

70907-5

02-17-2004

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460



OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

FEB 17 2004

Mr. Edward Lignowski
Gharda USA, Inc.
c/o IPM Resources LLC
660 Newton-Yardley Road, Suite 105
Newton, PA 18940

Dear Mr. Lignowski:

Subject: Resubmission; Labeling Submitted in Response to the Chlorpyrifos IRED
Pilot 4E
EPA Reg. No. 70907-4
Pilot 15G
EPA Reg. No. 70907-5
Your Submission Dated December 2, 2003

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable provided you make the following change before you release the product for shipment bearing the amended labeling:

Move the prohibition, "Do not contaminate water, food or feed by storage or disposal" so that it appears **directly below** the heading Storage and Disposal.

Submit two copies of your final printed labeling before you release the product for shipment. A stamped copy is enclosed for your records. If you have any questions, please contact me at (703) 308-6249 or hebert.john@epa.gov.

Sincerely yours,

A handwritten signature in black ink, appearing to read "John Hebert".

John Hebert
Insecticide/Rodenticide Branch
Registration Division (7505C)

c: Jane Mitchell, SRRD
Tom Myers, SRRD

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RESTRICTED USE PESTICIDE

For retail sale to and use only by certified Applicators or persons under their direct supervision and only for those uses covered by the certified Applicator's certification.

PILOT™ 15G

Chlorpyrifos Agricultural Insecticide

LOW ODOR FORMULA

For control of various insects infesting certain field and vegetable crops.

Active Ingredient:

Chlorpyrifos: O,O-diethyl

)-(3,5,6-trichloro-2-pyridinyl)

phosphorothioate..... 15.0%

Inert Ingredients: 85.0%

Total: 100.0%

KEEP OUT OF REACH OF CHILDREN

CAUTION PRECAUCION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

**ACCEPTED
with COMMENTS
In EPA Letter Dated:**

FEB 17 2004
**Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under EPA Reg. No.**

70907-5

EPA Reg. No.: 70907-5

EPA Est. No.: 39578-TX-1

Net Contents: 50 pounds

Pilot is a registered trademark of Gharda USA, Inc., Newtown, PA 18940

 **Gharda USA**

**FIRST AID
(Organophosphate Insecticide)**

If inhaled:	<ul style="list-style-type: none"> Remove 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 center or doctor for further treatment advise.
If on skin or clothing:	<ul style="list-style-type: none"> Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advise.
If in eyes:	<ul style="list-style-type: none"> 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 center or doctor for treatment advise.
If swallowed:	<ul style="list-style-type: none"> Call poison control center or doctor immediately for treatment advise. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

**HOT LINE NUMBER
(Organophosphate Insecticide)**

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For emergency medical treatment information call: 1-(866)-359-5660

NOTE TO PHYSICIAN

Chlorpyrifos is a cholinesterase inhibitor. Treat symptomatically. If exposed, plasma and red blood cell cholinesterase tests may indicate significance of exposure (baseline data are useful). Atropine, only by injection, is the preferable antidote. Oximes, such as 2-PAM/protopam, may be therapeutic if used early; however, use only in conjunction with atropine. In case of severe acute poisoning, use antidote immediately after establishing an open airway and respiration.

PRECAUTIONARY STATEMENTS

Hazards To Humans And Domestic Animals

CAUTION. Harmful if swallowed. Causes eye irritation. Avoid contact with eyes, skin or clothing. Avoid breathing dust.

Personal Protective Equipment

Some materials that are chemical-resistant to this product are natural rubber and polyethylene. If you want more options, follow the instructions for category A on an EPA chemical resistance category selections chart.

All mixers, loaders, other applicators and other handlers must wear:

- coveralls over long-sleeved shirt and long pants;
- chemical-resistant gloves;
- chemical-resistant apron when mixing or loading or exposed to the concentrate;
- chemical resistant footwear plus socks;
- chemical-resistant headgear for overhead exposures;
- a NIOSH-approved dust mist filtering respirator with MSHA/NIOSH approval number prefix TC-21C or a NIOSH-approved respirator any R,P or HE filter.

User Safety Requirements

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

User Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Engineering Controls

Pilots must use an enclosed cockpit in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(6)].

