

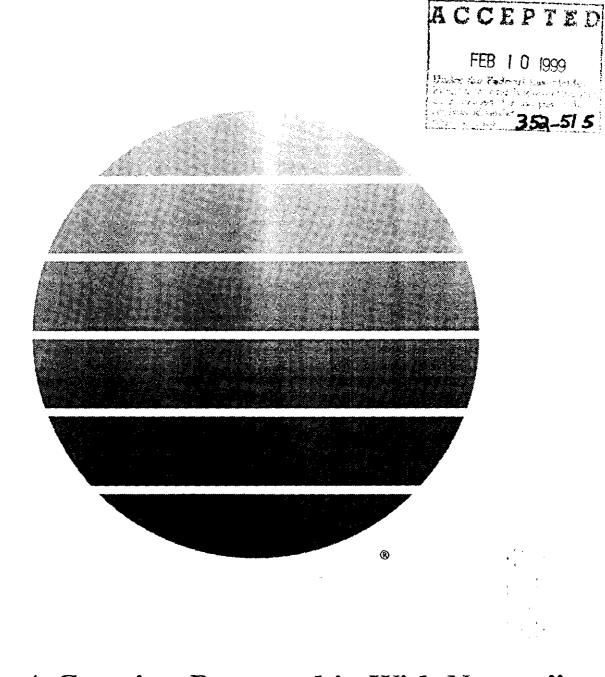
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Asana[®] XL

insecticide

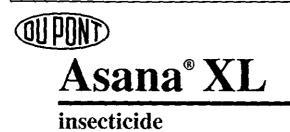


"...... A Growing Partnership With Nature"

RESTRICTED USE PESTICIDE

DUE TO TOXICITY TO FISH AND AQUATIC ORGANISMS.

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.



This product contains 0.66 lbs. Active Ingredient per gallon. 0.66 Emulsible Concentrate

Active Ingredient	By Weight
Esfenvalerate	
(S)-cyano (3-phenoxyphenyl) methyl	
(S)-4-chloro-alpha-(1-methylethyl)	1
benzeneacetate	8.4%
Inert Ingredients*	91.6%
TOTAL	100 %
* CONTAINS XYLENE RANGE AROMATIC	SOLVENT

EPA Reg. No. 352-515 EPA EST No. 5905-AR-1

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KEEP OUT OF REACH OF CHILDREN WARNING AVISO

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

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 for at least 15 minutes 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.

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.

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

PERSONAL PROTECTIVE EQUIPMENT

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category E on an EPA chemical-resistance category selection chart.

Applicators and other handlers must wear:

Long-sleeved shirt and long pants.

- Chemical-resistant gloves, such as Barrier Laminate or Neoprene Rubber or Nitrile Rubber or Viton.
- Protective eyewcar.

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Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

PRECAUTIONARY STATEMENTS (continued on next page)

PRECAUTIONARY STATEMENTS (continued)

USER SAFETY RECOMMENDATIONS

USERS SHOULD: Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

ENGINEERING CONTROL STATEMENTS

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR part 170.240 (d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

ENVIRONMENTAL HAZARDS

This pesticide is extremely toxic to fish and aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift from treated areas. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwaters.

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 if bees are visiting the treatment area.

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.

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.

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 worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

Coveralls.

Chemical-resistant gloves, such as Barrier Laminate or Neoprene Rubber or Nitrile Rubber or Viton. Shoes plus socks. Protective eyewear.

GENERAL INFORMATION

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.

RESISTANCE

Some insects are known to develop resistance to products used repeatedly for control. Because the development of resistance cannot be predicted, the use of this product should conform to resistance management strategies established for the use area. Consult your local or state agricultural authorities for details.

If resistance to this product develops in your area, this product, or other products with a similar mode of action, may not provide adequate control. If poor performance cannot be attributed to improper application or extreme weather conditions, a resistant strain of insect may be present. If you experience difficulty with control and resistance is a reasonable cause, immediately consult your local company representative or agricultural advisor for the best alternative method of control for your area.

INTEGRATED PEST MANAGEMENT

DuPont recommends the use of Integrated Pest Management (IPM) programs to control pests. This product may be used as part of an Integrated Pest Management (IPM) program which can include biological, cultural, and genetic practices aimed at preventing economic pest damage. Application of this product should be based on IPM principles and practices including field scouting or other detection methods, correct target pest identification, population monitoring, and treating when target pest populations reach locally determined action thresholds. Consult your state cooperative extension service, professional consultants or other qualified authorities to determine appropriate action treatment threshold levels for treating specific pest/crop or site systems in your area.

