

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



OFFICE OF
CHEMICAL SAFETY AND
POLLUTION PREVENTION

December 20, 2012

Tide International USA, Inc.
c/o Mr. Mike Kellogg
Pyxis Regulatory Consulting, Inc.
4110 136th Street NW
Gig Harbor, WA 98332

Subject: Amended labeling to implement required spray drift mitigation measures
Product Name: Chlorpyrifos 15G
EPA Registration Number: 84229-26
Submission dated August 30, 2012; resubmission dated December 10, 2012

Dear Mr. Kellogg:

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.

Regards,

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

Handwritten initials, possibly "foi", in black ink.

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

2/15

CHLORPYRIFOS 15G

GRANULAR INSECTICIDE

For Control of listed insects infesting certain field and vegetable crops

ACTIVE INGREDIENT(S):

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

OTHER INGREDIENT(S) 85.0%

TOTAL 100.0%

KEEP OUT OF REACH OF CHILDREN
CAUTION PRECAUCION

FIRST AID	
IF SWALLOWED:	<ul style="list-style-type: none"> • 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:	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
IF ON SKIN OR CLOTHING:	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
IF INHALED:	<ul style="list-style-type: none"> • 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.
<p align="center">Organophosphate NOTE TO PHYSICIAN</p> <p>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.</p>	
<p align="center">HOT LINE NUMBER</p>	
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact CHEMTREC at 1-800-424-9300 for emergency medical treatment information.</p>	

EPA Reg. No. 84229-26
EPA Est. No.

Manufactured For:
Tide International USA, Inc.
21 Hubble
Irvine, CA 92618

NET WEIGHT: _____

ACCEPTED

DEC 20 2012

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

EPA. Reg. No: 84229-26

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.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are barrier laminates and Viton. If you want more options, follow the instructions for category H on an EPA chemical resistance category selection chart.

Loaders, Applicators and all other handlers must wear:

1. coveralls over long-sleeved shirt and long pants
2. Chemical-resistant gloves
3. Chemical-resistant footwear plus socks
4. A NIOSH-approved dust mist filtering respirator with MSHA/NIOSH approval number prefix TC-21C or a NIOSH-approved respirator any N, R, P, or HE filter.

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

USER SAFETY RECOMMENDATIONS

Users should:

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

ENGINEERING CONTROLS

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

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

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish, aquatic invertebrates, small mammals and birds. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff 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.

Do not enter or allow 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.

Read all Directions for Use carefully before applying.

Preharvest interval restrictions:

Crop	PHI*
Broccoli	30
Brussels Sprouts	30
Cabbage	30
Cauliflower	30
Chinese cabbage	30
Citrus Grove Floor	28
Collards	30
Field Corn, Sweet Corn (including corn grown for seed)	21
Kale	30
Kohlrabi	30
Onions (dry Bulb)	60
Peanuts	21
Radishes	7
Rutabagas	7
Soybeans	28
Sugar Beets	30
Sunflowers	42
Sweet Potatoes	125
Tobacco	7
Turnips	30

*PHI = Pre-Harvest Interval or the number of days to wait between the last application and harvest.

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 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:

1. Coveralls over short sleeved shirt and short pants
2. Chemical resistant gloves made out of any waterproof material
3. Chemical resistant footwear plus socks
4. Chemical resistant headgear for over head exposures

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

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 away from excessive heat. Do not store near food, feed, fertilizers, seeds, or other pesticides. Keep this product out of reach of children and animals at all times. Store in original container only.

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: Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Offer for recycling, if available, or dispose of empty bag in a sanitary landfill.

SPRAY DRIFT RESTRICTIONS

Aerial application to peanuts is prohibited.

Do not apply by aircraft at a rate greater than 1 lb. ai/A.

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.

APPROVED USES

BRASSICA (COLE) CROPS

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. Restricted entry interval (REI) is 3 days for cauliflower.

