

51036-300

9-19-2000

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

Sept 19, 2000

Mr. Matthew Talley
P.O. Box 772099
Memphis, TN 38117-2099

Subject: Chlorpyrifos 15G, MOA Compliance
EPA Reg No.: 51036-300
Submission Dated Aug 2, 2000

Dear Mr. Talley:

The revised labeling referenced to above, submitted in connection with the registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) as amended, is acceptable, provided you incorporate the Agency's conditions as enumerated in this letter below and submit one copy of your final, printed label prior to releasing the product for shipment.

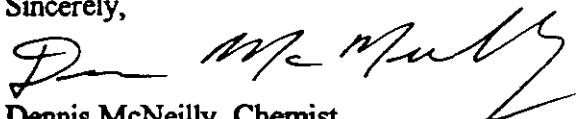
1. The Restricted Entry Interval for Citrus Grove Floors (page 7) is 24 hours.
2. The 5-Day Restricted Entry Interval should be deleted from the Agricultural Use Requirements box (page 3) because there are no use directions involving the foliar treatment of citrus.
3. The Restricted Entry Interval for Cauliflower (page 13) is 24 hours.

The Agency is not required to publish a use deletion FR Notice for this product amendment. The conditions of paragraph 5 of the June 2000 Memorandum of Agreement apply to this label amendment, specifically this amended label is effective December 1, 2000. Failure to comply with any of the conditions of registration set forth in Paragraph 10 of the MOA shall be grounds for cancellation of the affected registration(s) under FIFRA section 6(e). If the conditions enumerated above are not complied with, the registration will be subject to cancellation in accordance with FIFRA Section 6(e). Specifically, this product is to be marketed in bags no smaller than 50 pounds.

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A stamped copy of the label is enclosed for your files. If you have questions, please contact me at (703) 308-6742 or electronically at McNeilly.Dennis@EPA.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "Dennis McNeilly", written over a horizontal line.

Dennis McNeilly, Chemist
Insecticide-Rodenticide Branch
Registration Division (7505C)

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CHLORPYRIFOS 15G

GRANULAR INSECTICIDE

For Control of various insects infesting certain field and vegetable crops

ACTIVE INGREDIENT(S):

Chlorpyrifos: O,O-diethyl O-(3,5,6-trichloro-2-pyridinyl) phosphorothioate 15.0%

INERT INGREDIENT(S) 85.0%

TOTAL 100.0%

KEEP OUT OF REACH OF CHILDREN

CAUTION

PRECAUTION

FIRST AID

Organophosphate

IF SWALLOWED: Call a poison control center 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 center or doctor. Do not give anything by mouth to an unconscious person.

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 center 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 center 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 mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

NOTE TO PHYSICIAN: Chlorpyrifos is a cholinesterase inhibitor. 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 2-PAM/protopam, 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.

EPA Reg. No. 51036-300

EPA Est. No. 51036-GA-001

ACCEPTED
with COMMENTS
In EPA Letter Dated:

SEP 19 2000

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

51036-300

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NET CONTENTS:

Manufactured By:
MICRO FLO COMPANY
P.O. BOX 772099
MEMPHIS, TN 38117

PRECAUTIONARY STATEMENTS
Hazards To Humans and Domestic Animals

CAUTION

Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Avoid contact with eyes, skin, and clothing. Avoid breathing dusts.

EMERGENCY TELEPHONE NUMBERS: Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact:

- (800) 424-9300 CHEMTREC (transportation and spills)
- (800) 900-4044 Poison Control Center (human health)
- (800) 345-4735 ASPCA (animal health)

PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers must wear:

1. Long-sleeved shirt and long pants
2. Waterproof gloves
3. Shoes plus socks

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

USER SAFETY RECOMMENDATIONS

Users should:

1. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
2. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to birds and wildlife, and extremely toxic to fish and aquatic organisms. 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

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may be hazardous to aquatic organisms in adjacent aquatic sites. Cover or incorporate spills. Do not contaminate water when disposing of equipment washwaters.

DIRECTIONS FOR USE

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

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. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

Read all Directions for Use carefully before applying.