SPRAY PREPARATION

Spray equipment must be clean and free of previous pesticide deposits before applying ASANA XL.

SPRAY TANK CLEANOUT

Immediately following application of ASANA XL, thoroughly clean all mixing and spray equipment. Flush the tank, pump, hoses, and boom with several changes of water after removing nozzle tips and screens (clean these parts separately). Take all necessary precautions when cleaning equipment. Do not clean near wells, water sources or desirable vegetation. Dispose of waste rinse water in accordance with local regulations.

TANK MIXING

Do not tank mix ASANA XL with fungicides containing fentin hydroxide (triphenyltin hydroxide) such as Super Tin' as crop injury may result.

ASANA XL may be tank mixed with the herbicide products listed below when insect populations require control concurrent with the need for weed control. Follow all herbicide and ASANA XL label directions regarding proper usage. A "jar test" for physical compatibility should be conducted before field mixtures are made and applications initiated. 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 that the following mixing directions are followed: 1) Do not apply the combination in a volume of water less than 2 gallons per acre total spray. 2) Always mix the 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.

BLADEX 4L HERBICIDEVELPAR HERBICIDECLASSIC HERBICIDEVELPAR L HERBICIDE

CHEMIGATION

Apply this product only through sprinkler including center pivot, lateral move, end tow, 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.

CROP ROTATION

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ALL ROTATION CROPS MAY BE PLANTED IMMEDI-ATELY FOLLOWING LAST APPLICATION.

SPRAY RECOMMENDATIONS AND PRECAUTIONS

 All aerial and ground application equipment must be properly maintained and calibrated using appropriate carriers.

OBSERVE THE FOLLOWING PRECAUTIONS WHEN SPRAYING IN THE VICINITY OF AQUATIC AREAS SUCH AS LAKES; RESERVOIRS; RIVERS; PERMANENT STREAMS, MARSHES, OR NATURAL PONDS; ESTUARIES AND COMMERCIAL FISH FARM PONDS.

- Do not apply by ground within 25 feet, or by air within 150 feet of lakes; reservoirs; rivers; permanent streams, marshes, or natural ponds; estuaries and commercial fish farm ponds. Increase the buffer zone to 450 feet when ultralow volume (ULV) application is made.
- For aerial applications, the spray boom should be mounted on the aircraft so as to minimize drift caused by wing tip vortices. The minimum practical boom length should be used, and must not exceed 75% of wing span or rotor diameter.
- Use the largest droplet size consistent with good pest control. Formation of very small droplets may be minimized by appropriate nozzle selection, by orientating nozzles away from the air stream as much as possible, and by avoiding excessive spray boom pressure.
- Spray should be released at the lowest height consistent with pest control and flight safety. Applications more than 10 feet above the crop canopy should be avoided.
- Make aerial or ground applications when the wind velocity favors on-target product deposition (approximately 3 to 10 mph). Do not apply when wind velocity exceeds 15 mph. Avoid applications when wind gusts approach 15 mph.
- Risk of exposure to aquatic areas can be reduced by avoiding applications when wind direction is toward the aquatic area.
- Do not cultivate within 10 feet of the aquatic area so as to allow growth of a vegetative filter strip.
- Low humidity and high temperatures increase the evaporation rate of spray droplets and therefore the likelihood of increased spray drift to aquatic areas. Avoid spraying during conditions of low humidity and/or high temperature.
- Do not make aerial or ground applications during temperature inversions. Inversions are characterized by stable air and increasing temperatures with height above the ground. Mist or fog may indicate the presence of an inversion in humid areas. The applicator may detect the presence of an inversion by producing smoke and observing a smoke layer near the ground surface.