When applicators use closed cab equipment in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

Environmental Hazards

This pesticide is toxic to fish, aquatic invertebrates, small mammals and birds. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent aquatic sites. Cover or incorporate spills. Do not contaminate water when disposing of equipment wash water. This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

This product is not registered in California and Arizona. California and Arizona law prohibits sale, distribution, and use within the State of any products not registered by the State.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Read all Directions for Use before applying.

Do not apply this product in a way that will contact workers or other persons either directly or through drift. Only protected handlers may be in the area during application. Do not apply by aircraft at a rate greater than 6.5 pounds of formulated product (1 pound of active ingredient) per acre. For any requirements specific to your state or tribe, consult the agency responsible for pesticide regulation.

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the required restricted entry interval (REI). The required REI's are:

For all crops: 24 hours, unless specifically otherwise noted below

- Fruit trees: 4 days
- Citrus trees: 5 days
- Cauliflower: 3 days

Also see specific Use Directions under Approved Crops Section of this label

Exception: If the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- coveralls over short-sleeved shirt and short pants;
- chemical-resistant gloves made out of water proof material;
- chemical-resistant footwear plus socks;
- chemical-resistant headgear for overhead exposure.

Notify workers of the application by warning them orally and by posting warning signs at entrances to treated areas.

STORAGE AND DISPOSAL

Storage: Store in original container in a secured dry storage area. Prevent cross contamination with other pesticides and fertilizers. If container is damaged or spill occurs, use product immediately or dispose of product and damaged container as indicated below.

In Case of Spill: Isolate the spill. Hold this package, other cargo and vehicles involved. For Emergency spill assistance Call CHEMTREC (24-hour service): 1-800-535-5053.

Pesticide Disposal: Open dumping is prohibited. Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Container Disposal: Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

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

APPROVED USES

Corn Field, Sweet Corn (including corn grown for seed)*

Application Rates and Pests Controlled

Pests Controlled	Banded Applications (Ounces per 1,000 Feet of Row)				Preplant Broadcast Application (lb./Acre)	Aerial Broadcast Application (lb/Acre)
	40-inch Row Spacing*					
	At Plant Treatments			Postplant Treatment		
	T-Band	Band	In-Furrow			
northern and western corn rootworm larvae	8	8	8	8	-	-
southern corn rootworm larvae	8	8	8	8	-	-
cutworms**	8	8	8	-	6.5	-
wireworms***	8	8	8	-	-	-
billbugs	8	8	-	-	-	-
seed corn maggots	8	-	8	-	-	-
grubs	8	-	8	-	-	-
lesser cornstalk borer	8	8	-	-	-	-
seed corn beetle	8	-	8	-	-	-
symphylans	8	8	-	-	-	-
armyworms	-	-	-	6 to 8	-	-
European and southwestern corn borer						
1st Generation	-	-	-	3.5 to 8	-	5.0 to 6.5
2nd Generation	-	-	-	6 to 8	-	6.5
fire ants**	8	-	-	-	-	-
chinch bug**	8	-	8	-	-	-

* If row spacing is less than 40 inches, the rate of Pilot 15G must be adjusted so that no more than 6.5 pounds per acre is applied. For example, for 30-inch rows, apply Pilot 15G at a rate of 6 ounces per 1000 linear feet of row (6.5 pounds per acre).

** 8 oz rate-suppression only for in-furrow treatments.

*** For best control, apply as an in-furrow treatment. Consider using a hopper box insecticidal seed treatment with band and T-band applications.

NOTE: Pilot 15G insecticide is compatible with all ALS inhibitor herbicides, including Accent, Beacon and Broadstrike herbicides, applied in accordance with label recommendations. Refer to the product labels for additional precautions and directions for use.

At Plant Band Treatment: In conventional, minimum and no-till corn, place the granules in a 6 or 7 inch wide band over the row behind the planter shoe in front of the press wheel, and incorporate into the top one inch of soil using tines or chains or other suitable equipment. For cutworm control under very dry soil conditions, best results will be obtained through proper incorporation. In soils over 10% organic matter, use the highest rate given.

At Plant T-Band Treatment: In conventional, minimum and no-till corn, for control of rootworm, cutworm, and billbug, in addition to lesser cornstalk borer, symphylans, wireworms, seed corn beetle, seed corn maggot and grubs, apply as a T-band over an open seed furrow. In conventional and minimum-till corn, incorporate into the top 1/2 to 1 inch of soil using suitable equipment. Pilot 15G has demonstrated suppression of certain soil-borne pathogens which may result in certain physiological and agronomic advantages to corn under environmental stress conditions when compared to corn not treated with Pilot 15G.

