

5481-525

12/20/2012

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



OFFICE OF
CHEMICAL SAFETY AND
POLLUTION PREVENTION

December 20, 2012

Ms. Krystal Bailey
AMVAC Chemical Corporation
4659 MacArthur Court, Suite 1200
Newport Beach, CA 92660

Subject: Amended labeling to implement required spray drift mitigation measures
Product Name: Lorsban 15G SmartBox
EPA Registration Number: 5481-525
Submission dated November 20, 2012

Dear Ms. Bailey:

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 "Julie Chao".

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

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Lorsban® 15G SmartBox®

For use in the SmartBox® system only, a closed handling and application system.
For control of listed insects infesting certain field and vegetable crops.

ACTIVE INGREDIENT:

Chlorpyrifos: O,O-diethyl O-(3,5,6-trichloro-2-pyridinyl) phosphorothioate.....15%

INERT INGREDIENTS.....85%

TOTAL100%

U.S. Patent 4,380,537

KEEP OUT OF REACH OF CHILDREN CAUTION / PRECAUCION

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

FIRST AID	
Organophosphate	
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 swallowed:	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have a 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.
EMERGENCY INFORMATION	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. FOR THE FOLLOWING EMERGENCIES, PHONE 24 HOURS A DAY:	
For Medical Emergencies phone:.....1-888-681-4261	
For Transportation Emergencies, including spill, leak or fire, phone: CHEMTREC.....1-800-424-9300	
For Product Use Information, phone: AMVAC.....1-888-462-6822	
NOTE TO PHYSICIAN	
Chlorpyrifos is a cholinesterase inhibitor. Treat symptomatically. If exposed, plasma and red blood cell cholinesterase tests may indicate significance of exposure (baseline data are useful). Atropine, only by injection, is the preferable antidote. Oximes, such as 2-PAM/protopam, may be therapeutic if used early; however, use only in conjunction with atropine. In case of severe acute poisoning, use antidote immediately after establishing an open airway and respiration.	

EPA Reg. No. 5481-525

EPA Est. No. _____

Net Contents: As Marked on Container

ACCEPTED
DEC 20 2012

AMVAC
 4100 E. Washington Blvd.
 Los Angeles, CA 90023 U.S.A
 1-888-462-6822

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

EPA Reg. No: 5481-525

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Harmful If Swallowed • Causes Moderate Eye Irritation

Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling.

Do not attempt to open or tamper with the container. Do no attempt to repair the SmartBox container. If repairs are necessary, contact your local AMVAC sales representative or the manufacturer of the SmartBox system.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are barrier laminate or viton. For more information, follow instructions in Supplement Three of PR Notice 93-7. If you want more options, follow the instructions for category H on an EPA chemical resistance category selections 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 MSHA/NIOSH approval number prefix TC-21C 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

IMPORTANT: The SmartBox system, when used correctly, qualifies as a closed loading system under the WPS. Loaders using the SmartBox system must:

- Wear the PPE specified above for loaders
- In addition to wearing the required PPE, have immediately available for use in case of an emergency –
 - Chemical-resistant apron
 - Chemical-resistant footwear, and

When applicators use closed cab equipment in a manner that meets the requirements listed in the 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.

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)].

Use of human flaggers is prohibited. Mechanical flagging equipment must be used.

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 cleaning equipment or 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.

Read all Directions for Use carefully before applying.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your state or tribe, consult the agency responsible for pesticide regulation.

This product is available only in the SmartBox, a closed handling and application system.

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

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 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.

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

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

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and 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.

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

SPRAY DRIFT MITIGATION

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.

