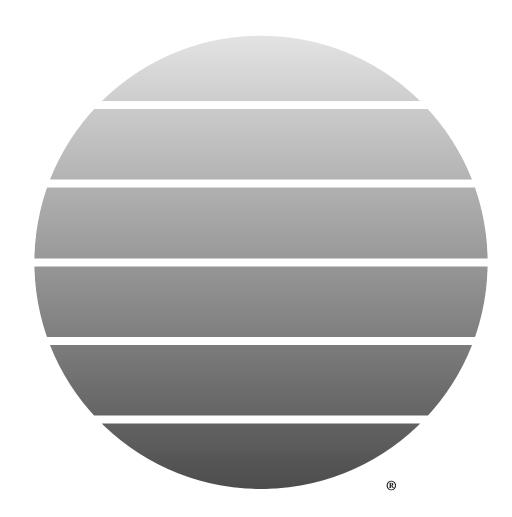


Lannate® SP

insecticide



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

DUPONT LANNATE® SP HIGHLIGHTS

- LANNATE® SP Insecticide is a 90% active ingredient water soluble powder formulation packaged in water soluble bags.
- LANNATE® SP is a broad spectrum insecticide registered in a wide range of field, fruit and vegetable crops.
- LANNATE® SP is particularly active on many Lepidopterous pests as an ovicide, larvicide and adulticide.
- LANNATE® SP is primarily a contact insecticide giving rapid knockdown effects on insects. LANNATE® SP also provides short term effects from the ingestion of treated foliage.
- LANNATE® SP's short residual on treated crops allows for short preharvest intervals.
- Consult label text for complete instructions.
 Always read and follow label directions for use.

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RESTRICTED USE PESTICIDE

Due to High Acute Toxicity to Humans.

For retail sale and use only by Certified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator's certification. Direct supervision for this product requires the certified applicator to review federal and supplemental label instructions with all personnel prior to application, mixing, loading, or repair or cleaning of application equipment.



insecticide

Water Soluble Powder In Water Soluble Bags

Active Ingredient	By Weight
Methomyl	
(S-methyl-N-[(methylcarbamoyl)	
oxy]thioacetimidate)	90%
Inert Ingredients	10%
TOTAL	100%

EPA Reg. No. 352-342

KEEP OUT OF REACH OF CHILDREN

DANGER PELIGRO



POISON

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

This Product is an N-Methyl Carbamate insecticide.

If swallowed: Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching the back of throat with finger. Do not induce vomiting in, or give anything by mouth to an unconscious or convulsing person.

If inhaled: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

If in eyes: Hold eyelids open and flush with a steady gentle stream of water for 15 minutes. Get medical attention.

If on skin: Wash with plenty of soap and water. Get medical attention.

ATROPINE IS AN ANTIDOTE --SEEK MEDICAL ATTENTION AT ONCE IN ALL CASES OF SUSPECTED POISONING.

If warning symptoms appear (see WARNING SYMPTOMS), get medical attention.

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

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER - FATAL IF SWALLOWED. MAY BE FATAL IF INHALED OR ABSORBED THROUGH EYES. HARMFUL IF ABSORBED THROUGH THE SKIN.

Do not get in eyes, on skin, or on clothing. Do not breathe vapors or spray mist. Pilot should not assist in the mixing and loading operation.

("PRECAUTIONARY STATEMENTS" Continued on next page)

PRECAUTIONARY STATEMENTS(continued) HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING SYMPTOMS — Methomyl poisoning produces effects associated with anticholinesterase activity which may include weakness, blurred vision, headache, nausea, abdominal cramps, discomfort in the chest, constriction of pupils, sweating, slow pulse, muscle tremors. If warning symptoms appear, refer to "Statement of Practical Treatment" on front of LANNATE® SP label and seek medical attention at once.

NOTE TO PHYSICIAN

TREATMENT — Atropine sulfate should be used for treatment. Administer repeated doses, 1.2 to 2.0 mg. intravenously every 10 to 30 minutes until full atropinization is achieved. Maintain atropinization until the patient recovers. Artificial respiration or oxygen may be necessary. Allow no further exposure to any cholinesterase inhibitor until recovery is assured.

Do not use 2-PAM for exposure to LANNATE® SP alone. However, for exposure to combinations of LANNATE® SP and organophosphorous insecticides, 2-PAM may be used as required to supplement the atropine sulfate treatment. Do not use morphine.

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

PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers must wear:

Long-sleeved shirt and long pants.

Waterproof gloves.

Shoes plus socks.

Protective eyewear.

For exposures in enclosed areas, a respirator with either an organic vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G), or a NIOSH approved respirator with an organic vapor (OV) cartridge or a canister with any R, P, or HE prefilter.

For exposures outdoors, Dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C), or a NIOSH approved respirator with any R, P, or HE prefilter.

Cleaners and repairers of application equipment must wear:

Long-sleeved shirt and long pants.

Chemical resistant gloves.

Chemical resistant footwear.

Protective eyewear.

Respirator as outlined above.

Chemical resistant apron.

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.

ENGINEERING CONTROL STATEMENTS

Human flaggers must be in enclosed cabs.

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.

