

FEB 3 1989

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Mr. David A. Wustner
Registration Specialist
E.I. du Pont de Nemours & Company, Inc.
Agricultural Products Department
Walker's Mill Building 5-116
Barley Mill Plaza
Wilmington, DE 19898

Dear Mr. Wustner:

Subject: Conditional Registration Application
Amendment - Application to Expand Use Directions
to All Crops With Existing Fenvalerate Tolerances
Including Editorial Changes in Present Label
DuPont Asana® XL Insecticide 0.66 E.C.
EPA Registration No. 352-515
Your Application Dated August 15, 1988

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable provided that you make the labeling changes listed below before you release the product for shipment bearing the amended labeling.

1. Delete the following sites and use instructions from the labeling:
 - a. Canberries;
 - b. Blueberries (and related bushberries);
 - c. Okra; and
 - d. Ornamentals.

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53998:I/C:Heyward:LR-4:KENCO:1/31/89:3/14/89:CT:VO:CL

CONCURRENCES

SYMBOL								
SURNAME								
DATE								

We will reconsider these sites once the Agency completes its risk assessment.

2. The Statement of Practical Treatment subheading for each instruction should be distinguished from the rest of the text. For example:

STATEMENT OF PRACTICAL TREATMENT

- IF SWALLOWED** - Do not induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs. If vomiting has not occurred, emesis should be induced with supervision by a physician or professional staff. If symptoms such as loss of gag reflex, convulsions or unconsciousness occur before emesis, gastric lavage should be considered following intubation with a cuffed endotracheal tube.
- IF IN EYES** - Flush eyes with plenty of water while holding eyelids open. Get medical attention.
- IF ON SKIN** - Wash with soap and water immediately. After drying, apply vitamin E cream or oil if available. If not available, apply vegetable oil liberally over painful areas. The oil or cream may be used repeatedly until relief is achieved. Get medical help if irritation persists.
- IF INHALED** - Remove victim to fresh air and provide oxygen if breathing is difficult. Give artificial respiration if not breathing. Get medical attention.
3. Revise the statement pertaining to contamination of equipment in the Environmental Hazards section to read "Do not contaminate water when disposing of equipment washwaters."

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Submit five (5) copies of your final printed labeling before you release the product for shipment.

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

Sincerely yours,

George T. LaRocca
Product Manager (15)
Insecticide-Rodenticide Branch
Registration Division (TS-767C)

Enclosure

BEST AVAILABLE COPY

**RESTRICTED
USE PESTICIDE**

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



ASANA® XL Insecticide

0.66 Emulsible Concentrate

This product contains 0.66 lbs. Active Ingredient per gallon.

ACTIVE INGREDIENT	BY WEIGHT
(S)-cyano (3-phenoxyphenyl) methyl-(S)-4-chloro-alpha-(1-methylethyl)benzeneacetate	8.4%

INERT INGREDIENTS	91.6%
TOTAL	100 %

*CONTAINS XYLENE PARAFFIN AROMATIC SOLVENT

EPA Reg. No. 350-515

EPA EST No. 5905-AR-1

KEEP OUT OF REACH OF CHILDREN

WARNING

AVISO PRECAUCION AL USUARIO : Si usted no lee ingles, no use este producto hasta que la etiqueta haya sido explicada ampliamente.

STATEMENT OF PRACTICAL TREATMENT

If less than 2 ml is swallowed per kg of body weight, do not induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs. If more than 2 ml per kg body weight is swallowed and vomiting has not occurred, emesis should be induced with supervision by a physician or professional staff. If symptoms such as loss of gag reflex, convulsions or unconsciousness occur before emesis, gastric lavage should be considered following intubation with a cuffed endotracheal tube.

For eye contact flush eyes with plenty of water for at least 15 minutes while holding eyelids open. Get medical attention.

For skin contact wash with soap and water immediately. After drying, apply vitamin E cream or oil if available. If not available, apply vegetable oil liberally over painful areas. The oil or cream may be used repeatedly until relief is achieved. Get medical help if irritation persists.

If inhaled remove victim to fresh air and provide oxygen if breathing is difficult. Give artificial respiration if not breathing. Get medical attention.

Remove and wash clothing before reuse.

For medical emergencies involving this product, call toll free 1-800-441-3637.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING May be fatal if swallowed. Harmful if inhaled. Do not get in eyes, on skin, or on clothing. Wear goggles or face shield, protective clothing, and rubber gloves when handling. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

For medical emergencies involving this product, call toll free 1-800-441-3637.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to wildlife and 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 areas. Do not contaminate water by cleaning of equipment or disposal of wastes. Apply this product only as specified on use label.

This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply ASANA XL or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment area. Additional information may be obtained by consulting your Cooperative Extension Service.

WILDLIFE PROTECTION IS EVERYONE'S RESPONSIBILITY

DIRECTIONS FOR USE

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

REENTRY STATEMENTS

Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons.

Do not enter treated areas without protective clothing until sprays have dried.

