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GROUP	1B	INSECTICIDE
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**MALATHION GRAIN
PROTECTOR DUST**

FARM & RANCH BRAND

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.

AGRICULTURAL

REGISTRATION NO. 17463 PEST CONTROL PRODUCTS ACT

GUARANTEE: Malathion 2.0%
Warning, contains the allergen wheat.

READ THE LABEL BEFORE USING

NET CONTENTS: 10 kg, 15 kg, 20kg

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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, Rusty Grain Beetle, Flat 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

The most convenient way to apply FARM & RANCH BRAND MALATHION GRAIN PROTECTOR DUST is to treat the grain when it is in the truck or wagon prior to binning. Determine the amount of grain in the truck or wagon in metric tonnes (1000 kg). Measure out the correct amount of FARM & RANCH BRAND MALATHION GRAIN PROTECTOR DUST as recommended in the table 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 FARM & RANCH BRAND MALATHION GRAIN PROTECTOR DUST and grain roll down the cone-shaped pile in the bin.

To protect stored grains from attack apply FARM & RANCH BRAND 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.

Resistance Management Recommendations: For resistance management, FARM & RANCH BRAND MALATHION GRAIN PROTECTOR DUST contains a Group 1B insecticide. Any insect population may contain individuals naturally resistant to FARM & RANCH BRAND 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 in the same fields. 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 FARM & RANCH BRAND MALATHION GRAIN PROTECTOR DUST or other Group 1B insecticides with different groups that control the same pests.

Use tank mixtures with insecticides/acaricides from a different group that is effective on the target pest 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.

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- For further information or to report suspected resistance, contact an Agrium Advanced Technologies representative at 1-800-461-6471 or at agriumat.com.

This product contains no colourant. An appropriate colourant must be added when this product is applied. Regulations pertaining to the *Seeds Act* must be strictly adhered to when using this product. A red colourant must be added when this product is applied to grain.

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.

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 or residues on crops. Wear long pants, long sleeved shirts, and chemical-resistant gloves during mixing/loading, application, clean-up and repair. Protective information may be obtained from your cooperative agricultural extension service. Do not contaminate any body of water. Container should be tightly sealed when not in use. Do not store near feed, food, fertilizers, seed and like commodities. 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., contact CropLife Canada at www.croplife.ca/

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

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 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 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.

Take container, label or product name and P.C.P. Reg. No. 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

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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 my 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 (<20-23 degrees C) dry, well ventilated place away from seed, fertilizer or other pesticides and for no longer than one year.

DISPOSAL: Empty bag thoroughly. Follow provincial instructions for any required additional cleaning of the container prior to its disposal. Make the empty container unsuitable for further use. For information on 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.

ENVIRONMENTAL HAZARDS

TOXIC to aquatic organisms.

TOXIC to birds.

TOXIC to bees.

TOXIC to certain beneficial insects.

NOTICE TO USER: This pest control product is to be used only in accordance with the directions on the 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.