The enclosed cabs must be used 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.

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.

Remove personal protective equipment immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and wildlife. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas.

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 contaminate water when disposing of equipment washwaters.

This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment area.

PHYSICAL AND CHEMICAL HAZARDS

Keep container closed. Use with adequate ventilation.

DIRECTIONS FOR USE

It is a violation of federal law to use this product in a manner inconsistent with its 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).

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.

Waterproof gloves.

Shoes plus socks.

Protective eyewear.

Do not apply this product through any type of irrigation system. Do not formulate this product into other End-use products without written permission.

DuPont LANNATE® SP Insecticide should be used only in accordance with recommendations on this label, or in separate published DuPont recommendations available through local dealers.

DuPont will not be responsible for losses or damages resulting from use of this product in any manner not specifically recommended by DuPont. User assumes all risks associated with such non-recommended use. LANNATE® SP is a dry powder to be dissolved in water for application by mechanical ground or air equipment only. Use only in commercial and farm plantings. Not for use in home plantings nor on any commercial crop that is turned into a "U-Pick", "Pick Your Own" or similar operation. Pilot should not assist in the mixing and loading operation.

GENERAL INFORMATION

Scouting — Monitor insect populations to determine whether or not there is a need for application of LANNATE® SP based on locally determined economic thresholds. More than one treatment of LANNATE® SP may be required to control a population of pests.

Insect Predators — LANNATE® SP at rates of 1/8 to 1/4 lb. per acre helps conserve certain beneficials, including big-eyed bugs, damsel bugs, flower bugs and spiders in cotton and soybeans. While these beneficials cannot be relied upon to control pests, they are of potential value and should be monitored along with pests in pest management programs on these crops.

Resistance — Some insects are known to develop resistance to products used repeatedly for control. When this occurs, the recommended dosages fail to suppress the pest population below the economic threshold. Because the development of resistance cannot be predicted, the use of this product should conform to resistance management strategies established for the use area. These strategies may include incorporation of cultural and biological control practices, alteration of active classes of insecticides on succeeding generations and targeting the most

susceptible life stage. Consult your local agricultural authorities for details

Compatibility — Since formulations may be changed and new ones introduced, it is recommended that users premix a small quantity of a desired tank mix and observe for possible adverse changes (settling out, flocculation, etc.). Avoid mixtures of several materials and very concentrated spray mixtures.

Do not use LANNATE® SP with Bordeaux mixture, "Du Ter" (triphenyltin hydroxide), lime sulfur, "Rayplex" iron nor in highly alkaline solutions. Use mildly alkaline mixtures immediately after mixing to prevent loss of insecticidal activity.

Tank-mix solutions containing Boron may affect solubility of the water soluble film. When using Boron containing solutions in a tank-mix, follow these procedures:

- Add the correct amount of LANNATE® SP water soluble packets first
- Be sure the soluble packets are completely dissolved
- Introduce Boron containing solutions last

If the above procedure cannot be followed, and Boron is an essential part of the spray mix, substitute LANNATE® LV formulation for the water soluble packets.

INTEGRATED PEST MANAGEMENT

This product should 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 systems in your area

SPRAY PREPARATION

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

Fill spray tank 1/4 to 1/2 full of water. Add LANNATE® SP directly to spray tank. Do not open, rip, tear, cut or perforate the inner water soluble bag. Mix thoroughly to fully dissolve the insecticide; once dissolved continued agitation is not required. Use mechanical or hydraulic means; do not use air agitation. Be sure the soluble packet is completely dissolved before adding any other ingredients. Spray mix should not be stored overnight in spray tank.

APPLICATION

Apply at the recommended rates when insect populations reach locally determined economic thresholds. Consult the cooperative extension service, professional consultants or other qualified authorities to determine appropriate threshold levels for treatment in your area.

Follow-up treatments of LANNATE® SP should be applied, as needed, to keep pest populations within threshold limits. On most crops, LANNATE® SP should be applied at 5 to 7 day intervals to maintain control. On the following crops, the minimum interval between treatments is: Sweet corn - 1 day; Broccoli, brussels sprouts, cabbage, cauliflower, lettuce - 2 days; Cotton, peas - 3 days; Apples, bulb onions - 7 days. Use sufficient water to obtain thorough, uniform coverage. Since LANNATE® SP is a fast acting contact insecticide, best results follow direct spraying of the target insect.

For aerial, use a minimum of 2 gals. per acre (gpa) except 10 gpa for grapes, nectarines and strawberries; 15 gpa for oranges, lemons, grapefruit, tangelos and tangerines.

For certain crops a minimum of 1 gallon per acre may be used providing the following conditions are met:

- equipment is adjusted to distribute spray uniformly over the spray swath,
- wind conditions and other factors such as temperature and humidity are such that the spray is delivered to the target area,
- local regulations do not prohibit low-volume aerial sprays,
- use rates are applied as directed on the package label or supplemental labeling for the following crops:

Alfalfa	Celery	Peas (succulent)
Anise	Collards	Peppermint
Asparagus	Corn	Peppers
Barley	Cotton	Potato
Beans	Cucumber	Rye
Broccoli	Lettuce	Soybean
Brussels sprouts	Melons	Spinach
Cabbage	Mint	Sugar beet
Carrot	Oats	Summer Squash
Cauliflower	Peanuts	Wheat

Apply the low rates on small plants, small insects and light infestations of insects. Use intermediate rates on large insects and heavier infestations of insects. Use 1 to 3 applications of the highest recommended rate for controlling severe infestations. Thereafter, use the lowest rate possible to maintain control.