Because certain states may require more restrictive reentry intervals for various crops treated with this product, consult your State Department of Agriculture for further information.

Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. (Indicate specific oral warnings which inform workers of areas or fields that may not be entered without specific protective clothing, period of time field must be vacated and appropriate actions to take in case of accidental exposure.) When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. Written warnings must include the following information: "WARNING! Area treated with ASANA XL Insecticide on (date of application). Do not enter without appropriate protective clothing until sprays have dried. (Insert here action to take in case of accidental exposure. See front panel STATEMENT OF PRACTICAL TREATMENT for details.)"

GENERAL DIRECTIONS

ASANA XL Insecticide 0.66 Emulsible Concentrate contains 0.66 pounds of active ingredient per gallon. For the applications given below, mix the required amount of ASANA XL in sufficient diluent to provide uniform coverage (Refer to Use Tables). ASANA XL may be applied by ground or aerial application equipment. Do not enter treated areas before spray is dry.

ASANA XL Insecticide is not effective against weeds.

Tank Mixing: ASANA XL may be tank mixed with the herbicides listed below when weed populations require control concurrent with the need for weed control. Follow all herbicide and ASANA XL directions regarding proper usage. A "jar test" for physical compatibility should be conducted before field mixtures are made and application is made. For best results, use of spray equipment having continuous agitation is recommended.

ASANA XL may be used in combination with 2,4-D herbicides providing the following mixing directions are followed: 1) Do not apply the combination of water less than 2 gallons per acre total spray. 2) Always mix ASANA XL thoroughly in the total volume of spray water first, followed by the addition of the 2,4-D herbicide. Because of the availability of a great variety of 2,4-D herbicide products, a jar test for physical compatibility should be conducted before field mixtures of a particular combination are made.

Asana 80WP (1)	Lasso 4EC (4)	Bladex 4 L (1)
Asana 4L	Classic (1)	Atrazine 80WP
Asana 1L	Gramoxone Super (5)	Velpar L (1)
Asana 4.5L (2)	Velpar (1)	Banvel 4EC (3)
Asana Plus (1)	Dual 8E (2)	Extrazine 80DF (1)
Asana 4.5L (2)	Dual 8E (2)	Extrazine 80DF (1)

Chemigation. Apply this product only through sprinkler including center pivot, lateral move, and low, side (wheel) row, traveler, big gun, solid set, or hand move irrigation systems. Do not apply this product through any other type of irrigation system. ASANA XL may be premixed in a supply tank with water, oil, fertilizer, or other appropriate tank mixed agricultural chemicals. A pretest of physical compatibility for untried tank mixes is advised. Agitation may be necessary. Application should be in sufficient water and of sufficient duration to apply the recommended rate evenly to the entire treated area. No run-off can be permitted during chemigation. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from nonuniform distribution of treated water. Do not apply when wind speed favors drift beyond the area intended for treatment.

If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts. A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

Do not connect an irrigation system (including greenhouse systems) used for ASANA XL application to a public water system.

The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down. The system must contain functional interlocking controls to automatically shut-off the pesticide injection pump when the water pump motor stops. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Expand chemigation instructions.

Separate crop rotation instructions.

Highlight insecticide resistance in relation to control failure.

Move herbicide tank-mix instructions from the field corn use directions and expand.

Move from page 43.

COTTON

Clarify heading (all use instructions)

Crop	Insect	Dosage			Further Use Instructions	Days to Harvest
		Lb aI/ acre	Fl oz/ acre			
COTTON	Cotton Bollworm Tobacco Budworm Boll Weevil Beet Armyworm Cabbage Looper Saltmarsh Caterpillar Cotton Leafworm Cutworms Lygus Bugs Plant Bugs Thrips (on seedling cotton) Leafhoppers Flea-hoppers Grasshoppers Whitefly	0.03 - 0.05	5.8 - 9.8	22 - 13	May be applied in water or nonvolatile vegetable oils. When using oil, apply a total spray volume of 1 or more quarts/acre. When diluted with water, apply no less than one gallon per acre by air (min. of 3 gal/a in Arizona and 5 gallons per acre in California) or 4 gallons per acre by ground. Repeat as necessary throughout season to maintain control. For the control of Boll Weevil, a 3-5 day interval between sprays may be required. Apply no more than 0.5 lb aI/a to a crop in a growing season. Do not graze livestock on treated fields or feed treated trash. *Aids in the suppression.	21
	NOTE: For light infestations of the above insects	0.02	3.9	33		
	Pink Bollworm	0.015 - 0.03	2.9 - 5.8	44 - 22		
	Cotton Leaf Perforator	0.03	5.8	22		