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 intervals. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

This product may only be formulated for the agricultural uses listed below if the EPA-approved labeling of the formulated product bears worker restricted entry intervals (REI) of a duration no less than the following:

For all crops: 24 hours, unless specifically noted below

- Tree nuts and sweet potatoes: 2 days
- Fruit trees : 4 days
- Citrus trees : 5 days

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:

1. Coveralls
2. Waterproof gloves
3. Shoes plus socks

STORAGE AND DISPOSAL

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Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited.

Pesticide Disposal: 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.

APPROVED USES

CORN

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

APPLICATION RATES AND PESTS CONTROLLED

Pests Controlled	Banded Appli cation Ounces per 1000 row feet				Preplant Broadcast	Aerial Broadcast
	T-Band	Band	In-Furrow	Postplant Treatment	Application (lb/Acre)	Application (lb/Acre)
Northern, Western & Southern corn rootworm larvae	8	8	8	8	-	-
Cutworms**	8	8	8 - 16	-	6.75 to 13.5	-
Wireworms***	8 - 16	16	8 - 16	-	13.5	-
Billbugs	8 - 16	8-16	-	-	13.5	-
Seedcorn maggots	8	-	8	-	-	-
Grubs	16	-	8 - 16	-	13.5	-
Lesser cornstalk borer	8 - 16	8-16	-	-	-	-
Seed Corn beetle	8 - 16	-	8 - 16	-	-	-
Flea beetle larvae	-	-	-	-	13.5	-
Symphylans	8 - 12	8-12	-	-	-	-
Armyworms	-	-	-	6 - 8	-	-
European and Southwestern corn borer: -First Generation	-	-	-	3.5 - 8	-	5.0 - 6.5

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Pests Controlled	Banded Application Ounces per 1000 row feet				Preplant Broadcast	Aerial Broadcast
	T-Band	Band	In-Furrow	Postplant Treatment	Application (lb/Acre)	Application (lb/Acre)
-Second Generation	-	-	-	6 - 8	-	6.5
Fire ants	8	-	-	-	-	-
Chinch bugs**	8	-	-	-	-	-
Nematodes, (NC, SC, VA)	-	16	-	-	-	-
Nematodes, Southeast	16	-	-	-	-	-
(Note-See below for details)						

* Chlorpyrifos 15G is compatible with Accent and Beacon herbicides applied in accordance with label recommendations. Refer to the product labels for Accent and Beacon for additional precautions and directions for use.

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

*** 8 oz rate-suppression only unless used with a hopper box insecticidal seed treatment.

At Plant Band Treatment:

In conventional, minimum and no-till corn, place the granules in a 6 to 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. For suppression of nematodes in North Carolina, South Carolina and Virginia, apply Chlorpyrifos 15G insecticide as a 7 to 10 inch wide band at the rate of 16 oz per 1,000 feet of row. Incorporate with drag chains, tines, or other suitable equipment to a depth of 1 or 2 inches.

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, wireworm, seed corn beetle, seed corn maggot and grubs, apply 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. For suppression of nematodes in the Southeast, use Chlorpyrifos 15G as a T-Band treatment at 16 oz per 1,000 feet of row over an open seed furrow.

Chlorpyrifos 15G has demonstrated suppression of certain soilborne pathogens which may result in certain physiological and agronomic advantages to corn under environmental stress conditions when

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compared to corn not treated with Chlorpyrifos 15G.

At Plant In-Furrow Treatment:

Apply Chlorpyrifos 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 seed furrow and are covered with soil. Equivalent rates of Chlorpyrifos 15G per acre for various row spacings are given in the accompanying table.

Postplant Treatment:

To control corn rootworm larvae, apply Chlorpyrifos 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 Chlorpyrifos 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 Chlorpyrifos 15G per 1000 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 Chlorpyrifos 15G per 1000 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 Chlorpyrifos 15G for control of European and southwestern corn borers by uniformly broadcasting the granules over the corn plants by aerial application or applying the granules into the corn whorls by ground application. Apply at a rate of 5.0 lbs. per acre for low to moderate first generation infestations or at 6.5 lbs. 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.

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RESTRICTIONS:

For soil insect control, do not exceed the equivalent of 16 ounces of Chlorpyrifos 15G per 1,000 feet of row or 13.5 pounds of Chlorpyrifos 15G per acre per crop season. For foliar insect control, do not exceed the equivalent of 16 ounces of Chlorpyrifos 15G per 1,000 feet of row or 13 pounds of Chlorpyrifos 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.