SPRAY DRIFT MANAGEMENT

The interaction of many equipment and weather-related factors determines the potential for spray drift. The applicator is responsible for considering all these factors when making application decisions. AVOIDING SPRAY DRIFT IS THE RESPONSIBILITY OF THE APPLICATOR.

IMPORTANCE OF DROPLET SIZE

The most effective way to reduce drift potential is to apply large droplets (>150 - 200 microns). The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. The presence of sensitive species nearby, the environmental conditions, and pest pressure may affect how an applicator balances drift control and coverage. APPLYING LARGER DROPLETS REDUCES DRIFT POTENTIAL, BUT WILL NOT PREVENT DRIFT IF APPLICATIONS ARE MADE IMPROPERLY OR UNDER UNFAVORABLE ENVIRONMENTAL CONDITIONS! See Wind, Temperature and Humidity, and Temperature **Inversions** sections of this label.

Controlling Droplet Size - General Techniques

- Volume Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- Pressure Use the lower spray pressures recommended for the nozzle. Higher pressure reduces droplet size and does not improve canopy penetration. WHEN HIGHER FLOW RATES ARE NEEĎĖD, USE A HIGHER-CAPACITY NOZZLE INSTEAD OF INCREASING PRESSURE.
- **Nozzle Type** Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles.

Controlling Droplet Size - Aircraft

- Number of Nozzles Use the minimum number of nozzles with the highest flow rate that provide uniform coverage.

 Nozzle Orientation Orienting nozzles so that the spray is emitted backwards, parallel to the airstream will produce larger depolet they other crientations.
- droplets than other orientations.

 Nozzle Type Solid stream nozzles (such as disc and core with swirl plate removed) oriented straight back produce larger droplets than other nozzle types.
- **Boom Length** The boom length should not exceed 3/4 of the wing or rotor length - longer booms increase drift potential.
- **Application Height** Application more than 10 ft above the canopy increases the potential for spray drift.

BOOM HEIGHT

Setting the boom at the lowest labeled height (if specified) which provides uniform coverage reduces the exposure of droplets to evaporation and wind. For ground equipment, the boom should remain level with the crop and have minimal bounce.

WIND

Drift potential increases at wind speeds of less than 3 mph (due to inversion potential) or more than 10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given wind speed. AVOID GUSTY OR WINDLESS CÓNDITIONS.

Note: Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray

TEMPERATURE AND HUMIDITY

When making applications in hot and dry conditions, set up equipment to produce larger droplets to reduce effects of evaporation.

TEMPERATURE INVERSIONS

Drift potential is high during a temperature inversion. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain close to the ground and move laterally in a concentrated cloud. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

SHIELDED SPRAYERS

Shielding the boom or individual nozzles can reduce the effects of wind. However, it is the responsibility of the applicator to verify that the shields are preventing drift and not interfering with uniform deposition of the product.

AIR ASSISTED (AIR BLAST) FIELD CROP SPRAYERS

Air assisted field crop sprayers carry droplets to the target via a downward directed air stream. Some may reduce the potential for drift, but if a sprayer is unsuitable for the application and/or set up improperly, high drift potential can result. It is the responsibility of the applicator to determine that a sprayer is suitable for the intended application, is configured properly, and that drift is not occurring. **Note:** Air assisted field sprayers can affect product performance by affecting spray coverage and canopy penetration. Consult the application equipment section of this label to determine if use of an air assisted sprayer is recommended.

AIR ASSISTED (AIR BLAST) TREE AND VINE SPRAYERS

Air assisted tree and vine sprayers carry droplets into the canopy of trees and vines via a radially or laterally directed air stream. These sprayers are not suitable for applying herbicides.

In addition to the general drift management principles already described, the following specific practices will further reduce the potential for drift.:

- Adjust deflectors and aiming devices so that spray is only directed into the canopy.
- Block off upward pointed nozzles when there is no overhanging
- Use only enough air volume to penetrate the canopy and provide good coverage.
- Do not allow spray to go beyond the edge of the cultivated area. Spray the outside row only from outside the planting.