Crops	Pests Controlled	This Product (oz/1000 ft of row)
Broccoli Brussels Sprouts Cabbage Cauliflower Chinese Cabbage Collards Kale Kohlrabi Turnips	Root maggot	4.6 - 9.2 (4.6 - 8 for cauliflower)

Restrictions:

- Restricted Entry Interval (REI) is 24 hours, except for cauliflower. The REI for cauliflower is 3 days.
- Do not apply within 30 days of harvest.
- The maximum single application rate is 1.4 oz. ai chlorpyrifos per 1000 ft of row, except for cauliflower. For cauliflower, the maximum application rate is 1.2 oz ai/1,000 ft. of row.
- Do not make a foliar application of any other product containing chlorpyrifos within 10 days of an at-plant application of Chlorpyrifos 15G.
- 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.

CITRUS GROVE FLOORS**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.

Pests Controlled	This Product (Lbs./A)
Ants (excluding fire, harvester, pharaoh and carpenter)	6.6

Restrictions

- Restricted Entry Interval (REI) is 5 days.
- Do not apply more than 20 lbs. of Chlorpyrifos 15G per year (3 lb. ai per acre per season).
- Maximum Number of Applications per Season: 3
- Do not apply last treatment within 28 days before harvest.
- Do not allow livestock to graze in treated areas.
- Do not make a second application within 10 days of any application of chlorpyrifos to the orchard.
- Do not apply more than 1 lb. ai chlorpyrifos per application.

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

Chlorpyrifos 15G is compatible with all ALS inhibitor herbicides applied in accordance with label recommendations.

At-Plant T-Band Application

Apply 8 oz of Chlorpyrifos 15G per 1000 ft of row as a T-band over an open seed furrow over the row behind the planter shoe, in front of the press wheel. In conventional and minimum-till corn, incorporate into the top 1/2 to 1 inch of soil using suitable equipment. A soil applied T-band treatment may be followed by post-applied herbicides. Chlorpyrifos 15G has demonstrated suppression of certain soil-borne pathogens that may result in physiological and agronomic advantages to corn under environmental stress conditions when compared to corn not treated with Chlorpyrifos 15G.

At-Plant In-Furrow Application

Apply 8 oz of Chlorpyrifos 15G per 1000 ft of row at planting as an in-furrow treatment in conventional, minimum and no-till corn. Direct the granules into the planter shoe with the seed, or place the applicator tube directly behind the planter shoe so that the granules drop into the seed furrow, or place the granular band applicator behind the planter shoe so that the granules fall on the soil surface and into the open seed furrow and are covered with soil.

Postplant Application

To control corn rootworm larvae, apply 8 oz of Chlorpyrifos 15G per 1000 ft of row at cultivation by placing the granules at the base of the plant on both sides of the row just ahead of the cultivation shovels and covering the granules with 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 local threshold information. Scouting for insect damage is strongly encouraged.

Postplant Broadcast Application

To control European and southwestern corn borers, apply Chlorpyrifos 15G by uniformly broadcasting the granules over the corn plants by aerial application or by applying the granules into the corn whorls by ground application. For aerial applications, do not apply within 150 feet of rivers, natural ponds, lakes, streams, reservoirs, marshes, estuaries and commercial fish ponds. Apply at a rate of 5 lb per acre for low to moderate first generation infestations or at 6.5 lb per acre for severe first generation infestations and all second generation infestations. Apply before larvae have entered corn stalks. Consult your state agricultural experiment station or extension service specialist for local threshold information. Scouting for insect damage is strongly encouraged.

Pests Controlled	Banded/In furrow Applications (oz/1000 feet of row)			Aerial Broadcast Application (lb/acre)
	At-Plant Applications		Postplant Application	
	T-Band	In-Furrow		
armyworms	-	-	6 - 8	-
billbugs	8	-	-	-
chinch bug (1)	8	8	-	-
cutworms (1)	8	8	-	-
European and southwestern corn borer (3)				
1st Generation	-	-	3.5 - 8	5 - 6.5
2nd Generation	-	-	6 - 8	6.5
grubs	8	8	-	-
lesser cornstalk borer	8	-	-	-
northern and western corn rootworm larvae	8	8	8	-
seed corn beetle	8	8	-	-
seed corn maggots	8	8	-	-
southern corn rootworm larvae	8	8	8	-
symphylans	8	-	-	-
wireworms (2)	8	8	-	-

Numbers in parentheses (-) refer to Pest-Specific Use Directions.