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SPECIFIC USES—COTTON

			Applica	ion Rate	Acres t per g		Last Application (days to	
Сгор	Insect		lb ai/acre	fl oz/acre	ASANA XL	A XL	harvest)	
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 Fleahoppers Grasshoppers Whitefly** Cotton Aphid** Pink Bollworm NOTE: For light infestations		0.03 - 0.05	5.8 - 9.6	22 - 13		21	
	above insects Cotton Leaf Perforator		0.03	5.8	22		{	
	Apply as necessary to maintain between applications may be m May be applied in water or now When applying ASANA XL in per acre in Arizona and 5 gal p Do not apply more than 0.5 lb Do not graze livestock on treat ASANA XL can provide contra- label directions for control of fr peak egg deposition to achieve registered in California. Do not make more than a total combination of products) to a include AMBUSH ² insecticid emulsifiable pyrethroid insecti- insecticide/miticide, DECIS ⁶ MUSTANG ³ insecticide, POU	necessary. onvolatile v in an oil ca in a water of per acre in o ai per acre ated fields of tobacco bu e maximum e maximum otton cro le, AMMC icide, CAF insecticid	regetable oils. rrier, apply a total carrier, apply at le California) or 4 g e per season. or feed treated trans- al effect on Heliot idworm; applicati n ovicidal effect. thetic pyrethroid is p in one growing ³ insecticide, AS ² TURE ³ insecticide (e, FURY ³ insecticide)	spray volume of at ast 1 gal per acre by al per acre by groun sh his spp. eggs when a on should be timed to Use on this pest stay applications (of one season. Synthetic p ANA XL insecticide de/miticide, DANIT icide, KARATE ² in	least 1 qt p air (at leas d. pplied acc o correspo ge (egg) is product or yrethroid p c, BA YTHI OL 2.4 EC secticide,	er acrc. t 3 gal ording to nd with not products ROID 4	* Aids in control. ** Aids in suppression.	
	IX COMBINATIONS recautions and restrictions on the	a product l	abel of each pesti	ride in the tank mix				
Tank Mix Combinati		Insect	aver of each pesti-	Application Rate			plication harvest)	
			ollworm and Budworm eggs	ASANA XL (from table) with 2/5 pt/ LANNATE LV	n cotton		21	
LANNATE® Insection Water Soluble Powder			ollworm and Budworm eggs	ASANA XL (from table) with 1/8 lb/ LANNATE			· · · ·	
		then ASA	NA XL, then LA	88, Unite, Triton B NNATE; agitate unt should be determine	il thorough	ily mixed		

SPECIFIC USES - FIELD CROPS

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		Applica	tion Rate	Acres treated per gal of	Last Applicatio (days to			
Crop	Insect	lb ai/acre	fl oz/acre	ASANA XL	harvest)			
Corn (field)†	Cutworm	0.03 - 0.05	5.8 - 9.6	22-13	21			
	Grasshopper	ł		ļ	ļ			
	Corn Earworm			ł				
	Stalk Borer Flea Beetle		ł	ł	}			
	Corn Rootworm (adult control)		{]			
	Chinch Bug		}	}	ł			
	Southwestern Corn Borer Armyworm (True Armyworm)	1	{	{	{			
	Corn Leaf Aphid	}	{	{				
	Oat Bird-Cherry Aphid	<u> </u>	<u> </u>	Ĺ	Į			
	Cutworm, Grasshopper - Apply as control may be applied before, during emerged corn seedlings. Physical con determined prior to tank mixing ASA recommendations and directions rega	g, or after planting a mpatibility with her ANA XL with these	s required to protect picides and/or fertiliz products. Follow all	emerging or ters should be				
	Corn Earworm - First application sl should be made at 3 - 5 day intervals applied if economically damaging po	until silking is com						
	Stalk Borer, Flea Beetle - Applicati corn, before borets enter the plant. M	ion must be made ea fore than one applic	ation may be necess	ary.	}			
	 Adult Corn Rootworm - Apply at the first sign of silk feeding. Reinfestation may occur. Should reinfestation occur, apply as necessary to maintain control. 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 is desired in conjunction with insects controlled by ASANA XL when used alone. 							
	Refer to the ASANA XL and Parathi individual products for controlling th							
	Chinch Bug - Over the top sprays, a not adequate for chinch bug control. the plant through the use of drop noz control migrating chinch bugs.							
		Southwestern Corn Borer - Apply as necessary to maintain control. Two or more applications may be required. For moderate to heavy infestations, higher rates (0.036-0.05 lb ai per acre) are recommended.						
	Armyworm - Apply as necessary to	o maintain control.			1			
	Corn Leaf Aphid, Oat Bird-Cherr aphid population so as to achieve ma contacted by the spray, such as in wh	ximum coverage of	the exposed insects.	Aphids not				
	European Corn Borer	0.04 - 0.05	7.8-9.6	16-13	1			
	First brood: Spray while eggs are in Application by ground equipment is surfaces is essential. This can be acc of the corn plant. Multiple application moderate to heavy populations are pu heavy populations. Proper coverage carrier. Once larvae enter the whorl,							
	in the blackhead stage or starting to l is present, additional sprays may be heavy populations. Good coverage a requires 2 - 3 gallons of carrier by ai	Second brood: 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.						
	ASANA XL Insecticide may be tank on field corn (and seed corn) where s conjunction with insects controlled b							
	Refer to the ASANA XL and Parathi individual products for controlling th	e respective insects		·				
	Western Bean Cutworm	0.015 - 0.03	2.9 - 5.8	44 - 22	4			
	Apply as necessary to maintain contr † Do not apply more than 0.25 lb ai				4 :			
		her write her sease	*1/					

