

66222-18

10-24-2003

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



OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

OCT 24 2003

Ms. Anne Stout
MANA, Inc.
551 Fifth Avenue, Suite 1100
NY, NY 10176

Dear Ms. Stout:

**Subject: Labeling Submitted in Response to the Chlorpyrifos IRED
Chlorpyrifos 15G
EPA Reg. No. 66222-18
Your Submission Dated May 9, 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 changes before you release the product for shipment bearing the amended labeling:

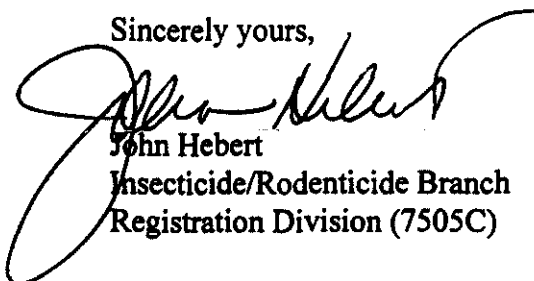
1. For corn, the maximum amount of chlorpyrifos to be applied per season is 2 lbs. ai/acre/season - including all types of treatment, both pre and post plant. Revise the Restrictions (the first two bullet points) so that this maximum seasonal amount is not exceeded.
2. The maximum application rate for corn (all formulations and types of application) is 1 lb ai/acre or 6.67 lbs of Chlorpyrifos 15G. The application chart must be revised to reflect this restriction.
2. Under Directions for Use for Corn, Postplant Broadcast Treatment add the following: "For aerial applications do not apply within 150 feet of rivers, natural ponds, lakes, streams, reservoirs, marshes, estuaries and commercial ponds."

Approval of this labeling amendment does not constitute approval of your application for reregistration of this product. Product reregistration is currently pending and future labeling amendments and/or additional data may be required.

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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,



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

c: Venus Eagle, SRRD
Tom Myers, SRRD

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ACCEPTED
with COMMENTS
In EPA Letter Dated:
OCT 24 2003

CHLORPYRIFOS 15G

GRANULAR INSECTICIDE

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 166-223-18

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

ACTIVE INGREDIENT

Chlorpyrifos: 0,0-diethyl 0-(3,5,6-trichloro-2-pyridinyl) phosphorothioate 15.0%

INERT INGREDIENTS: 85.0%

TOTAL 100.0%

KEEP OUT OF REACH OF CHILDREN CAUTION

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.

Have the product container or label with you when calling a poison control center or doctor or going for treatment.

Note to Physician: This product contains an organophosphate that inhibits cholinesterase.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

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

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category A on an EPA chemical-resistance category selection chart.

Loaders, applicators, and all other handlers must wear:

- Coveralls over long-sleeved shirt and long pants
- Chemical-resistant gloves
- Chemical-resistant footwear plus socks
- A NIOSH approved respirator with any N, R, P, or HE filter

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.

NET CONTENTS: 50 POUNDS

(note to reviewer: 50 lbs. is the minimum package size allowed)

EPA Reg. No. 66222-18
EPA Est. No. 11678-IS-01

Makhteshim-Agan of North America, Inc.
551 Fifth Avenue, Suite 1100
New York, NY 10176

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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.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE 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.

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 may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when disposing of equipment washwaters or rinsate.

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.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product 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.

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.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of:

REI for all crops is 24 hours except:

Cauliflower: 3 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:

- Coveralls over short sleeved shirt and short pants
- Chemical resistant gloves made out of any waterproof material
- Chemical resistant footwear plus socks
- Chemical resistant headgear for overhead exposures

Certified crop advisors or persons entering fields under their direct supervision under certain circumstances may be exempt from the early reentry requirement pursuant to 40 CFR Part 170.