Pest-Specific Use Directions:

- Cutworms, fire ants and chinch bugs:** The 8 oz rate provides suppression only for in-furrow treatments.
- Wireworms:** For best control, apply as an in-furrow treatment. Consider using a hopper box insecticidal seed treatment with T-band applications.
- European corn borer:** When using postplant banded applications, use 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.

Specific Use Restrictions:

- **Worker Restricted Entry Interval:** Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours unless PPE required for early entry is worn.
- **Preharvest Interval:** Do not apply within 21 days before harvest of grain or ears.
- Do not allow meat or dairy animals 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 apply by aircraft at a rate greater than 1 lb ai 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. ai per acre.
- 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 applications is 6.5 lb of Chlorpyrifos 15G (1 lb 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 per acre per season), only 1 additional application of a liquid product containing chlorpyrifos at 1 lb ai per acre is allowed per season, for a total of 2.3 lb ai chlorpyrifos per acre per season

ONIONS - (Dry Bulb)

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 6.6 lb Chlorpyrifos 15G per acre (1 lb. ai chlorpyrifos).

Pests Controlled	This Product (oz/1000 ft of row)
Onion maggot	3.7

Restrictions:

- Restricted Entry Interval (REI) is 24 hours.
- Do not make more than one application per year.
- Do not apply last treatment within 7 days before harvest.
- Do not apply more than 1 lb. ai chlorpyrifos per crop per season.
- Do not make more than 1 application of any product containing chlorpyrifos 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.

Application Rates and Pests Controlled

Pests Controlled	Banded Applications (Ounces per 1,000 Feet Row)	
	At Plant Treatment	Post Plant 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
Burrowing Bug	-	-

*** 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:**

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.

Restrictions:

- Restricted Entry Interval (REI) is 24 hours.
- Aerial application to peanuts is prohibited.
- Do not make more than 2 applications of Chlorpyrifos 15G per year.
- Do not make a second application of Chlorpyrifos 15G or any other product containing chlorpyrifos within 10 days of the first application.
- Do not apply more than 15 ounces of Chlorpyrifos 15G per application per 1,000 feet of row.
- Do not apply more than 30 oz. per 1000 ft. of row.
- 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.

RADISHES**At Plant In-Furrow Treatment:**

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

Pests Controlled	This Product (oz/1000 ft of row)
Root maggots	3.3

Restrictions:

- Restricted Entry Interval (REI) is 24 hours.
- Do not apply within 7 days before harvest.

- The maximum single application rate is 0.5 oz ai chlorpyrifos per 1000 ft of row (2.75 lb ai chlorpyrifos per acre).
- Do not apply more than 18.3 pounds of Chlorpyrifos 15G per acre or make more than one application per crop season.

RUTABAGAS

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.

Pests Controlled	This Product (oz/1000 ft of row)
Root maggot	4.6 – 9.2

Restrictions:

- Restricted Entry Interval (REI) is 24 hours.
- Do not apply within 7 days before harvest.
- Application rate is 10.56 oz Chlorpyrifos 15G per 1000 ft of row.
- The maximum single application rate is 1.6 oz ai chlorpyrifos per 1000 ft of row (8.8 lb ai chlorpyrifos per acre).
- Do not make more than one application per crop season.
- Do not use rutabaga tops of food or feed purposes.

SORGHUM / MILO

Application Rates and Pests Controlled

Pests Controlled	Banded Applications At Plant Treatments (Ounces per 1,000 Feet of Row)	
	T-Band	Band
lesser cornstalk borer	4 to 8	4 to 8
corn rootworm and cutworms	8	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:

- Restricted Entry Interval (REI) is 24 hours.
- Do not make more than one application per crop season.
- Do not make a foliar application of any other product containing chlorpyrifos within 10 days of an at-plant application of Chlorpyrifos 15G.
- Do not apply last treatment within 7 days before harvest.