APPLICATION INFORMATION

SMARTBOX INFORMATION

The SmartBox system should be properly calibrated by a person familiar with operation of the system to assure an accurate application rate of Lorsban 15G. Lorsban 15G must be applied with the SmartBox system. Please refer to the SmartBox operator's manual for detailed information on system operation and calibration procedures. Do not attempt to open or tamper with the SmartBox container. Do not attempt to repair the SmartBox container. If repairs are necessary, contact your local AMVAC sales representative or the manufacturer of the SmartBox system

APPLICATION RATES

Application Rates/1000 Ft of Row and Equivalent/Acre at Different Row Spacings

Ounces of Lorsban 15G Per 1000 Feet of Row	Pounds of Lorsban 15G Required Per Acre from Various Row Spacing							
	40"	38"	36"	34"	32"	30"	22"	18"
3.7	3.0	3.2	3.4	3.6	3.8	4.0	5.5	6.7
4	3.3	3.4	3.6	3.8	4.1	4.4	5.9	7.3
4.5	3.7	3.9	4.1	4.3	4.6	4.9	6.7	8.2
6	4.9	5.2	5.4	5.8	6.1	6.5	8.9	10.9
6.5	5.3	5.6	5.9	6.2	6.6	7.1	9.7	11.8
7.5	6.1	6.4	6.8	7.2	7.7	8.2	11.1	13.6
8	6.5	6.9	7.3	7.7	8.2	8.7	11.9	14.5
9	7.4	7.7	8.2	8.6	9.2	9.8	13.4	16.3
12	9.8	10.3	10.9	11.5	12.3	13.1	17.8	21.8
15	12.3	12.9	13.9	14.4	15.3	16.3	22.3	27.2
16	13.1	13.8	14.5	15.4	16.3	17.4	23.8	29.0

USE INFORMATION

ALFALFA

Worker Restricted Entry Interval: Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours.

At Plant In-Furrow Treatment: Apply Lorsban 15G at planting as an in-furrow treatment for suppression of the target pests during establishment. 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 completely covered with soil.

Target Pests	Lorsban 15G (lb/acre)
Cutworms, Grubs, Wireworms	6.7

Specific Use Restrictions:

- Do not cut or graze treated alfalfa within 21 days after application.
- Maximum single application rate is 1 lb ai chlorpyrifos per acre.
- Do not make more than 1 application of Lorsban 15G per year.
- For use in Missouri only.

ASPARAGUS

Worker Restricted Entry Interval: Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours.

Postharvest Treatment: Apply Lorsban 15G as a postharvest ground application for suppression of the target pest. Apply as a band over the entire crown area when the asparagus beds have been split (i.e., remove most of the soil from above the asparagus crowns). Cover the area with soil the day of application. **Note:** Control may be reduced in soils with high organic matter content.

Target Pests	Lorsban 15G (lb/acre)
Symphylans (centipede)	10

Specific Use Restrictions:

- **Preharvest Interval:** Do not apply within 180 days of harvest.
- Do not apply more than 1.5 lbs a.i. chlorpyrifos per acre in a single application.
- Do not apply more than a total of 3 lb active ingredient of chlorpyrifos per acre between harvests.
- For use only in AZ, CA, ID, IL, IN, IA, KS, MI, MN, MO, NE, ND, OH, OR, SD, WA and WI.

CITRUS ORCHARD FLOORS

Worker Restricted Entry Interval: Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours.

Broadcast Treatment: To control foraging ants and suppress mounds, apply Lorsban 15G in combination with a rotary granular applicator, such as a fertilizer spreader, that will uniformly broadcast the granules over the orchard floor. Do not apply where weed growth or other obstructions would impede uniform coverage of the orchard floor. Foliar applications of Lorsban 4E may be made in addition to orchard floor treatments of Lorsban 15G (see Specific Use Restrictions).

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Target Pests	Lorsban 15G (lb/acre)
Ants; excluding fire ants, harvester ants, carpenter ants, and pharaoh ants	6.7

Specific Use Restrictions:

- **Preharvest Interval:** Do not apply last treatment within 28 days before harvest.
- Do not make more than 3 applications or more than 20 lb of Lorsban 15G (3.0 lb ai chlorpyrifos per acre) per year to the orchard floor.
- 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 acre in a single application.
- Do not allow meat or dairy animals to graze in treated areas.

CORN (FIELD CORN AND SWEET CORN, INCLUDING CORN GROWN FOR SEED)

Worker Restricted Entry Interval: Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours.

Lorsban 15G is compatible with ALS inhibiting herbicides when applied in accordance with label recommendations. Refer to the herbicide product labels for additional precautions and directions for use.