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
LANNATE/LNUDRIN 1.8 Methomyl Insecticide(1) Solution	Cotton Bollworm and Tobacco Budworm eggs	ASANA XL (from cotton table) with 1/2 pI/acre LANNATE L/NUDRIN 1.8		21
LANNATE/LNUDRIN 90 Methomyl Insecticide(1) Water Soluble Powder with adjuvant	Cotton Bollworm and Tobacco Budworm eggs	ASANA XL (from cotton table) with 1/8 lb/acre LANNATE/LNUDRIN 90	Add adjuvant (X-77, Bio-88, Unite, Trilon B-1956 or equivalent*) to spray tank, then ASANA XL, then LANNATE/LNUDRIN 90, agitate until thoroughly mixed. *Compatibility of alternate should be determined before use	

Remove tank-mix directions for DuPont Azodrin 5 WM

FIELD CROPS

Crop	Insect	Dosage		Number of acres treated with one gallon of ASANA XL	Further Use Instructions	Days to Harvest
		Lb a.i./acre	Fl oz/acre			
CORN FIELD CORN	Cutworms Grasshoppers	0.03 - 0.05	5.8 - 9.8	22-13	Apply as necessary to maintain control. 	21
	Western Bean Cutworm	0.015 - 0.03	2.9 - 5.8	44-22	Apply as necessary to maintain control. Application must be made before larvae enter the ear.	
	Corn Earworm	0.03 - 0.05	5.8 - 9.8	22-13	First application should be at or before silking. Subsequent applications should be made at 3-5 day intervals until silking is completed. Repeat applications may be applied if economically damaging populations exist.	
	Stalk Borer Flea Beetles	0.03 - 0.05	5.8 - 9.8	22-13	Application must be made early in migration from grassy areas to corn, before borers enter the plant. More than one application may be necessary.	
	Corn Rootworm (adult control)	0.03 - 0.05	5.8 - 9.8	22-13	Spray at first sign of silk feeding. Reinfestation may occur. Should reinfestation occur, repeat as necessary to maintain control.	
	Chinch Bugs	0.03 - 0.05	5.8 - 9.8	22-13	Over the top sprays, as used for control of ear and stalk infesting corn pests, are not adequate for chinch bug control. It is very important that the spray be directed at the base of the plant through the use of drop nozzles or some other mechanism. Repeat as necessary to control migrating chinch bugs.	
	European Corn Borer	0.04 - 0.05	7.8 - 9.8	16-13	First brood: spray while eggs are in the blackhead stage or before the larvae enter the whorl. Application by ground equipment is suggested. Good coverage of both upper and lower leaf surfaces is essential. This can be accomplished with drop nozzles over the row and on each side of the corn plant. Multiple applications may be required when egg laying is prolonged or where moderate to heavy populations are present. A higher rate is recommended for moderate to heavy populations. Proper coverage by ground equipment usually requires 20-30 gallons of carrier. Once larvae enter the whorl, foliar sprays will not provide adequate control. Second brood: make applications when sufficient egg masses are found. Spray where eggs are in the blackhead stage or nearing hatch. When egg laying is prolonged or a third generation is present, additional sprays may be required. A higher rate is recommended for moderate to heavy populations. Good coverage above, below, and in the ear zone is essential. This usually requires 2-3 gallons of carrier by air. If ground equipment is used, drop nozzles on each side of the plant will provide best coverage.	
	Southwestern Corn Borer	0.03 - 0.05	5.8 - 9.8	22-13	Apply as necessary to maintain control. Two or more applications may be required. Higher rates (0.035-0.05 lb. a.i.) are recommended for moderate to heavy populations.	
	Armyworm (True Armyworm)	0.03 - 0.05	5.8 - 9.8	22-13	Apply as necessary to maintain control.	

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Crop	Insect	Dosage		Number of acres treated with one gallon of ASANA XL	Further Use Instructions	Days to Harvest
		Lb a.i./acre	Fl oz/acre			
CORN FIELD CORN (cont'd)	Adult Corn Rootworm European Corn Borer	ASANA XL and Parathion from respective corn labels.			ASANA XL insecticide may be tank-mixed with Parathion (methyl and/or ethyl) and applied on field corn (and seed corn) where supplemental control of Adult Corn Rootworm and/or European Corn Borer is desired. In conjunction with insects controlled by ASANA XL when used alone. For supplemental control of second brood European Corn Borer, make applications when sufficient egg masses are found. Spray when eggs are in the blackhead stage or starting to hatch. When egg laying is prolonged or a third generation is present, additional sprays may be required. A higher rate is recommended for moderate to heavy populations. Good coverage above, below, and in the ear zone is essential. This usually requires 2-3 gallons of carrier by air. If ground equipment is used, drop nozzles on each side of the plant will provide best coverage. For supplemental control of Adult Corn Rootworm, spray at first sign of silk feeding. Reinfestation may occur. Should reinfestation occur, repeat as necessary to maintain control. Refer to the ASANA XL and Parathion (methyl or ethyl) labels for appropriate rates of the individual products for controlling the respective insects.	21
	Corn Leaf Aphid Oat Bird-Cherry Aphid	0.03 - 0.05	5.8 - 9.8	22-13	For optimum results, direct the spray at the aphid population so as to achieve maximum coverage of the exposed insects. Aphids not contacted by the spray, such as in whorls and leaf axils, may not be adequately controlled.	
	Do not exceed 0.25 lb a.i. per acre per season.					
SEED CORN	For specific insect control recommendations refer to Field Corn (above). Follow directions carefully.				Multiple applications and/or shortened intervals between sprays must be used to insure proper insect control. Do not exceed 0.25 lb a.i. per acre per season.	21
POP CORN	For specific insect control recommendations refer to Field Corn (above). Follow directions carefully.				Multiple applications and/or shortened intervals between sprays must be used to insure proper insect control. Do not exceed 0.5 lb a.i. per acre per season.	1
PEANUTS	Corn Earworm Red-necked Peanut Worm Potato Leafhopper Velvetbean Caterpillar	0.01 - 0.02	2.9 - 5.8	44-22	Repeat as necessary to maintain control. Do not feed or graze livestock on treated vines. Do not exceed 0.15 lb a.i. per acre per season. ** Aids in control. *** Aids in control. For heavy infestations use LANNATE / NUDRIN - Insecticide is recommended. Please refer to the LANNATE / NUDRIN label for use instructions.	21
	Beet Armyworm Granulate Cutworm Grasshoppers Cutworms	0.01 - 0.02	5.8 - 9.8	22-13		
	Lesser Cornstalk Borer** Fall Armyworm***	0.05	9.8	13		
General increase in minimum recommended rate from 0.0125, or 0.025 to 0.015 or 0.03 lb a.i. per acre						