At Plant In-Furrow Treatment: Apply Pilot 15G at planting time as an in-furrow treatment in conventional, minimum and no-till corn. Direct the granules into the planter shoe with the seed or place the applicator tube directly behind the planter shoe so that the granules drop into the seed furrow or place the granular band applicator behind the planter shoe so that the granules fall on the soil surface and into the open seed furrow and are covered with soil. Equivalent rates of Pilot 15G per acre for various row spacings are given in the accompanying tables.

Postplant Treatment: To control corn rootworm larvae, apply Pilot 15G at cultivation time by placing the granules at the base of the plant on both sides of the row just ahead of the cultivation shovels and cover the soil. To control European and southwestern corn borer larvae, apply Pilot 15G in a band over the row so that the granules are directed into the whorl or use a post plant broadcast treatment. Use application rates of 3.5 to 4 oz of Pilot 15G per 1,000 feet of row for low to moderate first generation infestations before larvae have entered corn stalks. Use application rates of 6 to 8 oz of Pilot 15G per 1,000 feet of row for severe first generation infestations and all second generation infestations before larvae have entered corn stalks. Consult your state agricultural experiment station or extension service specialist for proper time to treat and local threshold information. Scouting for insect damage is strongly encouraged.

Postplant Broadcast Treatment: Use Pilot 15G for control of European and southwestern corn borers by uniformly broadcasting the granules over the corn plants by aerial application or by applying the granules into the corn whorls by ground application. Apply at a rate of 5.0 lb per acre for low to moderate first generation infestations or at 6.5 lb per acre for severe first generation infestations and all second generation infestations. Apply before larvae have entered corn stalks. Consult your state agricultural experiment station or extension service specialist for local threshold information. Scouting for insect damage is strongly encouraged.

Preplant Broadcast Treatment: Use equipment that will evenly distribute the granules over the treated area. Incorporate the granules into the soil using an S tine, C tine, disc cultivator, or other suitable incorporation equipment set to cut to a depth of 4 to 6 inches. Plant the crop in the usual manner as soon as possible after treatment.

Restrictions: Do not apply more than 2 applications per season. Do not exceed the equivalent of 16 ounces of Pilot 15G per 1,000 feet of row or 13 pounds of Pilot 15G per acre per crop season. Do not apply within 35 days before harvest of grain. Do not allow livestock to graze in treated areas nor harvest treated corn silage as feed for meat or dairy animals within 14 days after last treatment. Do not feed treated corn fodder to meat or dairy animals within 35 days after last treatment.

Onions (Dry Bulb)

Pest Controlled: onion maggot

Application Rate: 3.7 ounces per 1,000 feet of row at an 18-inch row spacing

At Plant In-Furrow Treatment: Apply as an at planting in-furrow treatment. In Colorado, Idaho, Washington, and Oregon, to control onion maggots in onions planted in double rows with rows spaced 2 to 4 inches apart, apply Pilot 15G at the rate of 3.7 oz per 1,000 feet of double row. Place the granules in a 5 to 7 inch wide band over both rows behind the planter shoe and in front of the press wheel to achieve shallow incorporation. Do not exceed 6.7 lb per acre.

Restrictions: Do not make more than one application per year.

Citrus Grove Floors

Pests Controlled: fire ants and other ant species

Application Rate: 6.7 lb/acre

Postplant Broadcast Treatment: To control foraging ants and suppress mounds, apply Pilot 15G with ground application equipment. Use a suitable granular applicator, such as a cyclone fertilizer spreader, that will uniformly broadcast the granules over the grove floor. Retreat as needed. Pilot 15G may be custom blended with granular fertilizers provided that application of the blended Pilot 15G plus fertilizer mixture can be applied uniformly to the grove floor. Do not apply where weed growth or other obstructions would impede uniform coverage of the grove floor.

Restrictions: Do not apply more than 3 applications per season. Do not apply more than 20 pounds of Pilot 15G per acre per crop season. Do not apply last treatment within 28 days before harvest. Do not allow livestock to graze in treated areas.