At Plant T-Band Treatment: Apply as a 4 to 5-inch T-band over the open seed furrow behind the planter shoe, and in front of the press wheel. In conventional and minimum-till corn, incorporate granules into the top 1/2 to 1 inch of soil using suitable equipment. Equivalent rates of Lorsban 15G per acre for various row spacings are given in Table 1.

At Plant In-Furrow Treatment: Apply Lorsban 15G 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 open seed furrow and are completely covered with soil.

Postplant Soil Treatment: To control corn rootworm larvae, apply Lorsban 15G at cultivation by directing the granules at the base of the plant on both sides of the row just ahead of the cultivation shovels and cover the granules with soil. To control European and Southwestern corn borer larvae, apply Lorsban 15G in a band over the row so that the granules are directed into the whorl. Consult your state extension service specialist or agricultural consultant for application timing and local threshold information. Scouting for insect damage is strongly encouraged prior to making a treatment decision.

Postplant Foliar Treatment: Use Lorsban 15G for control of European and southwestern corn borers by directing the granules into the corn whorls using high-clearance ground application equipment only. Apply at a rate of 5.0 lb per acre for low to moderate first generation infestations or at 6.5 lb per acre for severe first generation infestations and all second-generation infestations. Apply before larvae have entered corn stalks. Consult your state extension service specialist or agricultural consultant for application timing and local threshold information. Scouting for insect damage is strongly encouraged prior to making a treatment decision.

Pests	Banded/In furrow Applications (oz/1000 feet of row)		
	At Plant Treatments		Postplant Treatment
Controlled	T-Band	In-Furrow	
Northern and Western corn rootworm larvae	8	8	8
Southern corn rootworm larvae	8	8	8
Cutworms (1)	8	8	-
Wireworms (2)	8	8	-
Billbugs	8	-	-
Seed corn maggots	8	8	-
Grubs	8	8	-
Lesser cornstalk borer	8	-	-
Seed corn beetle	8	8	-
Symphylans	8	-	-
Armyworms	-	-	6 - 8
European and Southwestern corn borer (3)			
1st Generation	-	-	3.5 - 8
2nd Generation	-	-	6 - 8
Chinch bug (1)	8	8	-

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

Pest-Specific Use Directions:

- Cutworms and chinch bugs:** The 8 oz rate per 1000 ft or row provides suppression only for in-furrow treatments.
- Wireworms:** For best control, apply as an in-furrow treatment. Consider using an insecticidal seed treatment with T-band applications.
- European corn borer:** When using postplant banded applications use rates of 3.5 to 4 oz of Lorsban 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 Lorsban 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:

- **Preharvest Interval:** Do not apply within 21 days before harvest of grain or ears.
- Do not make more than 1 at-plant application and 1 foliar application of Lorsban 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 Lorsban 15G is allowed under replant situations due to loss of crop during establishment only when initially applied at the rate of 1 lb ai.
- Do not apply more than a total of 3 lb ai chlorpyrifos per acre per season.
- Do not make a second application of Lorsban 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 Lorsban 15G per 1000 ft of row (1.3 lb ai chlorpyrifos per acre).
- Maximum single application rate for postplant application is 6.51 lb of Lorsban 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 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.

GRAIN SORGHUM/MILO

Worker Restricted Entry Interval: Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours.

At Plant T-Band Treatments: Apply as a T-band in-over the open seed furrow in front of the press wheel and incorporate into the top 1/2 to 1 inch of soil using suitable equipment. Equivalent rates of Lorsban 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 or a higher rate within the listed rate range for longer residual activity. It is absolutely necessary to incorporate the granules into the soil.

Pests Controlled	At Plant T-Band Applications (oz/1000 feet of row)
Lesser cornstalk borer	4 - 8
Chinch bugs (1) Corn rootworm Cutworms	8

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

Pest-Specific Use Directions:

1. **Chinch bugs:** Suppression only.

Specific Use Restrictions:

- Do not make more than 1 application of Lorsban 15G per season.
- The maximum single application rate is 8 oz per 1000 feet of row (1.5 lb active chlorpyrifos per acre).
- Do not make a foliar application of Lorsban 4E or other product containing chlorpyrifos within 10 days of an at-plant application of Lorsban 15G.

