

GROUP	1B	INSECTICIDE
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UBG

PYRIFOS® 15G

GRANULAR INSECTICIDE

COMMERCIAL

CAUTION POISON

WARNING: EYE IRRITANT

READ THE LABEL BEFORE USING

KEEP OUT OF REACH OF CHILDREN

GUARANTEE: Chlorpyrifos 15%

Warning, contains the allergen Tree Nuts (Walnut)

REGISTRATION NO. 24648

PEST CONTROL PRODUCTS ACT

UNITED AGRI PRODUCTS CANADA INC.

789 Donnybrook Drive

DORCHESTER, ON

N0L 1G5

1-800-265-4624

NET CONTENTS: 22.7 KG

GENERAL INFORMATION

This product is not to be used in and around homes or other residential areas such as parks, school grounds, playing fields. It is not for use by homeowners or other uncertified users.

DO NOT APPLY BY AIR. For use with ground application equipment only.

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 1-866-375-4648 or www.croplife.ca.

PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN

WARNING: EYE IRRITANT

HARMFUL IF SWALLOWED

Avoid contact with skin, eyes and clothing. Impervious chemical resistant gloves must be used, with long-sleeved shirt sleeves worn outside the gloves to prevent granules from falling into the gloves when handling this product. Work with the wind at your back to avoid breathing dust or having chemical blown into the eyes. Do not wear contaminated clothing. Gloves should be replaced frequently and clothing laundered daily. Wash thoroughly with soap and water after handling.

PRECAUTIONS FOR MIXERS/LOADERS

Mixers/Loaders must wear:

- overall over long-sleeved shirt and long pants
- chemical resistant gloves
- chemical resistant footwear and socks
- an air purifying respirator equipped with an –R or –P series filter
- chemical resistant apron

PRECAUTIONS FOR APPLICATORS

Applicators using ground application equipment with a closed cab must wear:

- long-sleeved shirt and long pants
- chemical resistant gloves when leaving the cab for cleanup and repairs (gloves must be removed when-re-entering the cab)
- socks and shoes

Applicators using ground application equipment with an open cab must wear:

- coveralls over long-sleeved shirt and long pants
- chemical resistant gloves
- socks and shoes

ENVIRONMENTAL HAZARDS

TOXIC to birds. TOXIC to wild animals. Extremely TOXIC to fish and aquatic organisms. Any spilled or exposed granules must be incorporated into the soil or otherwise cleaned up from the soil surface.

TOXIC to certain beneficial insects. Minimize spray drift to reduce harmful effects on beneficial insects in habitats next to the application site such as hedgerows and woodland.

TOXIC to bees exposed to direct treatment, drift or residues on blooming plants. DO NOT use on flowering crops or weeds.

DO NOT apply this product or allow it to drift to flowering crops or weeds if bees are visiting the treatment area. Applicators should inform local bee keepers prior to application if hives are in adjacent fields. Minimize spray drift to reduce harmful effects on bees in habitats close to the application site.

To reduce runoff from treated areas into aquatic habitats, consider the characteristics and conditions of the site before treatment. Site characteristics and conditions that may lead to runoff include, but are not limited to, heavy rainfall, moderate to steep slope, bare soil, poorly drained soil (eg., soils that are compacted or fined textured such as clay).

Avoid application of this product when heavy rain is forecast.

Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip (buffer zone) between the treated area and the edge of the water body.

FIRST AID:

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 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, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

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

TOXICOLOGICAL INFORMATION: Chlorpyrifos 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 case 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.

DISPOSAL:

1. Completely empty contents of bag into application equipment.
2. Make the empty bag unsuitable for further use.
3. Dispose of the bag in accordance with provincial requirements.
4. 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 pest 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.

RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, please note that PYRIFOS 15G Insecticide contains a Group 1B insecticide. Any insect population may contain individuals naturally resistant to PYRIFOS 15G Insecticide and other Group 1B insecticide. The resistant individuals may dominate the insect population if this group of insecticides is 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 PYRIFOS 15G Insecticide or other Group 1B insecticides with different groups that control the same pests.
- Avoid application of more than the indicated number of sprays of PYRIFOS 15G Insecticide or other insecticides in the same group in a season.
- Use tank mixtures with 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, United Agri Products Canada Inc., 1-800-265-4624 or at www.uap.ca.

DIRECTIONS FOR USE

DO NOT apply this product directly to aquatic habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs, ditches and wetlands), estuaries habitats or marine habitats.

DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

Ground application only (do not apply by aircraft).

Restricted Entry Intervals

Do not enter treated fields until 10 days after application for cauliflower, 1 day (24hrs) after application for all other crops.

Apply PYRIFOS 15G to control corn rootworm and aid in the suppression of cutworm in corn, onion maggot larvae in onions and cabbage maggot in broccoli, brussels sprouts, cabbage, cauliflower and rutabagas.

Apply as an in-furrow at-plant treatment.
Do not apply more than one (1) application per season.

A plantback interval of 30 days must be observed between application and planting of rotational crops, with the exception of radishes, Chinese cabbage, pak choi and cole crops for which no plantback restriction is required.

CORN (Field, Seed and Sweet):

Do not apply within 70 days of harvest.

To control larvae of northern and western corn rootworms and suppress cutworm larvae, apply PYRIFOS 15G at planting time as a band (row) treatment at the rate of 75 grams per 100 metres of row (11.25 grams ai/100m of row). Equivalent rates of PYRIFOS 15G per hectare for various row spacing are given in the accompanying table. Incorporate the granules into the top 2.5 cm of soil by placing a 15 to 18 cm wide band over the row behind the planter shoe and ahead of the press wheels. When applied as directed for rootworm control, this product will provide some reduction of cutworm populations. However, under heavier infestations of cutworms, further insecticidal treatment with other formulations may be necessary.