Emphasize limits to maximum use

Emphasize limits to maximum use

Crop	Insect	Dosage		Number of acres treated with one gallon of ASANA XL	Further Use Instructions	Days to Harvest
		Lb a.i./acre	Fl oz/acre			
SOYBEAN	Mexican Bean Beetle Green Cloverworm Velvetbean Caterpillar Potato Leafhopper Saltmarsh Caterpillar Woollybear Caterpillar	0.015 - 0.03	2.9 - 5.8	44-22	Repeat as necessary to maintain control. Do not feed or graze livestock on treated plants. Do not exceed 2 lb a.i. per acre per season. When applying in nonvolatile vegetable oils use a total spray volume of 1 or more quarts.	21
	Cabbage Looper Corn Earworm Southern Green Stinkbug Bean Leaf Beetle Cutworms Three-cornered Alfalfa Hopper Beet Armyworm Grasshoppers Japanese Beetle (adult)	0.03 - 0.05	5.8 - 9.8	22-13		
CARAME	Sugarcane Borer	0.03-0.05	5.8-9.8	22-13	Repeat as necessary to maintain control. Do not exceed 0.2 lb a.i. per acre per season.	21
SUNFLOWER	Sunflower Beetle	0.015-0.03	2.9-5.8	44-22	Repeat as necessary to maintain control. Do not exceed 0.2 lb a.i. per acre per season.	28
	Grasshoppers Cutworms Heliothis (complex) Sunflower Moth Sunflower Seed Weevil Banded Sunflower Moth Beet Armyworm Sunflower Maggot Leafhoppers Sunflower Stem Weevil	0.03 - 0.05	5.8 - 9.8	22-13		

FRUITS AND NUTS

DILUTE 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 ASANA XL insecticide 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. If you do not already know this gallonage, you should conduct a test to determine it. If you do not know how to conduct such a test with your equipment, you should ask assistance from your equipment dealer or State Extension specialist.

CONCENTRATE SPRAY: Apply specified dosage per acre in no less than 30 gals. of water per acre by ground. When applying ASANA XL by air, consult your Cooperative Extension Service for application guidelines.

Crop	Insect	Dosage			Number of acres treated with one gallon of ASANA XL	Further Use Instructions	Days to Harvest
		Concentrate Spray		Dilute Spray			
		Lb a.i./acre	Fl oz/acre	Fl. oz/100 gals			
APPLE	Oblique Banded Leafroller Codling Moth Vernate Leafroller White Apple Leafhopper Tentiform Leaf Miner San Jose Scale (fruit infestations only) Apple Aphid Tufted Apple Budmoth Plum Curculio Oriental Fruit Moth Apple Maggot Red-Banded Leafroller Lesser Appleworm Green Fruitworm Rosy Apple Aphid Plant Bugs (Tarnished Plant Bug, Stink Bugs) Periodical Cicada	0.025 - 0.075	4.8 - 14.5	20 - 5.8	26-9	Repeat as necessary to maintain control. Do not feed or graze livestock on treated orchard floors. Do not exceed 0.525 lb a.i. per acre per season. For dilute spray apply 200-800 gals per acre, but do not exceed 14.5 fl. oz. of ASANA XL per acre per treatment. <u>Plant Bug, Rosy Apple Aphid Control:</u> Time of application is critical in achieving control. Use prebloom and post bloom spray timings recommended by State Extension Services.	21