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

**TABLE 1
CHLORPYRIFOS 15G INSECTICIDE
APPLICATION RATES OF CHLORPYRIFOS 15G PER 1,000 FEET 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 oz.	3.0	3.2	3.4	3.6	3.8	4.0	5.5	6.7
4 oz.	3.3	3.4	3.6	3.8	4.1	4.4	5.9	7.3
6 oz.	4.9	5.2	5.4	5.8	6.1	6.5	8.9	10.9
6.5 oz.	5.3	5.6	5.9	6.2	6.6	7.1	9.7	11.8
7.5 oz.	6.1	6.4	6.8	7.2	7.7	8.2	11.1	13.6
8 oz.	6.5	6.9	7.3	7.7	8.2	8.7	11.9	14.5
9 oz.	7.4	7.7	8.2	8.6	9.2	9.8	13.4	16.3

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12 oz.	9.8	10.3	10.9	11.5	12.3	13.1	17.8	21.8
15 oz.	12.3	12.9	13.9	14.4	15.3	16.3	22.3	27.2
16 oz.	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 applications 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 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.

CALIBRATION SETTING

PLANTER TYPE	SPEED (MPH)									
	4		5		6		7		8	
	APPLICATION RATE (OZ. OF CHLORPYRIFOS 15G PER 1,000 ROW FEET)									
	8	16	8	16	8	16	8	16	8	16
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 ¹ (New)	11	19	14	22	16	25	17	28	19	31
White Planter	11	19	14	22	16	25	17	28	19	31
International Harvester ⁴	$\frac{1}{9.0}$	$\frac{3}{3.0}$	$\frac{2}{3.3}$	$\frac{3}{9.5}$	$\frac{2}{6.0}$	$\frac{4}{3.0}$	$\frac{2}{9.0}$	$\frac{5}{4.0}$	$\frac{3}{2.5}$	$\frac{6}{0}$
Buff-lo All-Flex ⁵ (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.

**APPROVED USES
CORN (FIELD CORN, SWEET CORN (INCLUDING CORN GROWN FOR SEED))
APPLICATION RATES AND PESTS CONTROLLED**

PESTS CONTROLLED	AMOUNT OF CHLORPYRIFOS 15G IN OUNCES PER 1,000 FEET OF ROW				
	AT PLANT TREATMENTS			POSTPLANT TREATMENT	PREPLANT BROADCAST APPLICATION (LBS./ACRE)
	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	8-16	-	6.67
Wireworms**	8-16	16	8-16	-	6.67
Billbugs	8-16	8-16	-	-	6.67

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Seedcorn maggots	8	-	8	-	-
Grubs	16	-	8-16	-	6.67
Lesser cornstalk borer	8-16	8-16	-	-	-
Seedcorn beetle	8-16	-	8-16	-	-
Flea beetle larvae	-	-	-	-	6.67
Symphylans	8-12	8-12	-	-	-
Armyworms, European and southwestern corn borer***	-	-	-	6-8	-
Fire ants**	8	-	-	-	-
Chinch bug	8	-	8	-	-

*8 oz. rate of Chlorpyrifos 15G-suppression only for in-furrow treatments.

**8 oz. rate of Chlorpyrifos 15G-suppression only.

***Use 5.0 to 6.5 lbs. of Chlorpyrifos 15G per acre applied broadcast by air.

At Plant Band Treatment

In conventional, minimum, and no-till corn, place 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. of Chlorpyrifos 15G per 1,000 feet of row. Incorporate with drag chains.

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, wireworm, seedcorn beetle, seedcorn 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. of Chlorpyrifos 15G per 1,000 feet of row over an open seed furrow. Chlorpyrifos 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 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 postplant broadcast treatment. Consult your state agricultural experiment station or extension service specialist for proper time to treat and for further information concerning soil insect control in your area.

Postplant Broadcast Treatment

Use Chlorpyrifos 15G for control of European and southwestern corn borer by uniformly broadcasting the granules over the corn plants by aerial application or applying the granules into the corn whorls by ground application. 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

- For soil insect control, do not exceed the equivalent of 16 oz. of Chlorpyrifos 15G per 1,000 feet of row or 13.3 lbs. of Chlorpyrifos 15G per acre per crop season.
- For foliar insect control, do not exceed the equivalent of 16 oz. of Chlorpyrifos 15G per 1,000 feet of row or 13 lbs. of Chlorpyrifos 15G per acre per crop season.
- Do not apply within 35 days before harvest of grain.