ONION (DRY BULB)

Worker Restricted Entry Interval: Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours.

At Plant In-Furrow Treatment: Apply as an at plant in-furrow treatment so that granules are covered with soil.

Target Pest	Lorsban 15G (oz/1000 ft of row)
Onion maggot (1)	3.7

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

Pest-Specific Use Directions:

1. **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 Lorsban 15G at the rate of 3.7 oz per 1000 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.

Specific Use Restrictions:

- Do not apply within 60 days of harvest.

- Do not apply more than 1.0 lb active chlorpyrifos per crop season.
- The maximum single application rate is 0.56 oz active chlorpyrifos per 1000 feet of row.
- Do not make more than 1 application per year of Lorsban 15G or other product containing chlorpyrifos.

PEANUT

Worker Restricted Entry Interval: Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours.

At Plant Preventive Treatment: Apply Lorsban 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 into the soil with tines drag chains, or other suitable equipment. If the 7.5 oz rate per 1000 feet of row is used at planting time, then another application of 7.5 oz per 1000 feet of row may be needed postplant to extend control.

Postplant Preventive Treatment: Apply Lorsban 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 Lorsban 15G may be made (see Specific Use Restrictions).

Band Rescue Treatment: Apply Lorsban 15G in a 10 to 18 inch band over the fruiting zone.

Postplant Rescue Treatment: Apply Lorsban 15G in a 10 to 18 inch band over the fruiting zone to control Lesser cornstalk borer.

Pests Controlled	Banded Applications (oz/1000 feet of row)	
	At Plant Treatment	Postplant Treatment
Preventive treatments: Cutworms Lesser cornstalk borer Southern corn rootworm larvae Wireworms White mold (Southern blight) (1)	7.5 - 15	7.5 - 15
Potato leafhopper	-	15
Rescue treatments: Lesser cornstalk borer (2)	-	7.5 - 15

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

Pest-Specific Use Directions:

1. **Suppression of white mold:** Best suppression of white mold (southern blight) is obtained by applying the maximum rate of 15 oz per 1000 ft of row. 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.
2. **Lesser cornstalk borer:** Use Lorsban 15G for the control of lesser cornstalk borer as a rescue treatment when the insect first appears, usually just prior to or at pegging.

Specific Use Restrictions:

- **Preharvest Interval:** Do not apply within 21 days before harvest of peanut.
- Do not apply more than 15 oz of Lorsban 15G per 1000 ft of row per crop season or apply more than 4 lb active chlorpyrifos per acre per season.
- Do not make more that 2 applications per year.

- Do not make a second application of Lorsban 15G or other product containing chlorpyrifos within 10 days of the first application.
- Do not feed peanut forage or hay to meat or dairy animals.
- The combined total of preplant and postplant applications of Lorsban 4E and Lorsban 15G or other product containing chlorpyrifos must not exceed 4 lb of active ingredient per acre per crop season.
- Aerial application to peanuts is prohibited.

SOYBEAN

Worker Restricted Entry Interval: Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours.

At Plant and Postplant Treatments: Apply as a T-band in a 4 to 10 inch band over the open seed furrow in front of the press wheel and incorporate into the top 1/2 to 1-inch of soil using suitable equipment. For postplant treatment, apply the granules in a 4 to 10 inch band over the row and incorporate into the top 1/2 to 1 inch of soil using a suitable cultivator. Apply Lorsban 15G with equipment that will provide uniform distribution of the granules over the row. Equivalent rates of Lorsban 15G per acre for various row spacing are given in Table 1.

Pests Controlled	Banded Applications (oz/1000 feet of row)	
	At Plant T-Band	Postplant Treatment
Cutworms Lesser cornstalk borer	8	8

Specific Use Precautions:

- Do not apply as an in-furrow treatment to soybeans.