Crop	Insect	Dosage			Number of acres treated with one gallon of ASANA XL	Further Use Instructions	Days to Harvest
		Concentrate Spray		Dilute Spray			
		Lb a.i./acre	Fl oz/acre	Fl. oz/100 gals			
Stone Fruits (including peaches, apricots, nectarines, plums, prune plums, cherries)	Peach Twig Borer, Oriental Fruit Moth, Peach Tree Borer, Plum Curculio, Lesser Peach Tree Borer, Periodical Cicada, Cherry-Fruit Fly, Western Cherry Fruit Fly, American Plum Borer, Black Cherry Aphid, Leafrollers, Leafhoppers, Green Fruit worm, Plant Bugs (Tarnished Plant Bug, Stink Bugs)	0.025-0.075	4.8-14.5	2.0-5.8	26-9	Repeat as necessary to maintain control. Do not exceed 0.375 lbs a.i. per acre per season with no more than 0.3 lbs a.i. per acre per season between bloom and harvest. For dilute spray apply 200-400 gals per acre, but do not exceed 14.5 fl. oz of ASANA XL per acre per treatment. Do not graze livestock on treated orchard floors. <u>Peach Tree Borer, American Plum Borer, Lesser Peach Tree Borer Control</u> - Apply as directed trunk and scaffold limb spray. Thorough coverage of trunk and scaffold limbs is required. <u>Peach Twig Borer, Plum Curculio, Oriental Fruit Moth, Cherry Fruit Fly, Western Cherry Fruit Fly, Leafrollers, Black Cherry Aphid, Periodical Cicada Control</u> - Apply by ground sprayer to achieve thorough coverage of all aerial portions of the tree. <u>Plant Bug Control</u> - Time of application is critical in achieving control. Use prebloom and post bloom spray timings recommended by State Extension Services.	14
PEAR (DORMANT)	Pear Psylla	0.05-0.1	9.6-19.2	7.3-12.8	132-6.6	Apply during dormant to prebloom (white bud) stage only. Do not apply more than 0.2 lb a.i. per acre per season. Do not graze orchard floor. For dilute spray apply 150-250 gals per acre, but do not exceed 19.2 fl. oz of Asana XL per acre per treatment.	
PEAR	Pear Psylla, Codling Moth, Green Fruitworm, Plum Curculio, Leafrollers, Pear Slug, Periodical Cicada	0.025-0.075	4.8-14.5	2.0-5.8	26-9	Repeat as necessary to maintain control. Do not exceed 0.375 lbs a.i. per acre per season, nor more than 0.225 lb a.i. per acre between bloom and harvest. Do not feed or graze livestock on treated orchard floors. For dilute spray apply 200-600 gals per acre, but do not exceed 14.5 fl. oz of ASANA XL per acre per treatment.	28
ALMONDS	Naval Orangeworm, Peach Twig Borer	0.05-0.1	9.6-19.2	7.3-12.8	132-6.6	Repeat as needed to maintain control but do not exceed 0.2 lb a.i. per acre per season. Do not graze livestock on treated orchard floors.	21
ALBERTS	Filbert Worm, Oblique Banded Leafroller	0.05-0.1	9.6-19.2	7.3-12.8	132-6.6	Make first application after emergence of filbert worm moths in early summer. Do not apply a second treatment earlier than three weeks after the first. Do not apply more than 0.2 lb a.i. per acre per season. For dilute spray, apply 200-400 gals per acre, but do not exceed 19.2 fl. oz of ASANA XL per acre per treatment. Do not graze livestock on treated orchards.	21
PECANS	Pecan Weevil, Hickory Shuckworm, Pecan Nut Casebearer, Pecan Aphids, Pecan Spittlebug	0.025-0.075	4.8-14.5	2.0-5.8	26-9	Repeat as necessary to maintain control. Do not feed or graze livestock on treated orchard floors. Do not exceed 0.3 lbs a.i. per acre per season. For dilute spray apply 200-600 gals per acre, but do not exceed 14.5 fl. oz. of ASANA XL per acre per treatment.	21

