

66222-18

12/20/2012

1/11

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



OFFICE OF  
CHEMICAL SAFETY AND  
POLLUTION PREVENTION

December 20, 2012

Ms. Brooke Hedrick  
Makhteshim Agan of North America, Inc.  
3120 Highwoods Blvd., #100  
Raleigh, NC 27604

Subject: Amended labeling to implement required spray drift mitigation measures  
Product Name: Chlorpyrifos 15G  
EPA Registration Number: 66222-18  
Submission dated August 24, 2012; resubmission dated December 7, 2012

Dear Ms. Hedrick:

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, is acceptable. A stamped copy of the label is enclosed for your records. Please submit one copy of your final printed labeling before you release the product for shipment. Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). If you have any questions, please contact Julie Chao by phone at 703-308-8735, or by email at [chao.julie@epa.gov](mailto:chao.julie@epa.gov).

Regards,

A handwritten signature in black ink, appearing to read "Venus Eagle".

for

Venus Eagle, Product Manager 01  
Insecticide-Rodenticide Branch  
Registration Division (7505P)

2/11

# CHLORPYRIFOS 15G

## GRANULAR INSECTICIDE

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

<b>ACTIVE INGREDIENT</b>	% By Wt
Chlorpyrifos: O,O-diethyl O-(3,5,6-trichloro-2-pyridinyl) phosphorothioate.....	15.0%
<b>OTHER INGREDIENTS</b> .....	85.0%
	<b>Total 100.0%</b>

### KEEP OUT OF REACH OF CHILDREN CAUTION

Manufactured for:  
**Makhteshim Agan of North America, Inc.**  
3120 Highwoods Blvd., Suite 100  
Raleigh, NC 27604

EPA Reg. No. 66222-xxx 10

EPA Est. No. XXXXXXXXXX

**NET CONTENTS: \_\_\_\_\_ GAL**

FIRST AID	
<b>IF SWALLOWED:</b>	<ul style="list-style-type: none"> <li>• Call a Poison Control Center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to by a Poison Control Center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>IF IN EYES:</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a Poison Control Center or doctor for treatment advice.</li> </ul>
<b>IF ON SKIN OR CLOTHING:</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a Poison Control Center or doctor for treatment advice.</li> </ul>
<b>IF INHALED:</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.</li> <li>• Call a Poison Control Center or doctor for further treatment advice.</li> </ul>
<p><b>HOT LINE NUMBER:</b> Have the product container or label with you when calling a Poison Control Center or doctor or going for treatment. You may also contact Prosar at 1-877-250-9291 for emergency medical treatment information.</p> <p><b>NOTE TO PHYSICIANS:</b> This product contains an organophosphate that inhibits cholinesterase. 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.</p>	

ACCEPTED

DEC 20 2012

Under the Federal Insecticide, Fungicide,  
and Rodenticide Act, as amended, for the  
pesticide registered under:

EPA. Reg. No: 66222-18

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS & DOMESTIC ANIMALS  
CAUTION**

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

**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 dust/mist filtering respirator with a MSHA/NIOSH approval number prefix TC-21 or 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.

**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 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.

4/11

### 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 restricted-entry interval (REI). The REI for each crop is listed in the directions for use associated with each crop.

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.

### INSTRUCTIONS, INFORMATION, AND RESTRICTIONS

Do not apply by aircraft at a rate greater than 1 lb. a.i. per acre.

#### SPRAY DRIFT MANAGEMENT

The buffer distances specified in the below table are the distances in feet that must exist to separate sensitive sites from the targeted application site. Buffers are measured from the edge of the sensitive site to the edge of the application site.

Sensitive sites are areas frequented by non-occupational bystanders (especially children). These include residential lawns, pedestrian sidewalks, outdoor recreational areas such as school grounds, athletic fields, parks and all property associated with buildings occupied by humans for residential or commercial purposes. Sensitive sites include homes, farmworker housing, or other residential buildings, schools, daycare centers, nursing homes, and hospitals. Non-residential agricultural buildings, including barns, livestock facilities, sheds, and outhouses are not included in this prohibition.

Application rate (lb ai/A)	Required Setback (Buffer Zones) (feet)	
	Aerial	Ground**
> 0.5 - 1	25	10
> 1 - 2	Not allowed	10
> 2 - 3	Not allowed	10
> 3 - 4	Not allowed	10
> 4	Not allowed	10

\*\* The required buffer zones for ground application apply to applications made via spreaders.