Amount of PYRIFOS 15G per 100 m of Row	Kg of PYRIFOS 15G Required for Various Row Spacings					
	75 g	102 cm	96.5 cm	91.5 cm	86.5 cm	81 cm
	7.4	7.8	8.2	8.7	9.2	9.8

GENERAL INSTRUCTIONS FOR EQUIPMENT CALIBRATION: CAUTION: The following chart lists suggested initial gauge settings for application of PYRIFOS 15G with one hopper opening per row. Be sure to check the actual application rate under your operating conditions.

1. Fill hopper.
2. Attach a plastic bag to the tub opening.
3. Set your planter to the initial settings shown on the chart.
4. Measure off 100 row meters and drive your planter the premeasured distance at your desired speed.
5. Each bag should contain 75 grams of granules depending on your desired rate.

Note: Grams WT of Granules Approx. mL (Volume)
75 grams 100 mL

6. If the result is over or under the desired rate, adjust the settings and repeat the calibration.

CALIBRATION	SPEED, Km/h								
	3	4.5	6.5	8	10	11	13	14.5	16
Application Rate, 75 g/100 Row Metres									
Planter	Gauge Setting								
Gandy ¹	13.6	16.7	19.7	22.8	24.8	26.3	27.8	29.3	30.7
John Deere 7000 Max Emerge ¹	9	12	16	19	22	25	27	30	31
John Deere 721 Flexi-Planter ²	1/22	1/25	1/28	2/4	2/7	2/11	2/16	2/22	2/29
Allis Chalmers 70 Series ³	8	8	8	8	8	8	8	8	8
Allis Chalmers 78 & 79 Series ⁴	1/2.9	1/5.1	1/7.3	2/0.5	2/2.8	2/6	2/9	3/2.3	3/5.5
Noble1 (new)	6	8	10	13	14	15	17	18	20
Noble1 (old)	7	10	13	16	19	22	25	27	30
International Harvester ⁴	1/2.9	1/5.1	1/7.3	2/0.5	1/2.8	2/6	2/9	3/2.3	3/5.5

¹ Gauge Setting

- ² Gauge Setting with range 1 & 2 - number shown is range/notch
- ³ Gauge Setting is constant regardless of speed
- ⁴ Gauge Setting shown with stem gates and dial settings - number shown is gate/dial

ONIONS:

To control larvae of the onion maggot, apply PYRIFOS 15G as an in-furrow, at-plant treatment at the rate of 7.9-15.7 kg/hectare (1.2-2.4kg ai/hectare). Refer to the table for the required amount of PYRIFOS 15G.

Spacing of Seed Furrow Width (cm)	2.5-5	7.5	10-15
Grams/100 metres	32	48	64
Kilograms of Product/ha	7.9	11.8	15.7
Kilograms ai/ha	1.2	1.8	2.4

Calculate the amount of PYRIFOS 15G per 100 metres of row required as shown in the following examples: For dry onions, using a precision seeder equipped with a double line coulters, seed furrow width is 2.5 cm per line x 2 lines; therefore, apply 32 g of PYRIFOS 15G per 100 metres of double row.

For pickling onions, use a Planet Jr. seeder equipped with a 10 cm shoe. Seed furrow width is 10 cm; therefore, apply 64 g of PYRIFOS 15G per 100 metres of row. Use no more than 16 kg of PYRIFOS 15G per hectare.

Do not harvest dry onions within 109 days of treatment (planting). Do not harvest pickling onions within 97 days of treatment (planting). Do not apply to bunching onions.

BROCCOLI, BRUSSELS SPROUTS, CABBAGE, CAULIFLOWER, AND RUTABAGAS:

To control larvae of the cabbage maggot, apply PYRIFOS 15G as an in-furrow, at-plant treatment. Apply 90-150 g ai/1000m of row. Refer to the table below for the rate of application for different row spacings. For rutabaga, do not apply within 30 days of harvest.

Rate Per Hectare at Indicated Row Spacing						
	30 cm	60 cm	75 cm	80 cm	90 cm	105 cm
g ai/1000 m row	90-150	90-150	90-150	90-150	90-150	90-150
kg product/1000 m row	0.6-1	0.6-1	0.6-1	0.6-1	0.6-1	0.6-1
kg product/ha	20-33.3	10-16.7	8-13.3	7.5-12.5	6.7-11.1	5.7-9.5
kg ai/ha	3-5	1.5-2.5	1.2-2	1.125-1.875	1-1.7	0.86-1.42

DIRECTIONS FOR USE**Potato**

In-furrow application at planting.

Crop	Pest	Rate	Maximum No. of Applications	Days Before Harvest
Potato	Wireworm	0.1 kg per 100 metres of row. (equivalent to 11.2 kg product/ha or 1.7 kg ai/ha based on 90 cm row spacing)	1	70

NOTE TO USER: READ THE FOLLOWING BEFORE USING THIS PRODUCT FOR THE INDICATED SPECIAL USE APPLICATIONS:

The DIRECTIONS FOR USE for reduction of wireworms in potato were developed by persons other than United Agri Products Canada Inc. United Agri Products Canada Inc. itself makes no representation or warranty with respect to performance (efficacy) and/or crop tolerance (phytotoxicity) in connection with the use described for reduction of wireworms in potato.

Accordingly, the Buyer and User assume responsibility for all damage or loss arising, and agree to hold United Agri Products Canada Inc. harmless from any claims based on efficacy and/or phytotoxicity in connection with the use described for reduction of wireworms in potato.