PROTECTOR DUST to the surface of clean or infested grain at the rate of 4.75 kg/100 m² of grain surface area. Apply the DUST evenly over the surface of the grain. Apply immediately after grain is loaded into storage, and repeat if necessary. Work into a depth of 15 cm with a rake.

As this product is not registered for the control of pests in aquatic systems, **DO NOT** use to control aquatic pests. **DO NOT** contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

RESISTANCE MANAGEMENT RECOMMENDATIONS

2018-1038

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- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for the specific site and pest problems in your area.
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PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN

Avoid prolonged breathing of DUST. Avoid contact with the skin, eyes and clothing. Wash thoroughly after using. This product is highly toxic to fish and bees exposed to direct treatment of residues on crops. Protective information may be obtained from your agricultural extension service. Do not contaminate any body of water. Containers should be tightly sealed when not in use. Do not store near feed, food, fertilizers, seed and like commodities. Do not apply to grain within 7 days of selling.

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada's website at: www.croplife.ca/.

PERSONAL PROTECTIVE EQUIPMENT

Wear long pants, long sleeved shirts, and chemical-resistant gloves during mixing/loading, application, clean-up and repair.

ENVIRONMENTAL HAZARDS:

TOXIC to aquatic organisms.

TOXIC to birds.

2018-1038

2018-05-22

IMPORTANT: Use of this product, as directed will be within the tolerance of 8 parts per million for Malathion. Treated grain is not subject to downgrading and can be milled into flour or feed using normal production methods.

FIRST AID

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice.

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

IF SWALLOWED: Call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferable by mouth-to-mouth, if possible. Call a poison control centre or doctor for treatment advice.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

TOXICOLOGICAL INFORMATION

Malathion is an organophosphate that is a cholinesterase inhibitor. Typical symptoms of overexposure to cholinesterase inhibitors include headache, nausea, dizziness, sweating, salivation, runny nose and eyes. This may progress to muscle twitching, weakness, tremor, incoordination, vomiting, abdominal cramps and diarrhea in more serious poisonings. A life-threatening poisoning is signified by loss of consciousness, incontinence, convulsions and respiratory depression with a secondary cardiovascular component. Treat symptomatically. If exposed, plasma and red blood cell cholinesterase tests may indicate degree of exposure (baseline data are useful). Atropine, only by injection, is the preferable antidote. Oximes, such as pralidoxime chloride, may be therapeutic if used early; however, use only in conjunction with atropine. In cases of severe acute poisoning, use antidotes immediately after establishing an open airway and respiration. With oral exposure, the decision of whether to induce vomiting or not should be made by an attending physician.

STORAGE

Do not contaminate water, food, or feed by storage or disposal.

Keep in original container during storage. Isomalathion, a toxic metabolite of malathion, forms when malathion product is stored at elevated temperatures or for extended periods of time. Malathion product must be stored in a cool (< 23°C) dry, well ventilated place away from seed, fertilizer or other pesticides. Do not use after the expiry date on the primary panel.

2018-1038

2018-05-22

DISPOSAL

1. Empty contents of the container thoroughly.
2. Follow provincial instructions for any required additional cleaning of the container prior to its disposal.
3. Make the empty container unsuitable for further use.
4. Dispose of the container in accordance with provincial requirements.
5. For information on the disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

NOTICE TO USER: This control product is to be used only in accordance with the directions on this label. It is an offence under the PEST CONTROL PRODUCTS ACT to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.