Sorghum/Milo

Application Rates and Pests Controlled

Pests Controlled	Banded Applications (Ounces per 1,000 feet of row)	
	At Plant Treatments	
	T-Band	Band
lesser cornstalk borer	4 to 12	4 to 12
corn rootworm and cutworms	8	8
fire ants*	8	-
chinch bug*	8	-

* 8 oz. rate - suppression only

At Plant T-Band or Band Treatments: Apply in a 6 to 8 inch band over the row and incorporate into the top 1-inch of soil using suitable equipment. Equivalent rates of Pilot 15G per acre for various row spacing is given in Table 1. Use the lowest rate for lesser cornstalk borer control when protection is desired for 2 to 3 weeks and higher rates for longer residual activity. It is absolutely necessary to incorporate the granules, especially at lower rates.

Restrictions: Do not make more than one application per season.

Peanuts

Use Pilot 15G to control cutworms, lesser cornstalk borer, southern corn rootworm larvae, suppress wireworms, and inhibit the growth and development of white mold (southern blight) disease caused by *Sclerotium rolfsii*. Pilot 15G will control only those cutworms existing in the soil from the time of application up to 30 days following application.

Application Rates and Pests Controlled

Pests Controlled	Banded Applications (Ounces/1,000 feet of row)		
	At Plant Treatment	Postplant Treatment	Aerial Broadcast (lb/Acre)
*Preventative Treatments: cutworms lesser cornstalk borer southern corn rootworm larvae wireworms white mold (Southern blight)	7.5 to 15	7.5 to 15	-
**Rescue Treatments: lesser cornstalk borer	-	7.5 to 15	10 to 13
Burrowing bug	-	-	13.3

***At Plant Preventive Treatment:** Apply Pilot 15G in a 6 to 12 inch band over the row behind the planter shoe and in front of the press wheel. Incorporate granules to a depth of 1-inch with tines or chains or other suitable equipment. If the 7.5 oz rate is used at planting time, then another application of 7.5 oz per 1,000 feet of row should be made postplant to extend control.

***Postplant Preventative Treatment:** Apply Pilot 15G to peanuts at early flowering to pegging stage of growth in a 6 to 8 inch band over the row. For extended insect control and continued suppression of white mold (southern blight), a second application of Pilot 15G may be made. Best suppression of white mold (southern blight) is obtained by applying the maximum rate of 15 oz per 1,000 ft of row for each postplant treatment. Irrigation or rain following application is needed to enhance treatment effectiveness for suppression of white mold. Under conditions of heavy white mold pressure, a suitable fungicide may also be required and must be applied separately.

****Band Rescue Treatment:** Use Pilot 15G for the control of lesser cornstalk borer when the insect first appears, usually just prior to or at pegging. Apply in a 10 to 18 inch band over the fruiting zone.

****Broadcast Rescue Treatment:** Use Pilot 15G for the control of lesser cornstalk borer when the insect first appears, usually just prior to or at pegging. Uniformly apply at a rate of 10 to 13 pounds per acre by aerial broadcast application. For control of burrowing bugs, use Pilot 15G when adults first appear, usually at mid to late pegging. Uniformly apply at a rate of 13.3 pounds per acre by aerial broadcast application. Care must be taken to ensure proper equipment calibration and delivery.

Restrictions: Do not apply more than 15 ounces of Pilot 15G per application per 1,000 feet of row or 13.3 pounds of Pilot 15G per acre per application. Do not apply more than 30 oz per 1,000 ft of row or 26.6 pounds per acre per crop season. Do not harvest within 21 days after treatment. Do not feed peanut forage or hay to meat or dairy animals. The combined total of preplant and postplant applications of Pilot 4E and Pilot 15G must not exceed 4 pounds of active ingredient per acre per crop season. Aerial application of Pilot 15G to peanuts is prohibited.

Soybeans

Application Rates and Pests Controlled

Pests Controlled	Banded Applications (Ounces per 1,000 feet of row)		
	At Plant Treatments		Postplant Treatment
	T-Band	Band	
lesser cornstalk borer	8	8	8
cutworms			

At Plant and Postplant Treatments: Use Pilot 15G insecticide to control larvae of the lesser cornstalk borer and cutworms by application at planting time or postemergence as a band (row) treatment at the rate of 8 oz per 1,000 feet of row. In the southeast apply 4 to 8 oz per 1,000 feet of row as an at-plant treatment. Equivalent rates of Pilot 15G per acre for various row spacing are given in the accompanying table. When applied at planting time incorporate the granules into the top 1 inch of soil by placing in a 4 to 10 inch band over the row behind the planter shoe and ahead of the press wheel. A drag chain can also be used for incorporation. For postemergence treatment when insects first appear incorporate the granules in a 4 to 10 inch band to a depth of 1/2 to 1 inch using a suitable cultivator. Apply Pilot 15G with equipment that will provide uniform distribution of the granules. Do not apply as an in-furrow treatment. For suppression of fire ants, use Pilot 15G at 8 oz per 1,000 feet of row as an at-plant T-band treatment.

