

SEP 27 1985

Mrs. Judy Page
Dow Chemical U.S.A.
P.O. Box 1706
Midland, MI 48640

Dear Mrs. Page:

Subject: Lorsban 15G
EPA Registration No. 464-523
Your Application Dated July 25, 1985

The amendment referred to above, submitted in connection with registration under FIFRA sec. 3(c)(7)(A) is acceptable provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data.
2. Submit five (5) copies of your final printed labeling before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Sincerely yours,

Jay S. Ellenberger
Product Manager (12)
Insecticide-Rodenticide Branch
Registration Division (TS-767)

Enclosure

JOB:39418:RD-74:ELLENBERGER:156625:KENCO:9/25/85:Del.10/4/85:dcg

CONCURRENCES							
SYMBOL ▶							
SURNAME ▶							
DATE ▶							

Specimen Label

Lorsban* 15G Granular Insecticide

For Control of Various Insects Infesting Certain Field and Vegetable Crops

Active Ingredient(s):

Chlorpyrifos [O,O-diethyl O-(3,5,6-trichloro-2-pyridyl) phosphorothioate]	15.0%
Inert Ingredients	85.0%

E.P.A. Registration No. 464-523
E.P.A. Est. 464-MI-1

KEEP OUT OF REACH OF CHILDREN

CAUTION

AVISO:

PRECAUCION AL USUARIO:

Si usted no lee inglés, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

HARMFUL IF SWALLOWED • CAUSES EYE IRRITATION

Avoid Contact With Skin, Eyes, Or Clothing • Wash Thoroughly With Soap And Water After Handling • Remove Contaminated Clothing And Wash Before Reuse

STATEMENTS OF PRACTICAL TREATMENT IF

Swallowed: Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person. **If In Eyes:** Flush with plenty of water for 5 minutes. Get medical attention if irritation persists. **If On Skin:** Wash with plenty of soap and water. Get medical attention if irritation persists.

NOTE TO PHYSICIAN: Chlorpyrifos is a cholinesterase inhibitor. Treat symptomatically. Atropine only by injection is an antidote.

Environmental Hazards

Do not apply directly to waters or wetlands. • This pesticide is toxic to birds and wildlife and extremely toxic to fish and aquatic organisms. • Do not apply when weather conditions favor drift from treated areas. • Drift and runoff from treated areas may be hazardous to fish and aquatic organisms in adjacent aquatic sites. • Cover or incorporate granules that are spilled during loading or are visible on soil surface in turn areas.

NOTICE: Read the entire label. Use only according to label directions. Before buying or using this product, read "WARRANTY LIMITATIONS AND DISCLAIMER" elsewhere on this label. If terms are not acceptable, return unopened package at once to seller for full refund of purchase price paid. Otherwise, use by the buyer or any other user constitutes acceptance of the terms under "WARRANTY LIMITATIONS AND DISCLAIMER."

In case of an emergency endangering life or property involving this product, call collect **517-636-4400**

AGRICULTURAL CHEMICAL

Do Not Ship or Store with Foods, Feeds, Drugs or Clothing

ACCEPTED
with COMMENTS
In EPA Letter Dated

SEP 27 1985

Under the provisions of the Insecticide, Fungicide, and Rodenticide Act and the Federal Insecticide, Fungicide, and Rodenticide Act, No.

464-523

Lorsban* 15G

STORAGE AND DISPOSAL

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

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

Container Disposal: Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

LORSBAN 15G INSECTICIDE — RATE PER 1000 FT OF ROW

Amount of LORSBAN 15G Per 1,000 Feet of Row	Pounds of LORSBAN 15G Required Per Acre from Various Row Spacing							
	40"	36"	30"	24"	20"	18"	16"	14"
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
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	17.5
9 ounces	7.4	7.7	8.2	8.6	9.2	9.8	13.4	16.3
12 ounces	9.9	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

GENERAL INSTRUCTIONS FOR EQUIPMENT CALIBRATION

Caution: The following chart lists suggested initial gauge settings for application of LORSBAN 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.