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		Applicat	tion Rate	Acres treated per gal of	Last Application (days to	
Сгор	Insect	lb ai/acre	fl oz/acre	ASANA XL	harvest)	
Corn (seed)	For specific insect control recommend Follow directions carefully.	lations refer to Field	Corn (above).		21	
	Multiple applications and/or shortened insect control. Do not apply more than					
Corn (pop)	For specific insect control recommend Follow directions carefully.	lations refer to Field	Corn (above).		1	
	Multiple applications and/or shortened insect control. Do not apply more than			to insure proper		
Peanuts /	Corn Earworm Red - necked Peanut Worm Potato Leafhopper	0.015 - 0.03	2.9 - 5.8	44 - 22	21	
	Velvetbean Caterpillar Beet Armyworm * Granulate Cutworm Grasshoppers Cutworms	0.03 - 0.05	5.8 - 9.6	22 - 13		
	Lesser Cornstalk Borer* Fall Armyworm**	0.05	9.6	13		
	Apply as necessary to maintain contro apply more than 0.15 lb a.i. per acre p * Aids in control. **Aids in control. For heavy infestation refer to the LANNATE label for use in	er season.				
Sorghum (Grain) f	Sorghum Midge	0.015 - 0.03	2.9 - 5.8	44 - 22	21	
West of Mississippi River and East of Rocky Mountains	Corn Earworm (headworm) Cutworms Chinch Bugs	0.03 - 0.05	5.8 - 9.6	22 - 13		
	Apply as necessary to maintain contro When applying in nonvolatile vegatab Chinch Bug Control: For optimum re					
Soybean i	Mexican Bean Beetle Green Cloverworm Velvetbean Caterpillar Potato Leafhopper Saltmarsh Caterpillar Woolybear Caterpillar	0.015 - 0.03	2.9 - 5.8	44 - 22	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 - 9.6	22 - 13		
	Apply as necessary to maintain contro spray volume of at least 1 qt. Do not feed or graze livestock on trea Do not apply more than 0.2 lb ai per a * Aids in control.	ted fields.	nonvolatile vegeta	ble oils, use a total		

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		Applicat	ion Rate	Acres treated per gal of	Last Application (days to
Сгор	Insect	lb ai/acre	fl oz/acre	ASANA XL	harvest)
Sugar Beets 🗸	Grasshoppers Beet Armyworm* Leafhoppers Cutworms (seedling spray) Saltmarsh Caterpillar Cabbage Looper Beet Webworm	0.03 - 0.05	5.8 - 9.6	22 - 13	21
	Apply as necessary, but do not apply a	more than 0.15 lb ai	acre per season.		
1	Apply with ground or air equipment u (minimum of 2 gal of water per acre).				
·	* Aids in control.				<u> </u>
Sugarcane	Sugarcane Borer	0.03 - 0.05	5.8 - 9.6	22 - 13	21
- <u></u>	Apply as necessary to maintain contro	<u> </u>			
Sunflower	Sunflower Beetle	0.015 - 0.03	2.9 - 5.8	44 - 22	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 - 9.6	22 - 13	
	Apply as necessary to maintain control * Aids in control.	bl. Do not apply mor	e than 0.2 lb. ai/acro	e per season]

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SPECIFIC USES - 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 for 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.

