

VEGETABLE CROPS

Crop	Insect	Dosage		Number acres treated with Giffen	Further Use Instructions	Days to Harvest
		Lb. ai/acre	Fl oz/acre			
Broccoli Cabbage Cauliflower	Diamond Back Moth	0.05-0.1	2.23-5.13	45-24	Repeat as necessary to maintain control. Do not feed livestock or treated plant parts. Do not exceed 1.6 lbs. ai per acre per season.	3
	Imported Cabbage Worm Cabbage Looper Beet Armyworm Alfalfa Moth Flea Beetle Grasshopper Cutworm	0.1-0.2	5.13-12.23	24-12		
Cucumber Melons (Cantaloupe Honeydew Melons, Watermelon, Muskmelon), Pumpkin, Squash (Summer Winters)	Phthorid Rindworms, Leafhoppers, Flea Earworm Cabbage Wiper Squash Bug Black Cutworm (feeding stage)	0.1-0.2	5.13-12.23	24-12	Repeat as necessary to maintain control. Do not exceed 1.0 lb. ai. per acre per season. Do not apply on cucurbit squash as injury may occur.	3
Dry Beans Dry Peas	Mexican Bean Beetle	0.5-1.1	2.23-5.13	45-24	Repeat as necessary to maintain control. Do not exceed 1.5 lb. ai. per acre per season. Do not feed to grazing livestock or feed to swine.	21
	Corn Earworm Cucumber Beet Cabbage Root Peanut Cabbage Root Western Flowering Weevil	1-2	5.13-12.23	4-12		

VEGETABLE CROPS cont.

Crop	Insect	Dosage		Number acres treated with Gallon	Further Use Instructions	Days to Harvest
		(lb) of acre	(fl oz) of acre			
Potato	Potato Fly	0.05-0.1	2-2 1/2	43-24	Repeat as necessary to maintain control. Do not graze livestock on treated areas. Do not exceed 1.4 lbs. a.i. per acre per season.	7
	Potato Rootworm	0.1-0.2	5-10	24-10		
	Colorado Potato Beetle	0.05-0.1	2-2 1/2	43-24		
	Western Colorado Potato Beetle	0.1-0.2	5-10	24-10		
Sweet Corn	European Corn Borer	0.1-0.2	5-10	24-10	Repeat as necessary to maintain control but do not exceed 2.0 lbs. a.i. per acre per season.	1
	European Corn Borer	0.2	10-20	17		
Tomato	Tomato Hornworm	0.05-0.1	2-2 1/2	43-24	Repeat as necessary to maintain control. Do not feed or graze livestock on treated vines. Do not exceed 2.0 lbs. a.i. per acre per season.	1
	Tomato Pinworm	0.1-0.2	5-10	24-10		
	Colorado Potato Beetle	0.1-0.2	5-10	24-10		
	Vegetable Leafminer	0.2	10-20	17	Note: Some leaching or spotting may occur on the foliage of young plants. This does not affect yield or fruit quality.	

**SPECIALTY USES**

Crop	Insect	Dosage		Number acres treated with Gallon	Further Use Instructions	Days to Harvest
		Lb al/ acre	Fl oz/ acre			
Non-Crop Land (including public land such as forests, parks, or recreational areas)	Grasshoppers, Saltmarsh Caterpillar	0.05-0.1	2.0-3.0-4.0	15-14	Spray non-crop land adjacent to field areas to control migrating insects (Grasshoppers, Armyworms) which are a threat to crops. Repeat as necessary to maintain control but do not exceed 2 lbs. active ingredient per acre per year. Do not feed treated crop to livestock. Do not spray ditch banks or areas adjacent to water.	
	Armyworms, Army Cutworms	0.1-0.2	5.0-10-20	24-12		

Crop	Insect	Dosage	Further Use Instructions
Southern Pine Seed Orchards	Coneworms, Seedbugs	<p>11 fl oz 100 gal's water in 0.25% dilution by weight for high volume sprayers</p> <p>3.5 pts 100 gal's water in 0.25% dilution by weight for low volume sprayers</p> <p>0.75 lbs per acre application in less than 10 gal's of water for low volume applications</p>	<p>Apply first application within 1 week of female flower closure or peak pollen flight for Webbing Coneworm control. For other Coneworms and Seedbugs, apply first application within 30 days following female flower closure. Repeat applications at intervals of 4 weeks but do not exceed 2.4 lbs/acre/yr.</p> <p>Apply approximately 5-10 gal's of the 0.25% dilution per tree with high volume sprayers. With low volume sprayers apply 100 gallons of the 0.25% dilution per acre.</p> <p>Control graze or harvest cover crop. Avoid contact with open water.</p>