Only pesticide handlers are permitted in the setback area during application of this product. Do not apply this product if anyone other than a mixer, loader, or applicator, is in the setback area. Exception: Vehicles and persons riding bicycles that are passing through the setback area on public or private roadways are permitted.

**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 15 G 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
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
Gandy <sup>1</sup>	21.4	30.2	23.7	32.4	26.0	36.0	27.7	39.0	30.2	41.0
John Deere <sup>1</sup> Max-Emerge <sup>2</sup>	20	44	26	46	30	49	35	52	40	54
John Deere <sup>1</sup> 7000 Max-Emerge (Odd Nos. on Gate)	14	22	16	24	18	26	19	28	21	30
John Deere <sup>1</sup> 7000 Max-Emerge (Even Nos. on Gate)	17	30	20	33	24	35	26	36	28	38
John Deere <sup>2</sup> , 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 <sup>3</sup> 70 Series	8	13	8	13	8	13	8	13	8	13
Allis Chalmers <sup>4</sup> 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 <sup>1</sup> (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 <sup>4</sup>	$\frac{1}{9.0}$	$\frac{3}{3.0}$	$\frac{2}{3.3}$	$\frac{3}{9.5}$	$\frac{2}{6.0}$	$\frac{4}{3.0}$	$\frac{2}{9.0}$	$\frac{5}{4.0}$	$\frac{3}{2.5}$	$\frac{6}{0}$
Buff-lo All-Flex <sup>5</sup> (Fleischer Mfg.)	4 7/8	10	4 7/8	10	4 7/8	10	-	-	-	-

<sup>1</sup>Gauge setting.

<sup>2</sup>Gauge setting with range 1 & 2-number is range

6/11

notch

<sup>3</sup>Gauge setting is constant regardless of speed.

<sup>4</sup>Gauge setting shown with stem gates & dial settings-number shown is gate  
dial

<sup>5</sup>Number of turns open on the adjustment nut.

**APPLICATION INSTRUCTIONS  
CORN (FIELD CORN, SWEET CORN (INCLUDING CORN GROWN FOR SEED)) (REI 24 HOURS)  
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	-	6.6 (1 lb. a.i.)
Wireworms**	8	16	8	-	6.6 (1 lb. a.i.)
Billbugs	8	8	-	-	6.6 (1 lb. a.i.)
Seedcorn maggots	8	-	8	-	-
Grubs	16	-	8	-	6.6 (1 lb. a.i.)
Lesser cornstalk borer	8	8	-	-	-
Seedcorn beetle	8	-	8	-	-
Flea beetle larvae	-	-	-	-	6.6 (1 lb. a.i.)
Symphylans	8-12	8-12	-	-	-
Armyworms, European and southwestern corn borer***	-	-	-	6-8	-
Chinch bug	8	-	8	-	-

\*8oz. 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 ½ 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.

7/11

**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. For aerial applications do not apply within 150 feet of rivers, natural ponds, lakes, streams, reservoirs, marshes, estuaries, and commercial ponds.

**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**

- *Preharvest Interval: Do not apply within 21 days before harvest of grain or ears.*
- *Do not apply by aircraft at a rate greater than 1 lb. a.i. chlorpyrifos per acre.*
- *Do not make more than 1 at-plant application and 1 foliar application of chlorpyrifos 15G per season at the 1 lb ai chlorpyrifos rate.*
- *Do not make more than 3 applications of any product containing chlorpyrifos per season, including the maximum allowed of 2 granular applications, at the 1 lb ai chlorpyrifos rate. Re-treatment with a second soil application of chlorpyrifos 15G is allowed under replant situations due to loss of crop during establishment only when initially applied at the rate of 1 lb.*
- *Do not apply more than a total of 3 lb ai chlorpyrifos per acre per season.*
- *Do not make a second application of chlorpyrifos 15G or other product containing chlorpyrifos within 10 days of the first application.*
- *Maximum single application rate for at-plant applications is 8 oz of chlorpyrifos 15G per 1000 ft. of row (1.3 lb ai chlorpyrifos per acre).*
- *Maximum single application rate for postplant application is 6.6 lb of chlorpyrifos 15G (1lb ai chlorpyrifos) per acre.*
- *If more than 1 lb ai granular chlorpyrifos per acre is applied at-plant (for a maximum of 1.3 lb ai chlorpyrifos per acre per season), only 1 additional application of a liquid product containing chlorpyrifos at 1 lb ai chlorpyrifos per acre is allowed per season, for a total of 2.3 lb ai chlorpyrifos per acre per season.*

**CITRUS GROVE FLOORS (REI 5 DAYS)**

Pests Controlled: Other ant species  
Application Rate: 6.6 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. 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. (3lbs. 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 (REI 24 HOURS)  
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
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) (REI 24 HOURS)**

Pest Controlled: Onion maggot

Application rate: 3.7 oz. of Chlorpyrifos 15G per 1,000 feet of row at 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.