	1	Application Rate				Last
	1	Concentr	ate Spray	Dilute Spray	Acres treated	Application
Сгор	Insect	lb aí /acre	fl oz /acre	fl oz /100 gal	per gal of ASANA XL	(days to harvest)
Crop APPLES	Oblique Banded Leafroller Codling Moth Variegated 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	2.0 - 5.8	26 - 9	21
	Apple Ermine Moth (ID, OR & WA only) Apply as necessary to maintain contro- not apply more than 0.525 lbs. a.i, per but do not apply more than 14.5 fl. oz Plant Bug. Rosy Apple Aphid Control prebloom and post bloom spray timing <u>Apple Ermine Moth</u> -Apply with 2 to to-wet application to insure thorough of hibernacula are found. When using on apple nursery stock, do coverage application which could resu Make first application in the fall after second application 7 to 14 days later. Note: Overwintering larvae do not die	y apply 200 - 60 eatment. al in achieving co sion Services. In 100 gallons of hes where Apple it is difficult to a usually after Oct	00 gals per acre, ontrol. Use water in a spray- Ermine Moth chieve a full			
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	28
	Apply as necessary to maintain contro not apply more than 0.225 lb. a.i. per a treated orchard floors. For dilute spray oz. of ASANA XL per acre per treatm	acre between blo apply 200 - 600 ent.	oom and harvest 0 gals per acre, 1	. Do not feed or but do not apply	graze livestock on more than 14.5 fl.	
PEAR y (Dormant)	Pear Psylla Apply during dormant to prebloom (w per season. Do not graze orchard floor more than 19.2 fl. oz. of ASANA XL	. For dilute spra	y apply 150 - 2			

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		A	pplication Rat	e		Last		
		Concentra	ate Spray	Dilute Spray	Acres treated	Application		
Crop	Insect	- lb ai /acre	ß oz /acre	fl oz /100 gal	per gal of ASANA XL		(days to harvest)	
Crop STONE FRUITS (including apricots, cherries, nectarines, peaches, plums, prune plums,)	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,	0.025 - 0.075	/acre 4.8 - 14.5	71040 gaal 2.0 - 5.8	<u>ASANA XL</u> 26-9	14		
	Stink Bugs) Peach Twig Borer (Dormant) (CA only)	0.04 - 0.075	8 - 14.5	3.1 - 5.8	16-9			
	Apply as necessary to maintain control no more than 0.3 lbs. a.i. per acre per 400 gals per acre, but do not apply ma graze livestock on treated orchard flow <u>Peach Tree Borer, American Plum Bo</u> and scaffold limb spray. Thorough co <u>Peach Twig Borer, Plum Curculio, Or</u> <u>Leafrollers, Black Cherry Aphid, Peri</u> thorough coverage of all aerial portio	season between ore than 14.5 fl. o ors. orer, Lesser Peac verage of trunk a riental Fruit Mot odical Cicada C	bloom and harv oz of ASANA > <u>h Tree Borer Cc</u> and scaffold lim <u>h. Cherry Fruit</u>	est. For dilute sp KL per acre per t ontrol Apply : bs is required. Fly, Western Ch	oray apply 200 - reatment. Do not as directed trunk <u>erry Fruit Fly.</u>			
	Plant Bug Control - Time of applicati spray timings recommended by State Peach Twig Borer (Dormant) Make recommendations on use of oil consul equipment is recommended.	Extension Service application with	ces. an EPA registe	red dormant oil;	for specific			
Almonds	Navel Orangeworm Peach Twig Borer	0.05 - 0.1	9.6 - 19.2	7.3 - 12.8	13.2 - 6.6	21		
	Peach Twig Borer (Dormant) (CA only)				<u>.</u>	ļ		
	Apply as necessary to maintain contro graze livestock on treated orchard floc <u>Peach Twig Borer (Dormant)</u> Make a recommendations on use of oil consul equipment is recommended.	ors. application with	an EPA register	ed dormant oil;	for specific			
Filberts	Filbert Worm Oblique Banded Leafroller	0.05 - 0.1	9.6 - 19.2	7.3 - 12.8	13.2 - 6.6	21		
	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 apply more than 19.2 fl. oz of ASANA XL							