New uses presently on the PYDRIN Insecticide label

Crop	Insect	Dosage			Number of acres treated with one gallon of ASANA XL	Further Use Instructions	Days to Harvest
		Concentrate Spray		Dilute Spray			
		Lb a.i./acre	Fl oz/acre	Fl. oz/100 gals			
PECANS	Pecan Stem Phylloxera Pecan Leaf Phylloxera	0.025 - 0.075	4.8 - 14.5	2.0 - 5.8	28-8	Repeat as necessary to maintain control. Do not feed or graze livestock on treated orchard floors. Do not exceed 0.3 lb. a.i. per acre per season. For dilute spray apply 200-400 gals per acre, but do not exceed 14.5 fl oz. of ASANA XL per acre per treatment. Correct timing of spray applications is critical in achieving optimum control of leaf and stem phylloxera. Consult local spray recommendations for correct times of application.	21
WALNUTS	Walnut Aphid Walnut Husk Fly Codling Moth Naval Orangeworm	0.05 - 0.01	9.6 - 19.2	4.0	13-6	Repeat as necessary to maintain control. Do not exceed 0.2 lb a.i. per acre per season. For dilute sprays, apply 200-400 gals per acre. Do not feed or graze livestock on treated crop floors. NOTE: Use of baits in Walnut Husk Fly sprays is recommended where endorsed by local Agricultural Extension Service. CONCENTRATE SPRAY Apply specified dosage per acre in no less than 30 gals. of water per acre by ground or 5 gals. of water per acre by air.	21
STRAWBERRIES, RASPBERRIES, BLACKBERRIES, RUBUS, RASPBERRIES, RASPBERRIES, RASPBERRIES and varieties of these)	Oblique Banded Leafroller Orange Tortrix, Aphids	0.025 - 0.05	4.8 - 9.6		28-13	Ground equipment only. Apply as needed to maintain control, but do not exceed 0.125 lb a.i. per season. Apply in a minimum of 50 gallons of water per acre for a full coverage spray.	
CHERRY BERRIES RASPBERRIES PLANTS ROSE BERRIES BLACKBERRIES	Cherry Fruitworm Cranberry Fruitworm Leafhoppers Blueberry Maggot Orange Tortrix Blueberry Flea Beetle Blueberry Aphid	0.025 - 0.05	4.8 - 9.6		25-13	Ground equipment only. Apply as needed to maintain control, but do not exceed 0.2 lb a.i. per season. Apply in a minimum of 50 gallons of water for a full coverage spray.	14

Added uses (proposed for, but not approved for PYDRIN label)

VEGETABLE CROPS

Expanded use directions consistent with normal CA use

Crop	Insect	Dosage		Number of acres treated with one gallon of ASANA XL	Further Use Instructions	Days to Harvest
		Lb a.i./acre	Fl oz/acre			
ARTICHOKES	Artichoke Plume Moth	0.03 - 0.05	5.8 - 9.6	22-13	Repeat as necessary to maintain control. Apply in a minimum of 10 gallons per acre by air and 50-200 gallons per acre by ground (use sufficient water to obtain coverage without excessive runoff)	7
BROCCOLI, CABBAGE, CAULIFLOWER, BRUSSELS SPROUTS	Imported Cabbageworm	0.015 - 0.03	2.9 - 5.8	44-22	Repeat as necessary to maintain control. Do not exceed 4 lb a.i. per acre per season.	3
	Cabbage Looper Beet Armyworm Ailanthus Looper Flea Beetle Grasshopper Cutworm	0.03 - 0.05	5.8 - 9.6	22-13		

Add Chinese cabbage (expanded definition of cabbage. FR 53(22) 3023, Feb. 3, 1988)

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Crop	Insect	Dosage		Number of acres treated with one gallon of ASANA XL	Further Use Instructions	Days to Harvest
		Lb a.i./acre	Fl oz/acre			
CARROTS	Asparagus Leafhopper, Cutworms, Leafhoppers	0.03 - 0.05	5.8 - 9.6	22 - 13	Apply as needed for control, but do not exceed 0.5 lb a.i./acre per season. Use ground application only.	7
	Carrot Weevil	0.05	9.6	13	* Begin treatment when weevils become active.	
COLLARDS	Imported Cabbageworm, Cabbage Looper, Beet Armyworm, Alfalfa Looper, Flea Beetle, Grasshopper, Cutworms	0.03 - 0.05	5.8 - 9.6	22 - 13	Repeat as necessary to maintain control. Do not feed livestock on treated plant parts. Do not exceed 0.2 lb. a.i. per acre per season. Use ground application equipment only.	7
CUCUMBER, MELONS (Cantaloupe, Honeydew, Melons, Watermelon, Muskmelon), PUMPKIN, SQUASH (Summer, Winter)	Pickworms, Rindworms, Leafhoppers, Corn Earworm, Cabbage Looper, Squash Bug, Cutworms (seeding spray), Cucumber Beetle (adults), Grasshoppers, Plant Bugs (Lygus Bugs, Stink Bugs), Squash Vine Borer	0.03 - 0.05	5.8 - 9.6	22 - 13	Repeat as necessary to maintain control. Do not exceed .25 lbs. a.i. per acre per season.	3
SNAP BEANS	Mexican Bean Beetle, Saltmarsh Caterpillar	0.015 - 0.03	2.9 - 5.8	44 - 22	Repeat as needed to maintain control but do not exceed 0.2 lb/a.i. acre per season. Do not allow livestock to graze treated bean fields. Do not harvest treated bean vines for livestock forage, fodder, or hay.	3
	Potato leafhopper, European cornborer, Corn Earworm, Cucumber Beetle (adults), Flea Beetle, Green Cloverworm, Cutworm (seeding spray), Grasshopper, Pea Aphid, Leafhopper, Cabbage Looper, Western Bean Cutworm, Velvet Bean Caterpillar, Beet Armyworm, Cucumber Beetle, Corn Rootworm (adults), Leafminer (beans only)	0.03 - 0.05	5.8 - 9.6	22 - 13		
DRY BEANS, DRY PEAS	Mexican Bean Beetle, Saltmarsh Caterpillar	0.015 - 0.03	2.9 - 5.8	44-22	Repeat as necessary to maintain control. Do not exceed 0.2 lb a.i. per acre per season. Do not feed or graze livestock on treated vines.	21
	Corn Earworm, Potato Leafhopper, Pea Aphid, Grasshoppers, Leafhoppers, Cowpea Curculio, Cutworms, Cabbage Looper, Western Bean Cutworm, Velvetbean Caterpillar, Beet Armyworm, Cucumber Beetle, Corn Rootworm (Adults), Painted Lady Butterfly (larvae), Green Cloverworm	0.03 - 0.05	5.8 - 9.6	22-13		