Specific Use Restrictions:

- **Preharvest Interval:** Do not apply within 28 days before harvest of soybeans.
- Do not make more than 1 application of Lorsban 15G per season or apply more than 2 applications of other products containing chlorpyrifos.
- The maximum single application rate is 1.2 oz active chlorpyrifos per 1000 feet of row.
- Do not make a foliar application of Lorsban 4E or other product containing chlorpyrifos within 10 days of an at-plant application of Lorsban 15G.
- 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.

SUGARBEET

Worker Restricted Entry Interval: Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours.

At Plant T-Band Treatment: Apply Lorsban 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 Lorsban 15G at the rate of 4.5 to 9 oz per 1000 feet of row (equivalent to 6.75 to 13.5 lb per acre based on 22-inch row spacing). Incorporate Lorsban 15G into the top 1/2 to 1-inch of soil using suitable equipment.

Postplant Band Treatment: Apply Lorsban 15G in a band 3 to 5 inches wide over the beet row (up to 2 to 4 true leaf stage of plant growth). Apply Lorsban 15G at the rate of 6.5 to 9 oz per 1000 feet of row (equivalent to

10 to 13.5 lb per acre based on 22-inch row spacing). Incorporate Lorsban 15G into the top 1/2 to 1 inch of soil using a suitable incorporation device.

Pests Controlled	Banded Applications (oz/1000 feet of row)	
	At Plant T-Band	Postplant Treatment
Sugar beet root maggot (1)	4.5 - 9.0	6.5 - 9.0
Cutworms	6.6 - 9.0	-
Wireworms (suppression)	6.5 - 9.0	-

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

Pest-Specific Use Directions:

1. When **root maggot** populations are expected to be low, apply Lorsban 15G at a rate of 4.5 oz per 1000 feet of row (equivalent to 6.75 lb per acre based on 22-inch row spacing). If initial adult fly activity indicates higher than anticipated populations, apply Lorsban-4E at or near the time of peak adult emergence to augment control.

Specific Use Precautions: Granular insecticides, including Lorsban 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 preplant incorporated may interact with insecticides and enhance this stress.

Specific Use Restrictions:

- **Preharvest Interval:** Do not apply within 30 days before harvest of sugarbeets.
- Do not make more than 1 application of Lorsban 15G per season or apply more than 2 lb active chlorpyrifos per acre per season.
- Do not apply more than a total of 3 lb active chlorpyrifos per acre per year, or make more than 3 applications of products containing chlorpyrifos per season.
- Do not make a foliar application of Lorsban-4E or other product containing chlorpyrifos within 10 days of an at-plant application of Lorsban 15G.
- The maximum single application rate is 1.35 oz active chlorpyrifos per 1000 feet of row or 2 lb active chlorpyrifos per acre based on a 22-inch row spacing.

SUNFLOWER

Worker Restricted Entry Interval: Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours.

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

Target Pests	Lorsban 15G (oz/1000 ft of row)
Cutworms	8

Specific Use Restrictions:

- **Preharvest Interval:** Do not apply within 42 days before harvest of sunflowers.
- Do not make more than 3 applications of a product containing chlorpyrifos per season with a maximum of 1 granular application.

- Do not make a foliar application of Lorsban 4E or other product containing chlorpyrifos within 10 days of an at-plant application of Lorsban 15G.
- The maximum single application rate is 1.25 oz active per 1000 feet of row.
- 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.

SWEET POTATO

Worker Restricted Entry Interval: Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours.

Preplant Broadcast Treatment: Apply Lorsban 15G in combination with a rotary applicator, such as a fertilizer spreader, to evenly broadcast the granules over the soil surface. Immediately following application, incorporate the granules uniformly into the soil to a depth of 4 to 6 inches using a rotary hoe or other incorporation device. 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 Lorsban 15G will protect against feeding damage). Lorsban 15G will not control false wireworm or whitefringed beetle and other grubs that attack sweet potatoes.

Target Pests	Lorsban 15G (lb/acre)
<i>Conderus</i> (wireworm)	13.5
<i>Systema</i> (flea beetle)	
Sweet potato flea beetle	

Specific Use Restrictions:

- **Preharvest Interval:** Do not harvest within 125 days of treatment.
- Do not make more than 1 application of Lorsban 15G or other product containing chlorpyrifos per season.
- The maximum single application rate is 2 lb active chlorpyrifos per acre.