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		Application Rate				Last		
		Concentr	Concentrate Spray Dilute Spray		Acres treated	Application		
Сгор	Insect	lb ai /acre	fl oz /acre	fl oz /100 gai	per gal of ASANA XL	(days to harvest)		
Pecans	Pecan Weevil Hickory Shuckworm Pecan Nut Casebearer Pecan Aphids Pecan Spittlebug Pecan Stem Phylloxera Pecan Leaf Phylloxera Apply as necessary to maintain control	0.025 - 0.075	4.8 - 14.5 graze livestock	2.0 - 5.8	26 - 9 ard floors. Do not	21		
	apply more than 0.3 lbs. a.i. per acre por not apply more than 14.5 fl. oz. of AS/ <u>Phylloxera</u> - Correct timing of spray ar stem phylloxera. Consult local spray re	er season. For di ANA XL per acr oplications is cri	ilute spray apply e per treatment. tical in achievin	y 200 - 600 gals ig optimum cont	per acre, but do			
Walnuts	Walnut Aphid Walnut Husk Fly Codling Moth Navel Orangeworm	0.05 - 0.1	9.6 - 19.2	4.0	13-6	21		
1	Apply as necessary to maintain control. Do not apply more than 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 fl Extension Service.	NOTE: Use of baits in Walnut Husk fly sprays is recommended where endorsed by local Agricultural						
	CONCENTRATE SPRAY: Apply spee ground or 5 gals. of water per acre by a		r acre in no less	than 30 gals. of	water per acre by			

SPECIFIC USES—VEGETABLE CROPS

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Сгор	Insect	Applicat lb ai/acre	ion Rate fl oz/acre	Acres treated per gal of ASANA XL	Last Application (days to harvest)
Artichoke	Artichoke Plume Moth	0.03 - 0.05	5.8 - 9.6	22 - 13	1
	Apply as necessary to maintain contro than 0.15 lb. ai/acre between bud form minimum of 10 gallons per acre by air water to obtain coverage without exce	ation and harvest of and 50 - 200 gallor	an individual fruit.	Apply in a	
Beans, Dry Peas, Dry Lentils	Mexican Bean Beetle Saltmarsh Caterpillar	0.015 - 0.03	2.9 - 5.8	44 - 22	21
	Corn Earworm Potato Leafbopper 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	
	Pea Weevil (ID, OR & WA only) Pea Leaf Weevil (ID, OR & WA only)	0.025 - 0.05	4.8 - 9.6	26 - 13	
	Apply as necessary to maintain control Do not feed or graze livestock on treat * Aids in control.				
	<u>Pea Weevil & Pea Leaf Weevil</u> . Time weevil. For optimum results, apply at weevil populations reach a level of 2 o	bloom prior to detec	ting adult pea weev	vils. Once adult pea	

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		Applicat	ion Rate	Acres treated per gal of	Last Application (days to
Сгор	Insect	lb ai/acre	fl oz/acre	ASANA XL	harvest)
Beans, Snap	Mexican Bean Beetle Saltmarsh Caterpillar	0.015 - 0.03	2.9 - 5.8	44 - 22	3
	Potato Leafhopper European Corn Borer Corn Earworm Cucumber Beetle (adults) Flea Beetle Green Cloverworm Cutworm (seedling spray) Grasshoppers Pea Aphid Leafhopper Cabbage Looper Western Bean Cutworm Velvet Bean Caterpillar Beet Armyworm* Cucumber Beetle Corn Rootworm (adults) Leafminer (Guam only) Apply as necessary to maintain control	0.03 - 0.05 but do not app}y m	5.8 - 9.6 ore than 0.2 lb ai pe	22 - 13	
·	Do not allow livestock to graze treated livestock forage, fodder, or hay. * Aids in control.	bean fields. Do not	harvest treated bear	n vines for	<u></u>
Broccoli, (including Chinese Broccoli)	Imported Cabbageworm	0.015 - 0.03	2.9 - 5.8	44 - 22	3
Cabbage, Cauliflower, Chinese Cabbage (tight headed varieties only)	Cabbage Looper Beet Armyworm * Alfalfa Looper Flea Beetle Grasshoppers Cutworm	0.03 - 0.05	5.8 - 9.6	22 - 13	
	Apply as necessary to maintain control * Aids in control.				
Carrots	Aster Leafhopper Cutworms Leafhoppers	0.03 - 0.05	5.8 - 9.6	22 - 13	7
	Carrot Weevil*	0.05	9.6	13]
	Apply as necessary for control, but do application apply in a minimum of 5 gi * Begin treatment when weevils becom Thorough spray coverage of crown are	als water per acre. ne active.			
Collards	Imported Cabbageworm Cabbage Looper Beet Armyworm * Alfalfa Looper Flea Beetle Grasshopper Cutworm	0.03 - 0.05	5.8 - 9.6	22 - 13	
	Apply as necessary to maintain control more than 0.2 lbs. a.i. per acre per seas water per acre. *Aids in control.				