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DEC 17 1982

RAVEN  
305 / 82288  
18 / 34

Dr. E. L. Hobson  
Shell Oil Company  
Suite 200  
1025 Connecticut Avenue, NW  
Washington, DC 20036

Dear Dr. Hobson:

Subject: PYDRIN<sup>®</sup> Insecticide 2.4 Emulsible  
Concentrate  
EPA Registration No. 201-401  
Your Application of October 27, 1982

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. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling:

- a. The side panel signal word DANGER should be changed to WARNING.
- b. The front and side panel precautionary statements; Corrosive. Causes eye damage should be deleted and the following phrase should be inserted; Causes substantial but temporary eye injury.

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

Sincerely yours,

*Fge*

Franklin D. R. Gee  
Product Manager (17)  
Insecticide-Rodenticide Branch  
Registration Division (TS-767)

Enclosure

TS-767:Gee:DCR-29499:WANG-0688A:rfr:Raven:479-2013:12/13/82

**RESTRICTED USE  
PESTICIDE**

For retail sale to and use by Certified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator's certification.



**Pydrin<sup>®</sup>**  
Insecticide

2.4 Emulsible Concentrate

EPA Reg. No. 201-401  
EPA EST No. 5905-AR-1

**ACCEPTED  
with COMMENTS  
in EPA Letter Dated:**

**DEC 17 1982**

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

201-401

**KEEP OUT OF REACH OF CHILDREN  
WARNING**

Caution: May be fatal if swallowed, absorbed through skin, or inhaled. May cause damage to eyes, nose, and throat.  
**STATEMENT OF PRACTICAL TREATMENT**  
IF SWALLOWED, do not induce vomiting. Call a physician. Do not give anything to be given and by a physician. Do not induce vomiting. Do not give anything to be given. Do not induce vomiting. Do not give anything to be given.  
IF ON THE SKIN, wash with plenty of soap and water. Get medical attention if irritation persists.  
IF IN EYES, flush with plenty of water. Call a physician.

SHELL CHEMICAL COMPANY  
A DIVISION OF SHELL OIL COMPANY  
ONE SHELL PLAZA, HOUSTON, TEXAS 77001  
ACL 2319A 3-82

RESTRICTED USE PESTICIDE

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This Product Contains 2.4 lbs. of PYDRIN Per Gallon

<b>ACTIVE INGREDIENT</b>	<b>BY WEIGHT</b>
Cyano (3-phenoxyphenyl) methyl- 4-chloro alpha-(1-methylethyl) benzeneacetate	30%
<b>INERT INGREDIENTS</b>	70%
<b>TOTAL</b>	100%

**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS — DANGER**

Corrosive, causes eye damage. Wear goggles while handling. Can cause irritation to skin such as burning and tingling. Do not get in eyes, on skin, or on clothing. Wear protective gloves while handling. Harmful if swallowed or absorbed through skin. If material gets on skin, the affected area should be thoroughly washed with plenty of soap and water. Remove and wash clothing before reuse.

For 24-hour emergency medical assistance, call (713) 473-9461.

**ENVIRONMENTAL HAZARDS**

This pesticide is extremely toxic to fish. Use with care when applying in areas adjacent to any body of water. Do not apply directly to water. Do not apply when weather conditions favor drift from treated area. Do not contaminate water by cleaning of equipment or disposal of wastes. Apply this product only as specified on this label.

**WILDLIFE PROTECTION IS EVERYONE'S RESPONSIBILITY**

This product is highly toxic to bees exposed to direct treatment or residues on crops or weeds. Do not apply PYDRIN or allow it to drift to crops or weeds on which bees are actively foraging. Additional information may be obtained by consulting your Cooperative Extension Service.

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#### DIRECTIONS FOR USE

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

##### STORAGE AND DISPOSAL

**STORAGE:** Store in a secure, dry and temperate area. Keep container closed when not in use. Do not store near food or feed. Do not use or store around the home. Avoid contact with water. In case of spill or leak, soak up with sand, earth or synthetic absorbent and dispose of wastes in compliance with local, State and Federal regulations.

**PESTICIDE DISPOSAL:** Pesticide spray mixture, or rinse water that cannot be used according to label instructions must be disposed of according to Federal or approved State procedures under Subtitle C of the Resource Conservation and Recovery Act.

**CONTAINER DISPOSAL:** Triple rinse (or equivalent). Then offer for recycling or reconditioning if container reuse is permitted. If container reuse is prohibited, puncture metal containers and dispose of in a sanitary landfill, or by other approved State and local procedures. Dispose of plastic containers in a sanitary landfill, or by incineration if allowed by State and local authorities. Dispose of glass containers in a sanitary landfill, or by other approved State and local procedures.