		Rate	Last Applica	tion - Days	
		LANNATE® SP		To Livestock	
Crops	Insects	Lbs. Per Acre	To Harvest	Grazing/Feeding	REI
Alfalfa	Pea Aphid Lygus Bugs Blotch Leafminer Aphids Egyptian Alfalfa Weevil Larvae Loopers Beet Armyworm	1/2 -1		7	48 hrs
	Fall Armyworm	1/2			
	Alfalfa Weevil Larvae	1			
	Alfalfa Caterpillar Yellowstriped Armyworm WesternYellowstriped Armyworm Armyworm	1/4-1/2			
	Variegated Cutworm	1/4-1			
	Do not apply to dormant or sem Do not apply more than 3.6 lbs Do not make more than 10 app	a.i./acre/crop.	n. daily temp.is 50° F.o	r lower.	
Anise (Fennel)	Cabbage Looper	1	7		48 hrs
	Beet Armyworm	1/2-1			
	Do not apply more than 4.5 lbs	-			
	Do not make more than 10 app	plications/crop.		T	
Apple Ground application only	Apple Aphid Rosy Apple Aphid Tufted Apple Budmoth Green Fruitworm Tarnished Plant Bug Codling Moth (10-12 day intervals)	1/2-1 *	14	10	72 hrs
	Leafrollers (Fruittree, Obliquebanded, Redbanded, Variegated) Lesser Appleworm White Apple Leafhopper Tentiform Leafminer Cutworm	1 *			
	Do not use on Early Macintosh of Do not apply more than 4.5 lbs Do not make more than 5 appli * Apply in a minimum of 50 gal	a.i./acre /crop. ications/crop.			
Aspareaus	11.7	1/2-1	1		48 hrs
Asparagus	Beet Armyworm, Western Yellowstriped Armyworm Asparagus Beetle Spotted Asparagus Beetle White Cutworm Redbacked Cutworm Variegated Cutworm	1/2-1			40 Mrs
	Do not apply more than 4.5 lbs Do not make more than 8 appli	*			
Avocado	Western Avocado Leafroller Omnivorous Looper	1/2-1	1	10	48 hrs
	Do not apply more than 0.9 lbs Do not make more than 2applic	-			
Barley	Armyworms Cereal Leaf Beetle Aphilds	1/4-1/2	7	10	48 hrs
	Do not apply more than 1.8 lbs Do not make more than 4 appli	-			

		Rate	Last Applica	tion - Days	
		LANNATE® SP		To Livestock	1
Crops	Insects	Lbs. Per Acre	To Harvest	Grazing/Feeding	REI
Beans (Succulent) Including: Kidney beans	Leafhopper Mexican Bean Beetle	1/4-1	Succulent Beans 1/4-1/2 lb1, over 1/2 lb3;	3 Vines 7 Hay	48 hrs
Lima beans Mung beans	Fall Armyworm Variegated Cutworm	1/2			
Navy beans Pinto beans Snap beans Wax Beans Broad beans Fava beans Asparagas beans Blackeyed peas Cowpeas	Beet Armyworm Corn Earworm Saltmarsh Caterpillar, Yellowstriped Armyworm Western Yellowstriped Armyworm, Lygus Bugs Thrips Aphids Loopers*	1/2-1			
	European Corn Borer (Ovicide & Larvicide)Initiate when moth flights first appear and-continue preventive treatments at 3-4 day intervals to control eggs and larvae				
	Spotted Cucumber Beetle	1/4-1/2			_
	Succulent Beans - Do not apply more than 4.5 lbs Do not make more than 10 app * Not recommended in AL & GA.				
Beans (Dry)	(Same as Succulent Beans)	(Same as Succulent Beans)	14 *	14 Vines * 14 Hay *	48 hrs
(Same as Succulent Beans)	Do not apply more than 4.5 lbs Do not make more than 10 app * Do not apply within 14 days o	lication/crop.			
Beets (Table)	Imported Cabbageworm	1/4-1	0 - roots		48 hrs
	Beet Armyworm Cabbage Looper Diamondback Moth	1/2-1	14 - tops		
	Cucumber Beetle Variegated Cutworm	1/2			
	Do not apply more than 3.6lbs Do not make more than 8applic	a.i./acre/crop. cations/crop.			
Bermudagrass pasture	Fall Armyworm, Armyworm Striped Grass Looper	1/4-1		7 Forage 3 Dehydrated Hay	48 hrs
	Do not apply more than 0.9 lbs Do not make more than 4 appli				
Blueberries	Blueberry Leafhopper Aphids Tussock Moth Weevil Sharp-Nosed Leafhopper	1/2	3		48 hrs
	Cranberry Fruitworm* Cherry Fruitworm*	1/2-1			
	Flea Beetle (larvae) Sawfly (larvae) Blueberry Leafroller	1			
	Blueberry Maggot	1/4-1/2			1
	Do not apply during bloom. Do not apply more than 3.6 lbs Do not make more than 4 appli * For ground use only.				