Restrictions: Do not make more than one application per season.

Sugar Beets

Granular insecticides, including Pilot 15G, may contribute to the stress of the sugar beet plant under certain environmental conditions. This stress may reduce plant stand or interfere with normal plant development. Herbicides used preplant incorporated may interact with insecticides and enhance this stress.

Application Rates and Pests Controlled

Pests Controlled	Banded Applications (Ounces per 1,000 feet of row)		
	At Plant Treatments		Postplant Treatment
	T-Band	Band	
Sugar beet root maggot	-	4.5 to 9.0	6.5 to 9.0
cutworms	-	6.6 to 9.0	-
wireworms (suppression)	-	6.5 to 9.0	-

At Plant Band Treatment: To control sugar beet root maggot larvae and cutworms at planting time, place Pilot 15G in a band 4 to 5 inches wide behind the planter shoe, over the drill row, and in front of the press wheel. Do not apply granules in direct contact with seeds. Apply Pilot 15G at the rate of 4.5 to 9 ounces per 1,000 feet of row (equivalent to 6.75 to 13.5 lb per acre based on a 22 inch row spacing). When root maggot populations are expected to be low, apply Pilot 15G at a rate of 4.5 ounces per 1,000 feet of row (equivalent to 6.75 lb per acre based on 22 inch row spacing). If initial adult fly activity indicates higher than anticipated populations, apply Pilot 4E at or near the time of peak adult emergence to augment control. (Review label for Pilot 4E for recommended use rates, application timing, methods of application, and insecticide resistance management). Incorporate Pilot 15G into the top 1/2 to 1 inch of soil using suitable equipment.

Postemergence Band Treatment: For postemergence control of sugar beet maggot larvae, place Pilot 15G in a band 3 to 5 inches wide over the beet row (up to 2 to 4 true leaf stage of plant growth). Apply Pilot 15G at the rate of 6.5 to 9 oz per 1,000 feet of row (equivalent to 10 to 13.5 lb per acre based on a 22 inch row spacing). Incorporate Pilot 15G into the top 1/2 to 1 inch of soil using a suitable incorporation device.

Restrictions: Do not make more than one application per year.

Sunflowers

Pest Controlled: cutworms

Application Rate: 8 oz per 1,000 feet of row

At Plant Band Treatment: Place the granules in a 7 inch wide band over the row behind the planter shoe in front of the press wheel and incorporate into the top 1 inch of soil using suitable equipment.

Restrictions: Do not make more than one application per season.

Sweet Potatoes

Pests Controlled: wireworms (*conoderus*), flea beetles (*Systema*), and sweet potato beetle

Application Rate: 13.5 lb/acre

Preplant Broadcast Treatment: Use Pilot 15G to reduce the feeding damage caused by populations of the listed pests. Evenly broadcast the granules over the soil surface and then incorporate the granules into the soil to a depth of 4 to 6 inches using a rotary hoe, disc cultivator, or other suitable equipment. Plant the crop in the usual manner no later than 14 days after treatment (any delay in planting will reduce the length of time that Pilot 15G will protect against feeding damage). Pilot 15G will not control false wireworm or whitefringed beetle and other grubs that attack sweet potatoes.

Restrictions: Do not make more than one application per season. Do not harvest within 125 days of treatment.

Tobacco

Pests Controlled: cutworms, flea beetle larvae, root maggots, and wireworms

Application Rate: 13.5 to 20.0 lb/acre

Preplant Broadcast Treatment: Apply Pilot 15G one week before transplanting, using equipment that will evenly distribute the granules over a treated area. Immediately following application, incorporate the granules into the soil to a depth of 2 to 4 inches using suitable equipment. The application of Pilot 15G will also suppress movement of imported fire ant into treated field.

Restrictions: Do not make more than one application per season.