LORSBAN 15G INSECTICIDE — CALIBRATION

Planter Type	Speed, mph									
	4		5		6		7		8	
	Application Rate, oz. Per 1000 row ft.									
	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 7000 Maxi-Emerge (Odd Nos. on Gate)	14	22	16	24	18	26	19	28	21	30
John Deere ¹ 7000 Maxi-Emerge (Even Nos. on Gate)	17	30	20	33	24	35	26	36	28	38
John Deere ² 71 Flexi-Planter	1	2	2	2	2	2	2	2	2	3
John Deere ² 71 Flexi-Planter	30	17	5	22	9	27	13	31	16	1
Allis Chalmers ³ 70 series	8	13	8	13	8	13	8	13	8	13
Allis Chalmers ⁴ 78 & 79 Series	1	3	2	3	2	4	2	5	3	6
Allis Chalmers ⁴ 78 & 79 Series	9.0	3.0	3.3	9.5	6.0	3.0	9.0	4.0	2.5	0
Noble ⁵ (New)	11	19	14	22	16	25	17	26	19	31
Noble ⁵ Planter	11	19	14	22	16	25	17	26	19	31
White Planter	11	19	14	22	16	25	17	26	19	31
International Harvester ⁶	1	3	2	3	2	4	2	5	3	6
International Harvester ⁶	9.0	3.0	3.3	9.5	6.0	3.0	9.0	4.0	2.5	0
Buffalo All-Flex ⁷ (Fischer Mfg)	4%	10	4%	10	4%	10	—	—	—	—

¹ Gauge setting
² Gauge setting with range 1 & 2 — number is range
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 LIMITATIONS AND DISCLAIMER

The Dow Chemical Company warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions therein under normal conditions of use. THIS IS THE ONLY WARRANTY MADE ON THIS PRODUCT. NO OTHER EXPRESS AND NO IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE IS MADE OUTSIDE OF THIS LABEL. Therefore, neither this warranty nor any other warranty of merchantability or fitness for a particular purpose, express or implied, extends to the use of this product contrary to label instructions (including conditions noted on the label, such as unfavorable temperatures, soil conditions, etc.), under abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes, etc.) or under conditions not reasonably foreseeable to or beyond the control of seller.

When buyer or user suffers losses or damages resulting from the use or handling of this product (including claims based on contract, negligence, strict liability, or other legal theories), buyer or user must promptly notify in writing The Dow Chemical Company of any claims to be eligible to receive either remedy given below. The EXCLUSIVE REMEDY OF THE BUYER OR USER and the LIMIT OF LIABILITY of The Dow Chemical Company or any other seller will be one of the following, at the election of The Dow Chemical Company:

- (1) Refund of purchase price paid by buyer or user for product bought, or
- (2) Replacement of amount of product used.

The seller will not be liable for consequential or incidental damages or losses.

The terms of this WARRANTY LIMITATIONS AND DISCLAIMER cannot be varied by any written or verbal statements or agreements. Any employee or sales agent of the seller is not authorized to vary or exceed the terms of this Warranty Limitations And Disclaimer in any manner.

U.S. Patent No. 4,380,537

* Trademark of THE DOW CHEMICAL COMPANY
45405-L2 D585

RO CHLORPYRIFOS MIXTURE, NA 2783



THE DOW CHEMICAL COMPANY
Midland, Michigan 48674 U.S.A.

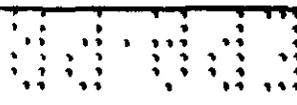
SPECIMEN LABEL 86-1375 DATE CODE D585
REPLACES 86-1375 DATE CODE C385
DISCARD PREVIOUS SPECIMEN LABELS
REVISIONS INCLUDE:

- (1) REVISED USE DIRECTIONS FOR CORN UNDER AT-PLANT BAND TREATMENT AND AT-PLANT T-BAND TREATMENT
- (2) REVISED NOTICE ON FRONT PANEL DEALING WITH WARRANTY AND ALSO WARRANTY AND LIMITATIONS DISCLAIMER