		Rate	Last Appli	cation - Days	
		LANNATE® SP		To Livestock	
Crops	Insects	Lbs. Per Acre	To Harvest	Grazing/Feeding	REI
Broccoli	Loopers	1/2-1**	3		48 hrs
	Diamondback Moth				
	Imp. Cabbageworm,	1/4-1**			4
	Do not apply more than 7.2 lbs Do not make more than 10 app				
	** Add a wetting agent to impro				
Brussels Sprouts	Loopers	1/2-1**	3		48 hrs
	Imp. Cabbageworm,				
	Diamondback Moth	1/0**			
	Variegated Cutworm	1/2**			-
	Do not apply more than 5.4 lbs Do not make more than 10 app	=			
	** Add a wetting agent to impro				
Cabbage	Loopers	1/2-1**	1		48 hrs
	Diamondback Moth				
	Imp. Cabbageworm,	1/4-1**			
	Fall Armyworm	1/2**			
	Variegated Cutworm	-:/			-
	Do not apply more than 9.0 lbs Do not make more than 15 app	=			
	* Not recommended in AL & GA.	-			
	** Add a wetting agent to impro	ove coverage			
Carrot	Beet Armyworm	1/3-1	1		48 hrs
	Aster Leafhopper	1/2-1			
	Armyworms	1/4-1/2			
	Variegated Cutworm	• , ,			-
	Do not apply more than 6.3 lbs Do not make more than 10 app				
Cauliflower	Imp. Cabbageworm	1/4-1**	3		48 hrs
	Loopers	1/2-1**			
	Diamondback Moth				
	Variegated Cutworm	1/2**			4
	Do not apply more than 9.0lbs Do not make more than 10appl				
	** Add a wetting agent to impro				
Celery	Beet Armyworm	1/2-1	7		48 hrs
-	Aster Leafhopper				
	Loopers	1			
	Variegated Cutworm	1/2			
	Armyworms	1/4-1/2			_
	Do not apply more than 9.0 lbs Do not make more than 10 app				
Chicary	1		9.0		10 1
Chicory	Beet Armyworm Variegated Cutworm	1/2-1	80		48 hrs
	Leafhoppers				_
	Do not apply more than 1.8 lbs				
	Do not make more than 2 appli	cations/crop.			
Chinese Cabbage	Loopers Beet Armyworm	1/2-1*	10		48 hrs
	Do not apply more than 8.1 lbs.				
	Do not make more than 10 app		rallone by air		
	* Minimum of 25 gallons water	per acre by ground or 5 g	gamons by air.		

		Rate	Last Application - Days		
		LANNATE® SP		To Livestock	
Crops	Insects	Lbs. Per Acre	To Harvest	Grazing/Feeding	REI
Collards (Fresh market only)	Loopers* Diamondback Moth Variegated Cutworm	1/2	10		48 hrs
	Imported Cabbageworm Beet Armyworm	1/2-1			
	Do not apply when temp. is less Do not apply when crop is less th Do not apply more than 5.4 lbs. Do not make more than 8 applic * Not recommended in AL & GA.	nan 10" tall. a.i./acre/crop.			
Corn (Field & Popcorn)	Earworm, Armyworm Fall Armyworm Corn Rootworm (adult beetles) Flea Beetles Picnic Beetles Aphids	1/4-1/2	21 Ears	3 Forage 21 Fodder	48 hrs
	Variegated Cutworm, Beet Armyworm	1/2			
	Do not apply more than 2.25 lb Do not make more than 10 app	-			
Corn (Sweet)	EarwormWhorl as needed	1/3-1/2	0 Ears	3 Forage	48 hrs
	Fall Armyworm Armyworm Earworm,-(Ovicide/Larvicide) European Corn Borer -Ears 1-3 days or as needed Corn Rootworm (adult beetles) Flea Beetles Picnic Beetles Aphids	1/4-1/2			
	Variegated Cutworm Beet Armyworm	1/2			
	Certain hybrid varieties of sweet crop safety before full scale spra Do not apply more than 7.2 lbs Do not make more than 28 app	ying. a.i./acre/crop.	methomyl injury.treat a	small area to determine	
Cotton U.S	Ovicide/Larvicide - Bollworm, Tobacco Budworm (Initiate schedule when significant numbers of eggs are present Continue at 3 to 5-day intervals while eggs are present and larval control is adequate. If significant larvae survive, use higher rates below.) Lygus Bugs (adults and nymphs) start treatment on low level population for suppression.	1/8-1/4 (see Predators)	15	Do not graze or feed	72 hrs
	Cotton Leafworm	1/4-1/2]		
	Cotton Fleahopper (as needed)	1/8-1/4			
East of Rockies	Aphids, Thrips (Early Season)	1/4	-		
only	Bollworm, Tobacco Budworm, Beet Armyworm, Cotton Leafperforator, Fall Armyworm Lygus Bugs (adults and nymphs) use as occasional spray in regular schedule but	1/2			
(continued on next page)	1 -				