Brassica (Cole) Crops

(Bok Choy, Broccoli, Broccoli Raab, Brussels Sprout, Cabbage, Cauliflower, Chinese Broccoli, Chinese Cabbage, Collards, Kale, Kohlrabi, Rutabagas and Turnips)

Pest Controlled: root maggot

Application Rate: 4.6 to 9.2 ounces per 1,000 feet of row

At Plant T-Band Treatment: For direct seeded and transplanted crops, apply Pilot 15G as a 4-inch wide band centered over the row. This application requires a spreader or splitter on the end of the applicator drop tube. Shallow incorporation is necessary. Placement behind the planter shoe and in front of the press wheel is recommended.

Restrictions: Do not apply more than 7 1/2 pounds of Pilot 15G per acre to crops planted in 40 inch rows or more than 15 pounds of Pilot 15G per acre to crops planted in 20 inch rows (or two rows per bed). Use proportional amounts for other row spacing not to exceed 15 pounds of Pilot 15G per acre. Do not make more than one application per season. Do not use rutabaga tops for food or feed purposes.

Radishes

Pest Controlled: root maggot

Application Rate: 3.3 ounces per 1,000 feet of row

At Plant In-Furrow Treatment: Place the granules in the seed furrow with the seed at planting time.

Restrictions: Do not apply more than 18.3 pounds of Pilot 15G per acre or make more than one application per season.

Table 1
Application Rates Table-Application Rates/1,000 Ft. of Row and Equivalent/Acre at Different Row Spacing

Amount of Pilot 15G Per 1,000 Feet of Row	Pounds of Pilot 15G Required Per Acre from Various Row Spacing						
	40"	38"	36"	34"	32"	30"	22"
3.7 ounces	3.0	3.2	3.4	3.6	3.8	4.0	5.5
4.0 ounces	3.3	3.4	3.6	3.8	4.1	4.4	5.9
4.5 ounces	3.7	3.9	4.1	4.3	4.6	4.9	-
6.0 ounces	4.9	5.2	5.4	5.8	6.1	6.5	-
6.5 ounces	5.3	5.6	5.9	6.2	-	-	-
7.5 ounces	6.1	6.4	-	-	-	-	-
8.0 ounces	6.5	-	-	-	-	-	-

General Instructions for Equipment Calibration of Equipment

Caution: The following chart lists suggested initial gauge settings for application of Pilot 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 tube opening.
3. Set your planter to the initial settings shown on chart.
4. Measure off 1,000 row feet and drive your planter the pre-measured distance at your desired speed.
5. Each bag should contain 6 to 8 ounces (wt.) of granules depending on your desired rate.
6. If the result is over or under the desired rate, adjust the settings and repeat the calibration.

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Table 2
Equipment Calibration and Calibration Settings for Different Types of Equipment
Application Rate, 8 oz. Per 1,000 row ft.

	Speed (mph)				
	4	5	6	7	8
Planter Type	Gauge Setting				
Gandy ¹	21.4	23.7	26.0	27.7	30.2
John Deere ¹ Max-Emerge ²	20	26	30	35	40
John Deere ¹ 7000 Max-Emerge (Odd Nos. on Gate)	14	16	18	19	21
John Deere ¹ 7000 Max-Emerge (Even Nos. on Gate)	17	20	24	26	28
John Deere ² 71 Flexi-Planter and Older Planters	$\frac{1}{30}$	$\frac{2}{5}$	$\frac{2}{9}$	$\frac{2}{13}$	$\frac{2}{16}$
Allis Chalmers ³ 70 Series	8	8	8	8	8
Allis Chalmers ⁴ 78 & 79 Series	$\frac{1}{9.0}$	$\frac{2}{3.3}$	$\frac{2}{6.0}$	$\frac{2}{9.0}$	$\frac{3}{2.5}$
Noble ¹ (NEW)	11	14	16	17	19
White Planter	11	14	16	17	19
International Harvester ⁴	$\frac{1}{9.0}$	$\frac{2}{3.3}$	$\frac{2}{6.0}$	$\frac{2}{9.0}$	$\frac{3}{2.5}$
Buffalo All-Flex ⁵ (Fleischer Mfg.)	4 7/8	4 7/8	4 7/8	-	-

¹ Gauge setting

² Gauge setting with range 1 & 2 - number is range.
notch

³ Gauge setting is constant regardless of speed.

⁴ Gauge setting shown with stem gates & dial settings - number shown is gate.
dial

⁵ Number of turns open on the adjustment nut.

Notice of Warranty and Disclaimer

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