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		Applicat	ion Rate	Acres treated per gal of	Last Application (days to
Сгор	Insect	lb ai/acre	fl oz/acre	ASANA XL	harvest)
CUCUMBER, MELONS (Cantaloupe, Honeydew Melons, Watermelon, Muskmelon), PUMPKIN, SQUASH (Summer, Winter)	Pickleworm Rindworms Leafhoppers Corn Earworm Cabbage Looper Squash Bug Cutworms (seedling spray) Cucumber Beetle (adults) Grasshoppers Plant Bugs (Lygus Bugs, Stink Bugs) Squash Vine Borer	0.03 - 0.05	5.8 - 9.6	22 - 13	3
	Apply as necessary to maintain control	. Do not apply more	than 0.25 lbs. a.i. p	er acre per season.	<u>╎</u> ┆╶╴╴╴╸╸╸
Eggplant	Colorado Potato Beetle Flea Beetles Corn Earworm Loopers European Corn Borer Apply when insects are observed or wh	0.03 - 0.05	5.8 - 9.6	22 - 13	7
	10 day intervals to achieve control. De				<u> </u>
Kohlrabi (TX only)	Cabbage Looper	0.03 - 0.05	5.8 - 9.6	22 - 13	3
	Apply as necessary to maintain contro	bl. Do not apply mor	re than 0.4 lbs. a.i. p	er acre per season.	
Lentils	See "Beans, Dry"	 	 	<u></u>	<u> </u>
Lettuce, Head AZ, CA, CO, FL, NM & TX ONLY	Cabbage Looper Alfalfa Looper Heliothis spp. Beet Armyworm* Apply as necessary to maintain contro season. * Aids in control.	0.025 - 0.05 ol. Do not apply mor	4.8 - 9.6 The than 0.35 lbs. a.i.	26 - 13 per acre per	7
Mustard Greens	Cabbage Looper Imported Cabbageworm	0.05	9.6	13	7
	Repeat as necessary to maintain o	control. Do not exce	ed 0.2 lbs. a.i. per a	cre per season.]
Peas, Dry	See "Beans, Dry"				
Peas, Green	Pea Aphid Green Cloverworm	0.015 - 0.03	2.9 - 5.8	44 - 22	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	
	Pea Weevil (ID, OR & WA only) Pea Leaf Weevil (ID, OR & WA only)	0.025 - 0.05	4.8 - 9.6	26-15	
	Apply as necessary to maintain contro not feed treated pea vines to livestock. <u>Pea Weevil & Pea Leaf Weevil -</u> Time weevil. For optimum results, apply at weevil populations reach a level of 2 o	e of application is cr bloom prior to detec	itical in achieving c cting adult pea week	ontrol of pea ils. Once adult pea	