In case of a significant spill, call (713) 473-3451 or CHEMTREC (800) 424-9300.

#### GENERAL DIRECTIONS

PROBIO Insecticide 2.4 Emulsible Concentrate contains 2.4 pounds of active ingredient per gallon. For the applications given below, mix the required amount of PROBIO in sufficient diluent to provide uniform coverage (Refer to Use Tables). PROBIO may be applied by ground or aerial application equipment. Do not enter treated areas before spray is dry. Crops in this label may be planted immediately after last treatment. Do not plant other root crops within 12 months or all other crops within 90 days after last treatment.

#### NOTICE OF WARRANTY

SHELL CHEMICAL COMPANY MAKES NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PURPOSE, OR OTHERWISE, EXPRESS OR IMPLIED concerning this product or its uses which extend beyond the use of the product under normal conditions in accord with the statements made on this label.

*Sumitomo Chemical Company, Ltd., holds U.S. Patent, for the art, in the United States by Shell Chemical Company of products containing the active ingredient prepared under agreements with Sumitomo Chemical Company, Ltd.*

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**COTTON**

Crop	Insect	Dosage		Number acres treated with Gallon	Further Use Instructions	Days to Harvest
		Lb 33 acre	Floz acre			
Cotton	Dichlorodiphenylmethane	25-50	2-4	15-18	May be applied with or without a penetrant. When applied with a penetrant it should be applied after the plant has started to grow when applied with water apply no less than 100 gal per acre to be effective. Do not apply to plants less than 10" tall or to plants that are heavily shaded. Do not use on plants that are suffering from drought stress. For maximum effectiveness 3-5 days after treatment may be applied to the following cotton. Do not use on cotton that has been treated with any other insecticide.	21
	Permethrin	1.0	1.0	18		
	Permethrin 1% w/v 1.0 lb 33 3.5 fl oz 1.0 lb 33 3.5 fl oz 1.0 lb 33 3.5 fl oz	1.0	3.5	18-20		

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**COTTON — TANK MIX APPLICATIONS**  
**READ AND FOLLOW ALL PRECAUTIONS AND RESTRICTIONS ON THE PRODUCT LABELING.**

Tank Mix Combination	Insect	Dosage	Further Use Instructions	Days to Harvest
ALDRIN 5 Wettable Insecticide Solution	Cotton Bollworm and Tobacco Budworm eggs	ALDRIN from section table with 12.5 cc/litre NUCRON 50		21
ALDRIN 50 Wettable Insecticide Powder with 10% Malathion	Cotton Bollworm and Tobacco Budworm eggs	ALDRIN from section table with 1.8 cc/litre NUCRON 50	Apply upwards from 5:30 AM to 10:00 AM. Do not spray after 4:30 PM when NUCRON 50 wettable powder is applied.	21
Aldrin 5 Water Mixture Insecticide	Thrips	ALDRIN from section table with 3.5 cc/litre ALTRON 5	Do not irrigate when concentrations are high.	21
	Whiteflies	ALDRIN from section table with 3.8 cc/litre ALTRON 5		
	Mites	ALDRIN from section table with 1.6 cc/litre ALTRON 5		

\*Compare this label with the label on the product before use.

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FIELD CROPS

Crop	Insect	Dosage		Number acres treated with Gallon	Further Use Instructions	Days to Harvest
		lb a. acre	Fl oz. acre			
Field Corn	Cutworms Do. Earworm European Corn Borer	1.0-1.5	5.0-7.5 (0.2-0.3)	24.0	Repeat as necessary to maintain control. Do not exceed 0.6 lb a. per acre per season.	21
Soybeans	C. Erworm, Rednecked, Pearled A. W. Moths, Leafhopper, Leafminer, Caterpillar	1.0-1.5	5.0-7.5 (0.2-0.3)	48.0-54.0	Repeat as necessary to maintain control. Do not feed or graze livestock on treated areas. Do not exceed 0.6 lb a. per acre per season.	21
	Earworm, Green Cloverworm, Diabrotica	1.0-1.5	5.0-7.5 (0.2-0.3)	24.0		
	Leafminer, Green A. Borer	1.0	5.0-7.5	24.0	Repeat as necessary to maintain control.	
Soybeans	Mexican Bean Beetle, Green Cloverworm, Leafminer, Caterpillar, Pearled A. Moth	1.0-1.5	5.0-7.5 (0.2-0.3)	24.0	Repeat as necessary to maintain control. Do not feed or graze livestock on treated areas. Do not exceed 0.6 lb a. per acre per season.	21
	Caterpillar, Green Earworm, Green Cloverworm, Leafminer, Pearled A. Moth	1.0-1.5	5.0-7.5 (0.2-0.3)	24.0		

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**FRUITS AND NUTS**

**DRUTE SPRAY:** Apply specified dosage per 100 gallons of water in a uniform spray applied to the point of drip with conventional ground equipment. Do not exceed maximum number of gallons per acre indicated.