Add lentils (expanded definition of dried peas. 40 CFR 180.1)

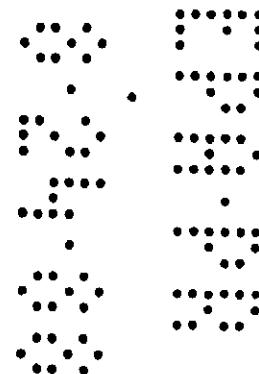
Crop	Insect	Dosage		Number of acres treated with one gallon of ASANA XL	Further Use Instructions	Days to Harvest
		Lb a.i./acre	Fl oz/acre			
EGGPLANT	Colorado Potato Beetle Flea Beetles Corn Earworm Loopers European Corn Borer	0.03 - 0.05	5.8 - 9.6	22-13	Begin application when insects or their damage is observed and repeat at 7 to 10 day intervals to achieve control. Do not exceed 0.35 lb a.i. per acre per season.	7
GREEN PEAS	Pea Aphid Green Cloverworm	0.015 - 0.03	2.9 - 5.8	44-22	Repeat as necessary to maintain control but do not exceed 0.1 lb a.i./acre per season. Do not feed treated pea vines to livestock.	3
	Cabbage Looper Celery Looper Alfalfa Looper Cutworms Armyworm Corn Earworm Imported Cabbageworm Alfalfa Caterpillar	0.03 - 0.05	5.8 - 9.6	22-13		
	Corn Ear Worms	0.03 - 0.05	5.8 - 9.6	22 - 13	For use in Florida only. Ground equipment only. Apply as needed to maintain control but do not exceed 0.5 lb a.i./acre per season. Apply in a minimum of 30 gallons of water per acre for full coverage spray.	1
PEPPERS	European Corn Borer Flea Beetles Corn Earworm Loopers Colorado Potato Beetle Pepper Weevil Cucumber Beetle (adults) Southern Armyworm	0.03 - 0.05	5.8 - 9.6	22-13	Begin application when insects or their damage is observed and repeat at 7 to 10 day intervals to achieve control. Do not exceed 0.35 lb a.i. per acre per season. Add in control.	7
POTATO	Potato Psyllid Potato Tubeworm	0.015 - 0.03	2.9 - 5.8	44-22	Repeat as necessary to maintain control. Do not graze livestock on treated vines. Do not exceed 0.35 lb a.i. per acre per season.	7
	Flea beetles Tarnished Plant Bug Cabbage Looper Potato Aphid Potato Leafhopper Cucumber Beetle (adult control) Grasshoppers European Corn Borer Beet Armyworm Western Yellow-striped Armyworm Buckhorn Aphid Cutworms	0.03 - 0.05	5.8 - 9.6	22-13		
	Colorado Potato Beetle	0.03 - 0.05	5.8 - 9.6	22-13		
	Colorado Potato Beetle - Long Island, NY	0.05	9.6	13		
RADISHES	Armyworms Beetles	0.03 - 0.05	5.8 - 9.6	22 - 13	Repeat as necessary to maintain control. Do not apply more than 0.1 lb a.i./acre per season.	7
TURNIPS	Imported Cabbageworm Armyworm Flea beetle	0.03 - 0.05	5.8 - 9.6	22 - 13	Repeat as necessary to maintain control. Do not apply more than 0.4 lb a.i./acre per season.	7