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- Do not allow livestock to graze in treated areas nor harvest treated corn silage as feed for meat and 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.
- Do not apply more than 6.67 lbs. (1 lb. a.i.) per acre in a single application.
- Do not make more than 2 applications per season.
- Do not apply more than 13.33 lbs. (2 lbs. a.i.) per acre per season.

CITRUS GROVE FLOORS

Pests Controlled: Fire ants and other ant species
 Application Rate: 6.7 lbs. of Chlorpyrifos 15G per 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 make more than 3 applications per season.
- Do not apply more than 20 lbs. (3 lbs. a.i.) 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.

**SORGHUM/MILO
 APPLICATION RATES AND PESTS CONTROLLED**

PESTS CONTROLLED	BANDED APPLICATIONS (OUNCES OF CHLORPYRIFOS 15G PER 1,000 FEET OF ROW)	
	AT PLANT TREATMENTS	
	T-BAND	BAND
Lesser cornstalk borer	4-12	4-12
Corn rootworm and Cutworms	8	8
Fire ants*	8	-
Chinch bugs*	8	-

* 8 oz. rate of Chlorpyrifos 15G-suppression only.

At Plant T-Band or Band Treatment

Apply in a 6- to 8-inch band over the row and incorporate into the top one-inch of soil using suitable equipment as indicated. 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 of Chlorpyrifos 15G per crop season.

ONIONS (Dry Bulb)

Pest Controlled: Onion maggot
 Application rate: 3.7 oz. of Chlorpyrifos 15G 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 at the rate of 3.7 oz. of Chlorpyrifos 15G per 1,000 feet of double row. Place the granules in a 4- 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 lbs. of Chlorpyrifos 15G per acre.

RESTRICTIONS

- Do not make more than one application of Chlorpyrifos 15G per year.

PEANUTS

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.

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APPLICATION RATES AND PESTS CONTROLLED

PESTS CONTROLLED	BANDED APPLICATIONS (OUNCES OF CHLORPYRIFOS 15G PER 1,000 FEET OF ROW)	
	AT PLANT TREATMENT	POSTPLANT TREATMENT
	*Preventive treatments: Cutworms, Lesser cornstalk borer, Southern corn rootworm larvae, Wireworms, White mold (southern blight)	7.5-15
**Rescue treatments: Lesser cornstalk borer	-	7.5-15

***At Plant Preventive 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 of Chlorpyrifos 15G is used at planting time, then another application of 7.5 oz. of Chlorpyrifos 15G per 1,000 feet of row should be made postplant to extend control.

***Postplant Preventive 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. of Chlorpyrifos 15G 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**

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 lbs. of Chlorpyrifos 15G per acre by aerial broadcast application. Care must be taken to ensure proper equipment calibration and delivery.

RESTRICTIONS

- Do not apply more than 15 oz. of Chlorpyrifos 15G per application per 1,000 feet of row or 13.3 lbs. of Chlorpyrifos 15G per acre per application.
- Do not apply more than 30 oz. of Chlorpyrifos 15G per 1,000 feet of row or 26.6 lbs. of Chlorpyrifos 15G 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 lbs. of active ingredient per acre per crop season.
- Aerial applications are prohibited.

SOYBEANS

APPLICATION RATES AND PESTS CONTROLLED

PESTS CONTROLLED	BANDED APPLICATIONS (OUNCES OF CHLORPYRIFOS 15G PER 1,000 FEET OF ROW)		
	AT PLANT TREATMENTS		POSTPLANT TREATMENT
	T-BAND	BAND	
Lesser cornstalk borer, Cutworms	8	8	8

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 oz. of Chlorpyrifos 15G per 1,000 feet of row. In the southeast, apply 4 to 8 oz. of Chlorpyrifos 15G 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 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 Chlorpyrifos 15G with equipment that will provide uniform distribution of granules. Do not apply as an in-furrow treatment. For suppression of fire ants, use Chlorpyrifos 15G at 8 oz. of Chlorpyrifos 15G per 1,000 feet of row as an at-plant T-band treatment.