		Rate	Last Applic	ation - Days	
		LANNATE® SP		To Livestock	1
Crops	Insects	Lbs. Per Acre	To Harvest	Grazing/Feeding	REI
Cotton (continued) East of Rockies only	(Late Season) Bollworm, Tobacco Budworm, Beet Armyworm, Cotton Leafperforator, Fall Armyworm, Lygus Bugs (adult and nymphs) up to 3 applications at 3-5 day intervals after desired boll load set on plants.	1/2	15	Do not graze or feed	72 hrs
Texas	Cotton Aphid	1/4-2/3			
West of Rockies only	Larvicide for worms Bollworm, Fall Armyworm, Tobacco Budworm, Lygus Bugs	1/2-3/4			
	Beet Armyworm	1/3-1/2			
	Cotton Leafperforator	1/3-3/4			_
	Do not apply more than 1.8 lbs Do not make more than 8 applic Use may redden cotton if excessiv	cations/crop .	th other insecticides.		
Cucumber	Loopers Tobacco Budworm Beet Armyworm, Yellowstriped Armyworm Granulate Cutworm Flea Beetles Cucumber Beetles Melon Aphid Melonworm Pickleworm	1/2-1	1/2 lb1 Over 1/2 lb3		48 hrs
	Fall Armyworm Variegated Cutworm	1/2			
	Do not apply more than 5.4 lbs Do not make more than 12 appl				
Eggplant	Green Peach Aphid	1/4-1	5		48 hrs
	Tomato Pinworm (Ground Application Only) Beet Armyworm Corn Earworm	1/2-1			
	Do not apply more than 4.5 lbs Do not make more than 10 app				
Endive, Escarole	Beet Armyworm	1/2-1	10		48 hrs
	Do not apply more than 4.5 lbs Do not make more than 8 appli	-			
Garlic	Beet Armyworm	1/2**	7		48 hrs
	Do not apply more than 3.6 lbs Do not make more than 6 appli ** Add a wetting agent to impro	ications/crop.			
Grapefruit CA, AZ & HI only	Thrips Fruittree Leafroller Orange Tortrix Western Tussock Moth Beet Armyworm	1/2-1	1	10	72 hrs
	Do not apply more than 2.7 lbs Do not make more than 4 appli				

		Rate	Last Applic	ation - Days	
		LANNATE® SP		To Livestock	1
Crops	Insects	Lbs. Per Acre	To Harvest	Grazing/Feeding	REI
Grapes East of Rockies only	Grape Berry Moth (apply pre- & post-bloom & repeat at 10-14 day intervals or as needed) Leafhoppers	1/2-1	1 Fresh & Raisin 14 Wine Grapes		7 days
U.S	Omniverous Leafroller, Grape Leaffolder Orange Tortrix				
West of Rockies only	Saltmarsh Caterpillar Leafhoppers*				
	Climbing Cutworm (Treat infestation and repeat at 7-14 day intervals as needed)	1			
CA only	Grape Leaf Skeletonizer*	1/2-1]		
	Thrips	1/2-1			
	Do not apply more than 4.5 lbs Do not make more than 5 appli * Leaf hoppers & Grape leaf sk	cations/crop.	cation Only).		
Horseradish Ground application only	Aphids Thrips	1/2	65		48 hrs
	Do not apply more than 1.8 lbs Do not make more than 4 appli				
Leafy Green Vegetables: Beet (tops) Dandelions, Kale,	Beet Armyworm Cabbage Looper* Diamondback Moth Imported Cabbageworm	1/2-1	10		48 hrs
Mustard Greens, Parsley, Swiss Chard, Turnip Greens	Do not apply more than 3.6lbs Do not make more than 8 applic * Not recommended in AL & GA.				
Lemon CA, AZ & HI only	Thrips Western Tussock Moth Orange Tortrix Beet Armyworm	1/2-1	1	10	72 hrs
	Do not apply more than 2.7 lbs Do not make more than 4 appli				
Lentils	Western Yellowstriped Armyworm	1/2-1	21	3 - Forage 7 - Hay	48 hrs
	Do not apply more than 0.9 lbs Do not make more than 2 appli				
Lettuce	Alfalfa Looper	1/4-1	1/4-1/2 lb7		48 hrs
(head varieties and Leaf varieties)	Thrips Aphids Beet Armyworm Cabbage Looper Corn Earworm	1/2-1	over 1/2 lb10		
	Aster Leafhopper				
	Variegated Cutworm	1/2			
	Lettuce(head varieties) Do not apply more than 9.0 lbs Do not make more than 15 app Lettuce(leaf varieties) Do not apply more than 3.6 lbs Do not make more than 8 appli	a.i./acre/crop.			

		Rate	Last Applica	tion - Days	
		LANNATE® SP		To Livestock	1
Crops	Insects	Lbs. Per Acre	To Harvest	Grazing/Feeding	REI
Melons Including: Canteloupe Casaba Santa Claus melon Crenshaw melon Honeydew melon Honey balls Persian melon Golden Pershaw	Loopers Tobacco Budworm Beet Armyworm Yellowstriped Armyworm Granulate Cutworm Flea Beetles Cucumber Beetles Melon Aphid Melonworm Pickleworm	1/2-1	1/2 lb1 day over 1/2 lb3 days		48 hrs
melon Mango melon	Fall Armyworm Variegated Cutworm	1/2			
Pineapple melon Snake melon Watermelon	Do not apply more than 5.4 lbs Do not make more than 12 app	-			
Mint (Peppermint,	Variegated Cutworm Alfalfa Looper	1	14		48 hrs
Spearmint)	Flea Beetles Do not apply more than 1.8 lbs Do not make more than 4 appli				
Nectarine	Thrips	1/2-1	1	10	72 hrs
CA & AZ only	Do not apply more than 2.7 lbs Do not make more than 3 appli	•			
Oats	Armyworms Cereal Leaf Beetle Aphids	1/4-1/2	7	10	48 hrs
	Do not apply more than 1.8 lbs Do not make more than 4 appli	-			
Onions (Green & Dry Bulb)	Beet Armyworm Thrips Variegated Cutworm Black Cutworm	1/2-1** 1**	7 Green and Dry Onions		48 hrs
	Onions, green Do not apply more than 5.4 lbs Do not make more than 8 appli Onions, dry bulb Do not apply more than 3.6lbs Do not make more than 8applic ** Add a wetting agent to impro	a.i./acre/crop.			
Oranges CA, AZ & HI only	Thrips Western Tussock Moth Orange Tortrix Fruittree Leafroller Beet Armyworm Citrus Cutworm	1/2-1	1	10	72 hrs
	Do not apply more than 2.7 lbs Do not make more than 4 appli	cations/crop.		<u> </u>	
Peaches	Catfacing Insects (Plant Bugs and Stink Bugs) - begin at petal fall and continue in cover sprays at 7-to 10-day intervals Oriental Fruit Moth* -begin at petalfall; use trapping devices and frequent field inspection to determine need for treatment. Continue treatment in cover sprays and alternate withresidual- type insecticides registered for this use. Green Peach Aphid Do not apply more than 5.4 lbs	1-2 lb (or 1/4-1/2 lb per 100 gal up to 400 gal per acre)	4	10	4 days
	Do not apply more than 5.4 lbs Do not make more than 6 appli * Oriental Fruit Moth(Ground Ap	cations/crop.			