IR4

Add uses

IR4

Crop	Insect	Dosage		Number of acres treated with one gallon of ASANA XL	Further Use Instructions	Days to Harvest
		Lb ai/ acre	Fl oz/ acre			
SWEET CORN	Corn Earworm Southeastern Corn Borer European Corn Borer Beet Armyworm Flea Beetles Sap Beetles (adults) Banded Cucumber Beetle Tarnished Plant Bug	0.03 - 0.05	5.8 - 9.6	22-13	Do not exceed 0.5 lb a.i. per acre per season. Begin applications either before or at time of silking and continue as necessary to maintain control. For protection against corn borers other than at silking time, treat when necessary to maintain control. For additional information consult directions for use under field corn.	1
	Stalk Borer Cutworms Corn Rootworms (adults) Grasshoppers Crunch Bugs Armyworm	0.03 - 0.05	5.8 - 9.6	22-13	For additional information consult directions for use under field corn.	
	Western Bean Cutworm	0.015 - 0.03	2.9 - 5.8	44-22		
	Corn Leaf Aphid Oat Bird-Cherry Aphid	0.03 - 0.05	5.8 - 9.6	22-13	For optimum results, direct the spray at the aphid population so as to achieve maximum coverage of the exposed insects. Aphids not contacted by the spray, such as in whorls and leaf axils, may not be adequately controlled.	
TOMATO	Tomato Hornworm Tobacco Hornworm	0.015 - 0.03	2.9 - 5.8	44-22	Repeat as necessary to maintain control. Do not feed or graze livestock on treated vines. Do not exceed 0.5 lbs. a.i. per acre per season.	1
	Tomato Pinworm Flea Beetle Tomato Fruitworm Colorado Potato Beetle Cutworms Cabbage Looper Southern Armyworm Sugarbeet Armyworm Western Yellow-Striped Armyworm Grasshopper Wheatly Potato Aphid	0.03 - 0.05	5.8 - 9.6	22-13		
	Vegetable Leafminer	0.05	9.6	13	*Not recommended in Florida	



SPECIALTY USES

Crop	Insect	Dosage		Number of acres treated with one gallon of ASANA XL	Further Use Instructions
		Lb al/ acre	Fl oz/ acre		
NON-CROP LAND (excluding public land such as forests, parks, or recreational)	Grasshoppers Saltmarsh Caterpillar	0.015 - 0.03	2.9 - 5.8	44-22	Spray non-crop land adjacent to tilled areas to control migrating insects (Grasshoppers, Armyworms) which are a threat to crops. Repeat as necessary to maintain control but do not exceed 0.5 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 Chinch Bugs	0.03 - 0.05	5.8 - 9.6	22-13	

Crop	Insect	Dosage		Further Use Instructions
		Lb al / 100 gals.	Fl oz / 100 gals.	
ORNAMENTALS (OUTDOOR, GREENHOUSE)	Whitefly Webworms Cutworms Bagworms Leafrollers Black Vine Weevil Lacebug Oleander Caterpillar Periodical Cicada	0.03 - 0.05	5.8 - 9.6	Apply as needed to maintain control. Spray sufficient gallonage to obtain good coverage. For best control of leafrollers and webworms, apply sprays before extensive leafrolling or webbing is evident. ASANA XL has received extensive testing on ornamentals. However, it is not possible to test all species, cultures, varieties under all conditions of ornamental use. For ornamental uses, particularly untried tank mixes, a small scale test for plant effects is advised prior to major use.

Add Ornamental use presently approved for but not printed on PYDRIN Insecticide label. Expand use directions concerning phytotoxicity.

Crop	Insect	Dosage			Further Use Instructions
		High Volume Sprays		Low Volume Sprays	
		Lb. ai/ 100 gals.	Fl oz/ 100 gals.	(Mistblower) Lb. ai/acre	
CHRISTMAS TREE PLANTINGS CONIFER SEED ORCHARDS, FOREST TREE NURSERIES	Nantucket Pine Tip Moth Spruce budworm Pineleaf Chermid Redheaded Pine Sawfly Balsam Woolly Adergid Pine Chalcid Red Pine Sawfly Pine Conelet Bug European Pine Sawfly Cherry Bark Beetle (adult control) Pine Needle Midge Balsam Twig Aphid Spruce budworm	0.03 - 0.05	5.8 - 9.6	0.03 - 0.05	Apply as needed to maintain control. Spray sufficient gallonage to obtain good coverage of entire tree.
	Pine Weevil Northern Pine Weevil	0.03 - 0.05	5.8 - 9.6		Apply as needed to maintain control. Dilute formulation in kerosene instead of water and spray tree stumps to control developing larvae. Use sufficient spray volume to thoroughly cover stump.
	Coneworms Seedbugs Seed Chalcid	9.6 fl oz/100 gals water for high volume sprayers 52 fl oz/100 gals water for low volume sprayers 0.19 lb. ai/acre application in not less than 10 gals of water for aerial applications			Apply first application within 1 week of female flower closure or peak pollen flight for Weevil, Coneworm control. For other Coneworms and Seedbugs apply first application within 30 days following female flower closure. Repeat application at intervals of 4 weeks but do not exceed 1.6 lbs. ai/acre. For Seed Chalcid control apply when all cones are pendant and repeat at 1-2 week intervals for 2 or more sprays or as needed. Apply approximately 5-10 gals of the 9.6 fl oz/100 gal dilution per tree with high volume sprayers. With low volume sprayers apply 100 gals of the 52 fl oz/100 gal dilution per acre.
Change from pine to conifer, (SLN OR-84003000-6, WA-84-003300-7)					

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

STORAGE: Store in a secure, dry and temperate area. Store in original container. 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 (do not use alkaline absorbents) and dispose of wastes in compliance with local, State and Federal regulations.

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER 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. If burned, stay out of smoke.

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

NOTICE OF WARRANTY: DU PONT 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.

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