**NOTE:** In order to apply the correct amount of DRUTE to your orchard, you must know the number of gallons of water needed to spray one acre of your trees to the point of drip. Do not make any estimate. Measure the gallons of water needed to spray one acre of your orchard with your ground equipment. You should ask assistance from your equipment dealer.

**CONCENTRATE SPRAY:** Apply specified dosage per acre in 45 to 50 gallons of water per acre by ground equipment or 20 to 25 gallons of water per acre by air.

Crop	Insect	Dosage			Number acres treated with Gallon	Further Use Instructions	Days to Harvest
		Concentrate Spray		Dilute Spray			
		Lb a/ acre	Fl oz/ acre	Fl oz/ 100 gals			
Apples	Redding Moth; Variegated Leafminer; White Apple Leafhopper; Tentiform Leafminer; San Jose Scale; Apple Aphid; Tufted Apple Budmoth; Plum Curculio; Pear Stem Weevil; Apple Maggot; Pear Sanjose Leafminer; Lesser Appleworm	0.1 - 3	5-17.5-15	2-3-3	14-4	Repeat as necessary to maintain control. Do not feed or graze livestock on treated orchard floors. Do not exceed 2.0 lbs a/ acre per season. Full rate spray apply 100-150 gallons a/ acre.	21
Peach	Peach Tree Borer; Peach Tree Scale; Peach Tree Weevil; Plum Curculio; Pear Stem Weevil; Pear Sanjose Leafminer	0.1 - 3	5-17.5-15	2-3-3	5-8	Repeat as necessary to maintain control. Do not exceed 2.0 lbs a/ acre per season with no more than 1.0 lb a/ acre per season between bloom and harvest. For dilute spray apply 100-150 gallons a/ acre.  <u>Peach Tree Borer Control:</u> Peach Tree Borer Control - Apply as directed through trunk holes using thorough coverage. Peach Tree Borer Control - Apply as directed through trunk holes using thorough coverage. Peach Tree Borer Control - Apply as directed through trunk holes using thorough coverage. Apply by ground sprayer to achieve thorough coverage of all aerial portions of the tree. Do not graze livestock on treated orchard floors. Do not feed or graze livestock on treated	14

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FRUITS AND NUTS cont.

Crop	Insect	Dosage			Number acres treated with Gallon	Further Use Instructions	Days to Harvest
		Concentrate Spray		Dilute Spray			
		Lb av. acre	Fl oz. acre	Fl oz. 100 gals.			
Pear (including those interplanted with apples)	Pear Psylla	2.2-0.4	10.2-3.21-1.3	3	12-6	Apply during dormant to prebloom (until bud stage only). Do not apply more than 2.2 to 1.3 lb av. acre per dormant season. Do not graze orchard pear for 30 days after apply. 150-150 gals per acre.	
Pear	Pear Psylla, Codling Moth, Green Fruitworm, Plum Curculionid, Leafrollers, Pear Saw	1.1-0.3	5.1-3-1.5	1-1.5	24-8	Repeat as necessary to maintain control. Do not exceed 1.5 lb av. acre per season but more than 0.9 lb av. acre between bloom and harvest. Do not feed or graze livestock on treated orchard pears. For dilute spray apply 100-600 gals per acre.	13
Fibers	Fiber Worm	0.2-0.4	10.2-3-21-1.3	1-1.5	12-6	Make no application after emergence of fiber worms. Make 1 or 2 applications in early summer. Do not apply a second treatment later than 4 weeks after the first. Do not apply more than 0.2 to 0.4 lb av. acre per season. For dilute spray apply 100-400 gals per acre. Do not graze livestock on treated orchard pears.	17
Pears	Peach Weevil, Nixony Shuckworm, Pecan Nut Casebearer, Pear Aphid	1.1-0.3	5.1-3-1.5	1-1.5	14-8	Repeat as necessary to maintain control. Do not exceed 1.5 lb av. acre per season but more than 0.9 lb av. acre between bloom and harvest. Do not feed or graze livestock on treated orchard pears. For dilute spray apply 100-600 gals per acre.	17

U.S. GOVERNMENT PRINTING OFFICE: 1964