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Soybeans	Lesser Cornstalk Borer, Cutworms	8 oz	8 oz	—	8 oz	—	Use LORSBAN 15G insecticide to control larvae of the lesser cornstalk borer and cutworms application at planting time or postemergence as a band (row) treatment at the rate of 8 ounces per 1000 linear feet of row. In the Southeast apply 4 to 8 ounces per 1000 linear feet of row as an in-row plant treatment. Equivalent rates of LORSBAN 15G per acre for various row spacing are given in the accompanying table. When applied at planting time incorporate the granules into the top 1 inch of soil by placing in a 4 to 10 inch band over the row behind the planter shoe and ahead of the press wheel. A drag chain can also be used for incorporation. For postemergence 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 LORSBAN 15G with equipment that will provide uniform distribution of the granules. Do not apply as an in-furrow treatment.
Sugarbeets	Sugarbeet Root Maggot Cutworms	6.5 to 9.0 oz 6.5 to 9.0 oz	6.5 to 9.0 oz 6.5 to 9.0 oz	4.5 to 9.0 oz	6.5 to 9.0 oz	—	<p>At Plant Band Treatment: To control cutworms and sugar beet root maggot larvae at planting time place LORSBAN 15G in a 5-inch wide band behind the planter shoe, over the drill row, and in front of the press wheel. Apply granules at the rate of 6.5 to 9 ounces per 1000 feet of row (equivalent to 7 to 13.5 pounds per acre based on a 22-inch row spacing). Incorporate granules into the top 1 inch of soil using suitable equipment.</p> <p>At Plant In-Furrow Treatment: To control only sugar beet root maggot larvae, LORSBAN 15G should be placed in-furrow at planting time. Apply at the rate of 4.5 to 9 ounces per 1000 feet of row (equivalent to 5 to 10 pounds per acre based on a 22-inch row spacing).</p> <p>Postemergence Band Treatment: For postemergence control of sugar beet root maggot larvae place LORSBAN 15G in a 5-inch wide band over the beets (up to 2 to 4 true leaf stage of the plant). Apply granules at the rate of 6.5 to 9 ounces per 1000 feet of row (equivalent to 7 to 13.5 pounds per acre based on a 22-inch row spacing). Incorporate the granules into the top 1/2 to 1 inch of soil using a suitable cultivator.</p>
Sunflowers	Cutworms	8 oz	—	—	—	—	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.
Sweet Potatoes	Wireworms (<i>Conoderus</i>), Flea Beetles (<i>Systema</i>), and Sweetpotato Beetle	—	—	—	—	13.5 lb	Use equipment that will evenly distribute the granules over the treated area. After application incorporate the granules into the soil to a depth of 4 to 6 inches using a rotary hoe, disc cultivator, or other suitable incorporation equipment. Plant the crop in the usual manner as soon as possible after treatment.
Tobacco	Cutworms, Flea Beetle Larvae, Root Maggots, and Wireworms	—	—	—	—	13.5 to 20 lb	Apply the granules 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.
Vegetables	Broccoli, Brussels Sprouts, Cabbage, Cauliflower, Chinese Cabbage, Rutabagas, Turnips	—	4.6 to 9.2 oz	—	—	—	<p>Collards, Kale, Kohlrabi,</p> <p>Place LORSBAN 15G across the seed row in a 4-inch wide band behind the planter shoe and in front of the press wheel to achieve shallow incorporation. This application requires a spreader-splitter on the end of the drop tube from the granule applicator.</p>
Radishes	Root Maggots	—	—	3.3 oz	—	—	Apply the granules in the seed furrow with the seed at planting time.