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 Chlorpyrifos 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. Chlorpyrifos 15G may be custom blended with granular fertilizers provided that application of the blended Chlorpyrifos 15G/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 67 pounds of Chlorpyrifos 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. Restricted Entry Interval (REI) is 2 days.

SORGHUM/MILO

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Application Rates and Pests Controlled

Pests Controlled	Banded (Ounces per 1,000	Applications 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 Chlorpyrifos 15G per acre for various row spacings are 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 crop season.

ONIONS (Dry Bulb)

Pests 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 Chlorpyrifos 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.

PEANUTS

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Use Chlorpyrifos 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*. Chlorpyrifos 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)		Aerial Broadcast (lb/acre)
	At Plant Treatment	PostPlant Treatment	
*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 Preventative Treatment:

Apply Chlorpyrifos 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 Chlorpyrifos 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 Chlorpyrifos 15G may be made. Best suppression of white mold (southern blight) is obtained by applying the maximum rate of 15 oz. per 1,000 feet 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:

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Use Chlorpyrifos 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 Chlorpyrifos 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 Chlorpyrifos 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 Chlorpyrifos 15G per application per 1,000 feet of row or 13.3 pounds of Chlorpyrifos 15G per acre per application. Do not apply more than 30 oz. per 1000 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 Chlorpyrifos 15G must not exceed 4 pounds of active ingredient per acre per crop season.

SOYBEANS
Application Rates and Pests Controlled

Pests Controlled	Banded Applications (Ounces/ 1,000 Feet of Row)		Postplant Treatment
	At Plant Treatment		
	T-Band	Band	
Lesser Cornstalk Borer Curworms	8	8	8
Fire ants*	8	-	-

* 8 oz. rate - suppression only.

At Plant and Postplant Treatments:

Use Chlorpyrifos 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 ounces 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 Chlorpyrifos 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

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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 Chlorpyrifos 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 Chlorpyrifos 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 crop season.

SUGAR BEETS

Granular insecticides, including Chlorpyrifos 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 (Ounces/ of Row)	Applications 1,000 Feet Row)	Postplant Treatment
	At Plant	Treatments	
	T-Band	Band	
Sugar Beet Root Maggot	-	4.5 to 9	6.5 to 9
Cutworms	-	6.6 to 9.0	-
Wireworms (suppression)	-	6.5 to 9	-

At Plant Band Treatment:

To control sugar beet root maggot larvae and cutworms at planting time, place Chlorpyrifos 15G in a band 4-5 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 Chlorpyrifos 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 Chlorpyrifos 15G at a rate of 4.5 ounces per 1000 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 Chlorpyrifos 4E AG at or near the time of peak adult emergence to augment control. (Review label for Chlorpyrifos 4E AG for recommended use rates, application timing, methods of application, and insecticide resistance management). Incorporate Chlorpyrifos 15G into the top 1/2 to 1 inch of soil using a suitable incorporation equipment.

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Postemergence Band Treatment:

For postemergence control of Sugar Beet Maggot Larvae, place Chlorpyrifos 15G in a band 3 to 5 inches wide over the beet row (up to the 2 to 4 leaf stage of plant growth). Apply Chlorpyrifos 15G at the rate of 6.5 to 9 oz. per 1000 feet of row (equivalent to 10 to 13.5 lb. per acre based on 22 inch row spacing). Incorporate Chlorpyrifos 15G into the top 1/2 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 one 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 Chlorpyrifos 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 Chlorpyrifos 15G will protect against feeding damage). Chlorpyrifos 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 crop season. Do not harvest within 125 days of treatment.

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TOBACCO

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

Application Rate: 13.5 to 20 lb/acre

Preplant Broadcast Treatment:

Apply Chlorpyrifos 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 Chlorpyrifos 15G will also suppress movement of imported fire ant into a treated field.

RESTRICTIONS:

Do not make more than one application per season.

BRASSICA (COLE) CROPS

Broccoli, Brussels Sprouts, Cabbage, Cauliflower, 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 Chlorpyrifos 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 Chlorpyrifos 15G per acre to crops planted in 40-inch rows or more than 15 pounds of Chlorpyrifos 15G per acre to crops planted in 20-inch rows (or two rows per bed). Use proportional amounts for other row spacings not to exceed 15 pounds of Chlorpyrifos 15G per acre. Do not make more than one application per crop season. Do not use rutabaga tops for food or feed purposes. Restricted entry interval (REI) is 3 days for cauliflower. Pre-harvest interval (PHI) for cauliflower is 10 days.