**RESTRICTIONS**

- Do not make more than one application of Chlorpyrifos 15G per year.
- Do not exceed 6.6 lbs of Chlorpyrifos 15G per acre

**PEANUTS (REI 24 HOURS)**

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 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. 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 15 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 post plant applications of Chlorpyrifos 15G must not exceed 4 lbs. of active ingredient per acre per crop season.
- Aerial applications are prohibited.

**SOYBEANS (REI 24 HOURS)  
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 ½ 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.

**RESTRICTIONS**

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

**SUGAR BEETS (REI 24 HOURS)**

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 ½ to 1 inch of soil using a suitable incorporation device.

**RESTRICTIONS**

- Do not exceed 19.9 lbs. (3lbs. a.i.) per acre per season.

**SUNFLOWERS (REI 24 HOURS)**

10/  
11

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 (REI 24 HOURS)**

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 (REI 24 HOURS)**

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

Application Rate: 13.5 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.

**RESTRICTIONS**

- Do not apply more than 13.2 lbs. (2 lbs a.i.) per application.
- Do not make more than one application of Chlorpyrifos 15G per season.

**BRASSICA (COLE) CROPS (REI 24 HOURS)**

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

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 7 ½ 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 (REI 24 HOURS)**

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.

11/11

**RESTRICTIONS**

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

**STORAGE AND DISPOSAL**

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

**PESTICIDE STORAGE** Store above 32 F in original containers only. If product solidifies return to room temperature and agitate to reconstitute. Keep container closed when not in use. Do not store near food or feed In case of spill or leak on floor or paved surfaces soak up with sand earth or synthetic absorbent. Remove to chemical waste area.

**PESTICIDE DISPOSAL** 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.

**CONTAINER HANDLING [Less Than 5 Gallons]**

Non-refillable container. Do not reuse or refill this container. Offer for recycling if available. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or mix tank. Drain for 10 seconds after the flow begins to drip. Fill the container 1/2 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or mix tank or store rinsate for later use and disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill or by incineration or if allowed by state and local authorities by burning If burned stay out of smoke.

**CONTAINER HANDLING [For Bulk and Mini Bulk Containers]**

Refillable container. Refill this container with pesticide only. Do not use this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the person refilling. To clean container before final disposal empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill or by incineration or by other procedures allowed by state and local authorities.

**CONTAINER IS NOT SAFE FOR FOOD FEED OR DRINKING WATER**

**LIMITATION OF WARRANTY AND LIABILITY**

Read the entire directions for use, conditions of warranties and limitations of liability before using this product. If terms are not acceptable, return the unopened product container at once.

By using this product, user or buyer accepts the following **CONDITIONS, DISCLAIMER OF WARRANTIES and LIMITATIONS OF LIABILITY.**

**CONDITIONS:** The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Makhteshim Agan of North America, Inc. All such risks shall be assumed by the user or buyer.

**DISCLAIMER OF WARRANTIES:** To the extent consistent with applicable law, Makhteshim Agan of North America, Inc. makes no other warranties, express or implied, of merchantability or of fitness for a particular purpose or otherwise, that extend beyond the statements made on this label. No agent of Makhteshim Agan of North America, Inc. is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. To the extent consistent with applicable law, Makhteshim Agan of North America, Inc. disclaims any liability whatsoever for special, incidental or consequential damages resulting from the use or handling of this product.

**LIMITATIONS OF LIABILITY:** To the extent consistent with applicable law, the exclusive remedy of the user or buyer for any and all losses, injuries or damages resulting from the use or handling of this product, whether in contract, warranty, tort, negligence, strict liability or otherwise, shall not exceed the purchase price paid or at Makhteshim Agan of North America, Inc.'s election, the replacement of product.