		Rate	Last Application - Days		
		LANNATE® SP		To Livestock	
Crops	Insects	Lbs. Per Acre	To Harvest	Grazing/Feeding	REI
Peanuts	Corn Earworm* Potato Leafhopper	1/4-1	21	Do not feed treated vines	48 hrs
	Fall Armyworm	1/4-1/2		VIIICS	
	Beet Armyworm	3/8-1			
	Green Cloverworm	1/2-1			
	Velvetbean Caterpillar	·			
	Cabbage Looper Soybean Looper **				
	Thrips				
	Granulate Cutworm				
	Do not apply more than 3.6 lbs				
	Do not make more than 8 appl * LANNATE® SP has ovicidal an		rn earworm		
	**Soybean Looper is difficult to o			2" long. Use higher rate	
	for severe infestations				
Pears	Green Fruitworm	1/2-1 *	7	10	48 hrs
Northeast only	Obliquebanded Leafroller				
	Do not apply more than 1.8 lbs	a i /acre/crop			-
	Do not make more than 2 appl				
	* Apply in a minimum of 50 gal	lons of water per acre.			
Peas (succulent)	Armyworm	1/4-1/2	1	5 Forage	48 hrs
Including: Pigeon peas	Green Cloverworm	1/2 1		14 Hay	
Chick peas	Alfalfa Looper Cabbage Looper*	1/2-1			
Garbanzo beans	Pea Aphid				
Dwarf peas Garden peas	Beet Armyworm Saltmarsh Caterpillar				
Green peas	Variegated Cutworm				
English Peas	Alfalfa Caterpillar	1/4-1			
Field peas	Do not apply more than 2.7 lbs			•	
Edible pod peas	Do not make more than 6 appl * Not recommended in AL & GA.				
Pecans	Aphids	1/2-1	30	10	48 hrs
Southeast only	1.5.1.0	1,2 1			10 1110
	Do not apply more than 6.3 lbs	a.i./acre/crop .			
	Do not make more than 7 appl	ications/crop.			
Peppers	Fall Armyworm	1/2	3		48 hrs
Including:					
Bell Hot					
Pimentos	Loopers	1/2-1			
Sweet	Beet Armyworm				
	Green Peach Aphid				
	Armyworm Variegated Cutworm	1/4-1/2			
	European Corn Borer	1			
	Do not apply more than 4.05 lbs			<u> </u>	-
	Do not make more than 10 app				
Pomegranates	Omniverous Leafroller	1	14		48 hrs
	Do not apply more than 1.8 lbs				
D . 4 . 4 .	Do not make more than 2 appl		,	-	40. 1
Potato	Tuberworm Loopers	1/2-1	6		48 hrs
	Aphids				
	Beet Armyworm				
	Leafhoppers	1/2			
	Variegated Cutworm Fall Armyworm	1/2			
	Flea Beetles				_
	Do not apply more than 4.5 lbs				
	Do not make more than 10 app	plications/crop.			