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DIRECTIONS FOR USE

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

RQ CHLORPYRIFOS MIXTURE, NA 2783

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Crop	Pest	Amount of LORSBAN 15G per 1,000 feet of row				Amount of LORSBAN 15G per acre for Preplant Broadcast Treatment	Use Directions	Restrictions		
		Planting Band	Treatment	In-Furrow	Postplant Treatment					
Corn: Field, Popcorn, Sweet Corn	Northwestern, Southern and Western Corn Rootworm Larvae	8 oz	8 oz	—	8 oz	—	<p>At Plant Band Treatment: In conventional, minimum and no-till corn, place the granules in a 6 to 7 inch wide band over the row behind the planter shoe, in front of the press wheel, and incorporate into the top one inch of soil using tines or chains or other suitable equipment. For cutworm control under very dry soil conditions, best results will be obtained through proper incorporation. In soils over 10% organic matter, use the highest rate given.</p> <p>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, symphylians, wireworm, seed corn beetle, seed corn maggot and grubs, apply as a T-band over an open seed furrow. Suppression of wireworms can be obtained with a rate of 8 ounces per 1,000 linear feet of row when applied as a T-band over the open seed furrow.</p> <p>At Plant In-Furrow Treatment: Apply LORSBAN 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 open seed furrow and are covered with soil. Equivalent rates of LORSBAN 15G per acre for various row spacings are given in the accompanying table.</p> <p>Postplant Treatment: Apply LORSBAN 15G insecticide at cultivation time to control corn rootworm larvae. Place the granules over the row and cultivate into the soil or sidedress both sides of the row and cultivate into the soil. For best rootworm control, place the granules at the base of the plants on both sides of the row just ahead of cultivation shovels and cover with soil. Consult your State Agricultural Experiment Station or extension service specialists for proper time to treat in your area. Equivalent rates of LORSBAN 15G per acre for various row spacings are given in the accompanying table.</p> <p>Consult your State Agricultural Experiment Station or extension service specialist for further information concerning soil insect control in your area. Equivalent rates of LORSBAN 15G per acre for various row spacings are given in the accompanying table.</p> <p>Postplant Broadcast Treatment: Use LORSBAN 15G for control of European and southwestern corn borers by uniformly broadcasting the granules over the corn plants by aerial application or applying the granules into the corn whorls by ground application. Consult your State Agricultural Experiment Station or extension service specialist for local threshold information. Scouting for insect damage is strongly encouraged.</p> <p>Preplant Broadcast Treatment: Use equipment that will evenly distribute the granules over the treated area. Incorporate the granules into the soil using a 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.</p>	<p>For soil insect control, do not exceed the equivalent of 16 ounces of LORSBAN 15G per 1,000 feet of row or 13.5 pounds of LORSBAN 15G per acre per crop season. For foliar insect control, do not exceed the equivalent of 16 ounces of LORSBAN 15G per 1,000 feet of row or 13 pounds of LORSBAN 15G per acre per crop season. Do not apply within 35 days before harvest of grain. Do not allow livestock to graze in treated areas nor harvest treated corn silage as feed for meat or dairy animals within 14 days after last treatment. Do not feed treated corn fodder to meat or dairy animals within 35 days after last treatment.</p>		
	Cutworms	8 oz	8 oz	8 to 16 oz	—	6.75 to 13.5 lb				
	Wireworms	16 oz	16 oz	16 oz	—	13.5 lb				
	Billbugs	8 to 16 oz	8 to 16 oz	—	—	13.5 lb				
	Seed Corn Maggots	—	8 oz	8 oz	—	—				
	Grubs	—	16 oz	8 to 16 oz	—	13.5 lb				
	Lesser Cornstalk Borer	8 to 16 oz	8 to 16 oz	—	—	—				
	Seed Corn Beetle	—	8 to 16 oz	8 to 16 oz	—	—				
	Flea Beetle Larvae	—	—	—	—	13.5 lb				
	Symphylians	8 to 12 oz	8 to 12 oz	—	—	—				
	European & Southwestern Corn Borer ¹	—	—	—	6 to 8 oz	—				
	Grain Sorghum	Lesser Cornstalk Borer	4 to 12 oz	4 to 12 oz	—	—			<p>Apply in a 6 to 8 inch band over the row and lightly incorporate by using the press wheel or drag chain. Equivalent rates of LORSBAN 15G per acre for various row spacings are given in the accompanying table. 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.</p>	<p>Do not make more than one application per season.</p>
		Corn Rootworm and Cutworms	8 oz	8 oz	—	—				
Onions (Dry Bulb)	Onion Maggot	—	—	3.7 oz	—	<p>Apply the granules at the rate of 3.7 ounces per 1,000 feet of row at 18-inch row spacing by placing in the furrow.</p>	<p>Do not make more than one application per year.</p>			
Peanuts	Cutworms, Lesser Cornstalk Borer, Southern Corn Rootworm Larvae, Southern Blight (White Mold)	—	—	—	15 oz	—	<p>Preventative Treatment: Use LORSBAN 15G for control of cutworms, lesser cornstalk borer, and southern corn rootworm larvae and to inhibit the growth and development of white mold (southern blight) disease caused by the fungus <i>Sclerotium rolfsii</i>. Apply the insecticide just prior to or during pegging in a 10 to 18 inch wide band over the fruiting zone. Irrigation or rain following application will enhance activity. Under conditions of heavy white mold pressure, a suitable fungicide may also be required and should be applied separately.</p> <p>Rescue Treatment: Use LORSBAN 15G for the control of lesser cornstalk borer when the insect first appears usually just prior to or at pegging. Apply LORSBAN 15G in a 10 to 18 inch band over the fruiting zone. Equivalent rates of LORSBAN 15G per acre for various row spacings are given in the accompanying table.</p>	<p>Do not make more than one application per season. Do not harvest within 21 days after treatment. Do not feed peanut forage or hay to meat or dairy animals.</p>		
		Lesser Cornstalk Borer	—	—	—	7.5 to 15 oz				

Cutworms, Lesser Cornstalk Borer, Southern Corn Rootworm Larvae

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