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RESTRICTIONS

- Do not make more than one application of Chlorpyrifos 15G per crop season.

SUGAR BEETS

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

APPLICATION RATES AND PESTS CONTROLLED

PESTS CONTROLLED	BANDED APPLICATIONS (OUNCES OF CHLORPYRIFOS 15G PER 1,000 FEET OF ROW)		
	AT PLANT TREATMENTS		POSTPLANT TREATMENT
	T-BAND	BAND	
Sugar beet root maggot	-	6.5-9	6.5-9
Cutworms	-	6.5-9	-

At Plant Band Treatment

To control sugar beet root maggot larvae and cutworms at planting time, place Chlorpyrifos 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 at the rate of 6.5 to 9 oz. of Chlorpyrifos 15G per 1,000 feet of row (equivalent to 10 to 13.3 lbs. of Chlorpyrifos 15G per acre based on a 22-inch row spacing). Incorporate Chlorpyrifos 15G into the top 1/2 to 1 inch of soil using a suitable incorporation device.

RESTRICTIONS

- Do not make more than one application of Chlorpyrifos 15G per year. Do not exceed 13.33 lbs. (2 lbs. a.i.) per acre per season.

SUNFLOWERS

Pest Controlled: Cutworms

Application Rate: 8 oz. of Chlorpyrifos 15G 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 of Chlorpyrifos 15G per season.

SWEET POTATOES

Pests Controlled: Wireworms (*Conoderus*), flea beetles (*Systema*), and sweet potato beetle

Application Rate: 13.5 lbs. of Chlorpyrifos 15G/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 wireworms or whitefringed beetle and other grubs that attack sweet potatoes.

RESTRICTIONS

- Do not make more than one application of Chlorpyrifos 15G per crop season.
- Do not harvest within 125 days of treatment.

TOBACCO

Pests Controlled: Cutworms, Flea beetle larvae, Root maggots, Wireworms

Application Rate: 13.5 to 20 lbs. of Chlorpyrifos 15G/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 apply more than 20 lbs. (3 lbs. a.i.) per application. Do not make more than one application of Chlorpyrifos 15G per season.

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BRASSICA (COLE) CROPS

(Broccoli, Brussels Sprouts, Cabbage, Cauliflower, Chinese Cabbage, Collards, Kale, Kohlrabi, Rutabagas, and Turnips)

Worker Restricted Entry Interval: Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 3 days for cauliflower and 24 hours for all other vegetables unless PPE required for early entry is worn.

Pest Controlled: Root maggot

Application Rate: 3.6 to 9.2 oz. of Chlorpyrifos 15G per 1,000 feet of row

At Plant T-Band Treatment

For direct-seeded and transplanted crops, apply Chlorpyrifos 15G per acre to crops planted in 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 7½ lbs. of Chlorpyrifos 15G per acre to crops planted in 40-inch rows or more than 15 lbs. 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 lbs. of Chlorpyrifos 15G per acre.
- Do not make more than one application of Chlorpyrifos 15G per crop season.
- Do not use rutabaga tops for food or feed purposes.

RADISHES

Pest Controlled: Root maggot

Application Rate: 3.3 oz. of Chlorpyrifos 15G per 1,000 feet of row

At Plant In-Furrow Treatment

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

RESTRICTIONS

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

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store in a cool, dry place.

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.

FOR 24-HOUR EMERGENCY ASSISTANCE (SPILL, LEAK OR FIRE), CALL INFOTRAC AT (800) 535-5053.

WARRANTY STATEMENT

Seller warrants that the product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use, but neither this warranty nor any other warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE, express or implied, extends to the use of this product contrary to label instruction or under abnormal conditions or under conditions not reasonably foreseeable to seller, and buyer assumes the risk of any such use. Buyer assumes all risks of use, storage, or handling of this material not in strict accordance with directions given herewith.

Chlorpyrifos 15G (66222-18)(to EPA 5-15-03)(DCI response)