TOBACCO

Worker Restricted Entry Interval: Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours.

Preplant Broadcast Treatment: One week before transplanting, apply Lorsban 15G in combination with a rotary granular applicator, such as a fertilizer spreader, to evenly distribute the granules over the soil surface. Immediately following application, incorporate the granules uniformly into the soil to a depth of 2 to 4 inches using a rotary hoe or other incorporation device. The application of Lorsban 15G will also suppress movement of imported fire ant into a treated field.

Target Pests	Lorsban 15G (lb/acre)
Cutworms	13.5
Flea beetles	
Mole crickets	
Root maggots	
Wireworms	

Specific Use Restrictions:

- **Preharvest Interval:** Do not harvest within 7 days of treatment.
- Do not make more than 1 application of Lorsban 15G or other product containing chlorpyrifos per season.
- The maximum single application rate is 2 lb active chlorpyrifos per acre.

BRASSICA LEAFY VEGETABLES¹, RUTABAGA, TURNIP

Worker Restricted Entry Interval: Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours (3 days for cauliflower).

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

Target Pests	Lorsban 15G (oz/1000 ft of row)
Root maggots	4.6 - 9.2

Specific Use Restrictions:

- **Preharvest Interval:** Do not harvest within 7 days of treatment for rutabaga, 21 days of treatment for cauliflower, and 30 days of treatment for broccoli, Brussels sprout, cabbage, Chinese cabbage, collard, kale, kohlrabi, turnip and other listed Brassica leafy vegetables.
- Do not apply more than 7.5 lb of Lorsban 15G per acre to crops planted in 40-inch rows or more than 15 lb of Lorsban 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 lb of Lorsban 15G per acre.
- Do not make more than 1 application of Lorsban 15G per season.
- Do not make a foliar application of Lorsban-4E or other product containing chlorpyrifos within 10 days of an at-plant application of Lorsban 15G.
- The maximum single application rate is 1.4 oz active chlorpyrifos per 1000 feet of row.
- Do not use rutabaga tops for food or feed purposes.

¹ Broccoli, Chinese Broccoli (gai lan), Broccoli Raab (rapini), Brussels Sprouts, Cabbage, Chinese Cabbage (bok choy), Chinese Cabbage (napa), Chinese Mustard Cabbage (gai choy), Cauliflower, Cavalo Broccolo, Collards, Kale, Kohlrabi, Mizuna, Mustard Greens, Mustard Spinach, Rape Greens.

RADISH

Worker Restricted Entry Interval: Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours.

At Plant In-Furrow Treatment: Apply the granules in the seed furrow at planting time so that the granules are covered with soil.

Target Pests	Lorsban 15G (oz/1000 ft of row)
Root maggots	3.3

Specific Use Restrictions:

- **Preharvest Interval:** Do not harvest within 7 days.
- The maximum single application rate is 0.5 oz active chlorpyrifos per 1000 feet of row (2.76 lb active chlorpyrifos per acre).
- Do not apply more than 18.3 lb of Lorsban 15G per acre or make more than 1 application per season.

STORAGE AND DISPOSAL

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

Pesticide Storage: Store in original container in secured dry storage area. Prevent cross-contamination with other pesticides and fertilizers.

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

Container Return: DO NOT DISCARD THE CONTAINER. Do not attempt to open or tamper with the container. Completely empty container into application equipment. All SMARTBOX containers must be returned per instructions provided or by calling 1-888-SMARTBOX. Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose.

LIMITED WARRANTY AND DISCLAIMER

The manufacturer warrants (a) that this product conforms to the chemical description on the label; (b) that this product is reasonably fit for the purposes set forth in the directions for use, subject to the inherent risks referred to herein, when it is used in accordance with such directions; and (c) that the directions, warnings, and other statements on this label are based upon responsible experts' evaluations of reasonable tests of effectiveness, of toxicity to laboratory animals and to plants and residues on food crops, and upon reports of field experience. Tests have not been made on all varieties of food crops and plants, or in all states or under all conditions.

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