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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 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 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 Table 1. When applied at planting time incorporate the granules into the top 1 inch of soil by placing in a 4 to 10 inch band over the row behind the planter shoe and ahead of the press wheel. A drag chain can also be used for incorporation. For postemergence treatment when insects first appear incorporate the granules in a 4 to 10 inch band to a depth of 1/2 to 1 inch using a suitable cultivator. Apply Chlorpyrifos 15G with equipment that will provide uniform distribution of the granules. Do not apply as an in-furrow treatment.

Restrictions:

- Restricted Entry Interval (REI) is 24 hours.
- Do not make more than one application per crop season.
- Do not apply within 28 days of harvest.
- The maximum single application rate is 2 lb ai chlorpyrifos per acre for preplant/at-plant incorporation and 1 lb ai chlorpyrifos per acre for foliar and postharvest application.
- Do not make more than 2 applications of other products containing chlorpyrifos.
- Do not make a foliar application of any other product containing chlorpyrifos within 10 days of an at-plant application of Chlorpyrifos 15G.

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 Applications (Ounces / 1,000 Feet of 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 6.7 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 6.7 lb. per acre based on 22 inch row spacing). If initial adult fly activity indicates higher than anticipated populations, apply Chlorpyrifos 15G at or near the time of peak adult emergence to augment control. (Review label for Chlorpyrifos 15G 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.

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 9.7 to 13.4 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:

- Restricted Entry Interval (REI) is 24 hours.
- Do not make more than one application per season.
- Do not apply within 30 days of harvest.
- Do not apply more than a total of 3 lb. ai chlorpyrifos per acre per year, or make more than 3 applications of products containing chlorpyrifos per season.
- Do not make a foliar application of any other product containing chlorpyrifos within 10 days of an at-plant application of Chlorpyrifos 15G.

SUNFLOWERS

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.

Pests Controlled	This Product (oz/1000 ft of row)
Cutworms	8

Restrictions:

- Restricted Entry Interval (REI) is 24 hours.
- Do not make more than one application per season.
- Do not apply within 30 days of harvest.
- The maximum single application rate is 2 lb ai chlorpyrifos per acre for preplant/at-plant incorporation and 1 lb ai chlorpyrifos per acre for foliar and postharvest application.
- Do not make more than 2 applications of other products containing chlorpyrifos.
- Do not make a foliar application of any other product containing chlorpyrifos within 10 days of an at-plant application of Chlorpyrifos 15G.

SWEET POTATOES

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 white fringed beetle and other grubs that attack sweet potatoes.

Pests Controlled	This Product (Lbs./A)
Wireworms (<i>Conoderus</i>), flea beetles (<i>Systema</i>), and sweet potato beetle	13.5

Restrictions:

- Restricted Entry Interval (REI) is 24 hours.
- Do not make more than one application per crop season.
- Do not harvest within 125 days of treatment.
- The maximum single application rate is 2 lb ai chlorpyrifos per acre.

TOBACCO

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.

Pests Controlled	This Product (Lbs./A)
Cutworms, flea beetle larvae, root maggots, and wireworms	13.5

Restrictions:

- Restricted Entry Interval (REI) is 24 hours.
- Do not make more than one application per season.
- Do not apply within 7 days before harvest.
- The maximum single application rate is 2.025 lb. ai chlorpyrifos per acre.

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.

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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.

Planter Type	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
	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 No.s on Gate)	14	22	16	24	18	26	19	28	21	30
John Deere ₁ 7000 Max-Emerge (Even No.s 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	$\frac{1}{9.0}$	$\frac{3}{3.0}$	$\frac{2}{3.3}$	$\frac{3}{9.5}$	$\frac{2}{6.0}$	$\frac{4}{3.0}$	$\frac{2}{9.0}$	$\frac{5}{4.0}$	$\frac{3}{2.5}$	$\frac{6}{0}$
Buffalo 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.

Warranty and Disclaimer Statement

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. Such risks may arise from weather conditions, soil factors, off-target movement, unconventional farming techniques, the presence of other materials, the manner of use or application, or other unknown factors, all of which are beyond the control of Tide International USA, Inc. ("Tide"), and can cause crop injury, injury to non-target crops or plants, ineffectiveness of the product, or other unintended consequences. To the extent consistent with applicable law, all such risks shall be assumed by the user or buyer.

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[EPA approval date]