RADISHES

Pest Controlled: root maggot

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

At Plant In-Furrow Treatment:

Place the granule in the seed furrow with the seed at planting time.

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RESTRICTIONS:

Do not apply more than 18.3 pounds of Chlorpyrifos 15G per acre or make more than one application per crop season.

Table 1

Chlorpyrifos 15G Insecticide-Application Rates per 1,000 ft of row and equivalent per acre application rates at various row spacings

Amount of Chlorpyrifos 15G Per 1,000 Feet of Row	Pounds of Chlorpyrifos 15G required Per Acre from Different Row Spacing							
	40"	38"	36"	34"	32"	30"	22"	18"
3.7 ounces	3.0	3.2	3.4	3.6	3.8	4.0	5.5	6.7
4 ounces	3.3	3.4	3.6	3.8	4.1	4.4	5.9	7.3
4.5 ounces	3.7	3.9	4.1	4.3	4.6	4.9	6.7	8.2
6 ounces	4.9	5.2	5.4	5.8	6.1	6.5	8.9	10.9
6.5 ounces	5.3	5.6	5.9	6.2	6.6	7.1	9.7	11.8
7.5 ounces	6.1	6.4	6.8	7.2	7.7	8.2	11.1	13.6
8 ounces	6.5	6.9	7.3	7.7	8.2	8.7	11.9	14.5
9 ounces	7.4	7.7	8.2	8.6	9.2	9.8	13.4	16.3
12 ounces	9.8	10.3	10.9	11.5	12.3	13.1	17.8	21.8
15 ounces	12.3	12.9	13.9	14.4	15.3	16.3	22.3	27.2
16 ounces	13.1	13.8	14.5	15.4	16.3	17.4	23.8	29.0

Table 2

Equipment Calibration and Calibration Settings for Different Types of Equipment

General Instructions for Equipment Calibration

Caution: The following chart lists suggested initial gauge settings for application of Chlorpyrifos 15G Insecticide 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 tub 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.

	Calibration Setting									
	Speed MPH									
	4		5		6		7		8	
	Application Rate oz. per 1,000 row feet									
	8	16	8	16	8	16	8	16	8	16
Planter Type	Gauge Setting									
Gandy ₁	21.4	30.2	23.7	32.4	26.0	36.0	27.7	39.0	30.2	41.0
John Deere ₁ Max-Emerge ₂	20	44	26	46	30	49	35	52	40	54
John Deere ₁ 7000 Max-Emerge (Odd Nos on Gate)	14	22	16	24	18	26	19	28	21	30
John Deere ₁ 7000 Max-Emerge (Even Nos on Gate)	17	30	20	33	24	35	26	36	28	38
John Deere ₂ 71 Flexi-Planter and Older Planters	$\frac{1}{30}$	$\frac{2}{17}$	$\frac{2}{5}$	$\frac{2}{22}$	$\frac{2}{9}$	$\frac{2}{27}$	$\frac{2}{13}$	$\frac{2}{31}$	$\frac{2}{16}$	$\frac{3}{16}$
Allis Chalmers ₃ 70 Series	8	13	8	13	8	13	8	13	8	13
Allis Chalmers ₄ 78 & 79 Series	$\frac{1}{9.0}$	$\frac{3}{3.0}$	$\frac{2}{3.3}$	$\frac{3}{9.5}$	$\frac{2}{6.0}$	$\frac{4}{3.0}$	$\frac{2}{9.0}$	$\frac{5}{4.0}$	$\frac{3}{2.5}$	$\frac{6}{0}$
Noble ₅ (New)	11	19	14	22	16	25	17	28	19	31
White Planter	11	19	14	22	16	25	17	28	19	31

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International harvester,	1 9.0	3 3.0	2 3.3	3 9.5	2 6.0	4 3.0	2 9.0	5 4.0	3 2.5	6 0
Buffalo All-Flex, (Fleischer Mfg)	4 7/8	10	4 7/8	10	4 7/8	10	-	-	-	-

- 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.

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