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		Applicat	ion Rate	Acres treated per gal of	Last Application (days to
Сгор	Insect	lb ai/acre	fl oz/acre	ASANA XL	harvest)
Pepper	European Corn Borer Beet Armyworm * Flea Beetles Corn Earworm Loopers Colorado Potato Beetle Pepper Weevil* Cucumber Beetle (adults) Southern Armyworm Apply when insects are observed or w 10 day intervals to achieve control. D * Aids in control.		5.8 - 9.6		7
Potato	Potato Psyllid	0.015 - 0.03	2.9 - 5.8	44 - 22	7
	Potato Tuberworm Fleabeetles Tarnished Plant Bug Cabbage Looper Potato Aphid Potato Leafnopper Cucumber Beetle (adult control) Grasshoppers European Corn Borer Beet Armyworm* Western Yellow -	0.03 - 0.05	5.8 - 9.6	22 - 13	
	Striped Armyworm Buckthorn Aphid Cutworms				
	Colorado Potato Bectic	0.03 - 0.05	5.8 - 9.6	22 - 13	
	Colorado Potato Beetle (Long Island, NY only) Apply as necessary to maintain contro * Aids in control.	0.05 A. Do not apply mor	9.6 e than 0.35 lb. a.i. p	er acre per season.	
Radishes	Armyworms Beetles	0.03 - 0.05	5.8,-9.6	22 - 13	7
	Apply as necessary to maintain contro	l. Do not apply more	than 0.1 lb. ai/acre	per season.	<u>}</u>
Sweet Corn †	Corn Earworm Southwestern 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	
	Begin applications either before or at the control. For protection against corn bo maintain control. For additional inform * Aids in control.	rers other than at sill	king time, treat whe	n necessary to	••••
	Stalk Borer Cutworms Corn Rootworms (adults) Grasshoppers Chinch Bugs Armyworm	0.03 - 0.05	5.8 - 9.6	22 - 13	
	Western Bean Cutworm	0.015 - 0.03	2.9 - 5.8	44.+ 22] ''
	For additional information consult dire Corn Leaf Aphid	otions for use under	field corn. 5.8 - 9.6	22 - 13	
	Oat Bird - Cherry Aphid For optimum results, direct the spray is coverage of the exposed insects. Aphi axils, may not be adequately controlle † Do not apply more than 0.5 lb a.i.	ds not contacted by d.	the spray, such as ir		

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Сгор	Insect	Applicat	Application Rate		Last Application (days to
		ib ai/acre	fl oz/acre	ASANA XL	harvest)
Tomato	Tomato Hornworm Tobacco Hornworm	0.015 - 0.03	2.9 - 5.8	44 - 22	1
	Tomato Pinworm Flea Beetle Tomato Fruitworm Colorado Potato Beetle Cutworms Cabbage Looper Southern Armyworm Beet Armyworm * Western Yellow - Striped Armyworm Grasshoppers Whitefly Potato Aphid	0.03 - 0.05	5.8 - 9.6	22 - 13	
	Vegetable Leafminer**	0.05	9,6	13	7
	Apply as necessary to maintain co * Aids in control. ** ASANA XL is not recommend				

SPECIALTY USES

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		Application Rate		Acres treated per gal of	
Crop	Insect	lb ai/acre	fi oz/acre	ASANA XL	
NON - CROPLAND (excluding public land such as forests, parks, or recreational)	Grasshoppers Saltmarsh Caterpillar	0.015 - 0.03	2.9 - 5.8	44 - 22	
	Armyworms Army Cutworms Chinch Bugs	0.03 - 0.05	5.8 - 9.6	22 - 13	
	Spray non - cropland adjacent to tilled areas to control migrating insects (Grasshoppers, Armyworms) which are a threat to crops. Repeat applications as necessary to maintain control. Do not apply more than 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.				

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		Dosage				
Сгор	- Insect	High Volume Sprays		Low Volume Sprays (Mistblower) lb ai/acre		
CHRISTMAS TREE PLANTINGS, CONIFER SEED ORCHARDS, FOREST TREE NURSERIES	Nantucket Pine Tip Moth Spittlebugs Pineleaf Chermid Redheaded Pine Sawfly Balsam Woolly Adelgid Pine Chafer Red Pine Sawfly Pine Conelet Bug European Pine Sawfly Cranberry Girdler (adult control) Pine Needle Midge Balsam Twig Aphid Spruce budworm Apply as necessary to maintain control entire tree.	0.03 - 0.05	5.8 - 9.6	0.03 - 0.05 good coverage of		
	Pales Weevil Northern Pine Weevil	0.03 - 0.05	5,8 - 9.6			
	Apply as necessary to maintain control. Dilute formulation in kerosene (rather than in water), and spray tree stumps to control developing larvae. Use sufficient spray volume to cover stump thoroughly.					
	Webbing Coneworm control. For othe 30 days following female flower closu apply more than 1.6 lbs. ai per acre pe For Seed Chalcid control, apply when for 2 or more sprays, or as needed. Apply approximately 5 - 10 gals of the	Dosage 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. of female flower closure or peak pollen flight for er Coneworms and Seedbugs, apply first application within ure. Repeat application at intervals of 4 weeks but do not er year. 1 all cones are pendant, and repeat at 1 - 2 week intervals e 9.6 fl oz/100 gal dilution per tree with high volume upply 100 gals of the 52 fl oz/100 gal dilution per acre. void contact with open water.				

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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.

PRODUCT 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.

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