		Rate	Last Application - Days			
		LANNATE® SP		To Livestock		
Crops	Insects	Lbs. Per Acre	To Harvest	Grazing/Feeding	REI	
Rye	Armyworms Cereal Leaf Beetle	1/4-1/2	7	10	48 hrs	
	Aphids					
	Do not apply more than 1.8 lbs	a.i./acre/crop .				
	Do not make more than 4 appli-	cations/crop.				
Sorghum	Sorghum Webworm	1/2*	14	14	48 hrs	
(except Sweet	Sorghum Midge	1/4-1/2*				
Sorghum)	Apply when 50% bloom and 3-5 days later if needed .					
	Fall Armyworm (Budworm)					
	Beet Armyworm					
	Corn Earworm Armyworm					
	Do not apply more than 0.9 lbs	a.i./acre/crop .			-	
	Do not make more than 2 applied	cation/crop.				
	* Minimum of 10 gallons per acre		s per acre by air.	1		
Soybeans	Green Cloverworm Velvet-bean Caterpillar	1/8-1/4 (see Predators)	14	Under 1/2 lb 3 Forage	48 hrs	
	Mexican Bean Beetle	(see Fledators)		- 7 Hay		
	Corn Earworm			,		
	Light to moderate infestations			1/2 - 11b		
	Moderate to severe infestations	1/4-1/2		- 10 Forage		
	-		4	- 12 Hay		
	Beet Armyworm Salt Marsh Caterpillar	1/4-3/8				
	Bean Leaf Beetle					
	Fall Armyworm					
	Thrips Silver Spotted Skipper					
	Light to moderate infestations					
	Moderate to severe infestations	3/8-1/2	1			
	Do not apply more than 1.35 lbs	Do not apply more than 1.35 lbs a.i./acre/crop .				
	Do not make more than 3 appli-	cations/crop.				
Spinach	Alfalfa Loopers	1/2-1	7		48 hrs	
	Cabbage Looper Beet Armyworm					
	Fall Armyworm, Variegated	1/2	-			
	Cutworm	1 / 2				
	Do not apply when min. daily ten	np.is 32° F. or lower.				
	Do not apply to seedlings less tha	n 3" diameter .				
	Do not apply more than 3.6 lbs Do not make more than 8 applie					
Strawberry	Beet Armyworm	1/2-1	3-Fresh Fruit		48 hrs	
bera w berry	Thrips	1,2 1	10-Processing Fruit		10 1113	
	Aphids		_			
	Lygus Bugs Omnivorous Leaf Tiers	1				
	Armyworms	3/4-1	-			
	Do not apply more than 4.5 lbs				-	
	Do not make more than 10 app					
Sugar Beet	Beet Webworm	1/4-1	7	30 Tops	48 hrs	
	Flea Beetles					
	Carrion Beetles Beet Armyworm					
	Aphids					
	Western Yellowstriped					
	Armyworm	1/0	4			
	Variegated Cutworm	1/2			-	
	Do not apply more than 4.5 lbs	a.i./acre/crop .			1	

		Rate	Last Application - Days		
		LANNATE® SP		To Livestock	
Crops	Insects	Lbs. Per Acre	To Harvest	Grazing/Feeding	REI
Summer Squash* Including: Crookneck squash Straightneck squash Scallop squash Vegetable marrow Spaghetti squash Hyotan Cucuzza Hechima Chinese okra	Loopers Tobacco Budworm Beet Armyworm Yellowstriped Armyworm Granulate Cutworm Flea Beetles Cucumber Beetles Melon Aphid Melonworm Pickleworm Fall Armyworm	1/2-1	1/2 lb1 day over 1/2 lb3 days		48 hrs
Bitter melon Balsam pear Balsam apple Chinese Cucumber	Do not apply more than 5.4 lbs a.i./acre/crop. Do not make more than 12 applications/crop. * Fruit of the Gourd (Cucurbit accae) family that are consumed when immature, 100% of the fruit is edible cooked or raw, once picked cannot be stored, has a soft rind which is easily penetrated, and if seeds were harvested they would not germinate.				
Tangelo, Tangerine CA, AZ & HI only	Thrips Western Tussock Moth Orange Tortrix, Beet Armyworm	1/2-1	1	10	72 hrs
	Do not apply more than 2.7 lbs a.i./acre/crop . Do not make more than 4 applications/crop.				
Tobacco (Except shade)	Flea Beetle Hornworm	1/4-1/2	5 Flue cured 14 Air or fire cured		48 hrs
	Loopers Aphids Tobacco Budworm Fall Armyworm	1/2			
	Do not apply more than 2.25 lbs Do not make more than 5 appli	-			
Tomato (Including Tomatillos*)	Tomato Fruitworm Aphids Hornworm Loopers Beet Armyworm Southern Armyworm Pinworm	1/2-1	1		48 hrs
	Fall Armyworm Variegated Cutworm	1/2			
	Armyworm	1/4-1/2			1
	Do not apply more than 7.2 lbs a.i./acre/crop . Do not make more than 16 applications/crop. * Do not apply more than 4.5 lbs a.i./acre/crop . Do not make more than 5 applications/crop.				
Turf (For use on sod farms only)	Sod Webworm (after application, sprinkle irrigate for 15 minutes)	1-2 (2/5-4/5 ozs. per 1000 sq. ft.)		Do not graze or feed.	48 hrs
	Do not apply more than 3.6 lbs a.i./acre/crop . Do not make more than 4 applications/crop.				
Wheat	Armyworms Cereal Leaf Beetle Aphids	1/4-1/2	7	10	48 hrs
	Do not apply more than 1.8 lbs a.i./acre/crop . Do not make more than 4 applications/crop.				

STORAGE AND DISPOSAL

STORAGE: Handle this package carefully to prevent breakage of inner bag when stored at low temperatures. Allow to warm above 50 Deg.F for normal handling. Store product in original container only. Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Not for use or storage in or around the home.

PRODUCT DISPOSAL: Do not contaminate water, food or feed by disposal. Pesticide wastes are acutely hazardous. 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: Completely empty bag into application equipment. Then dispose of empty package in a sanitary landfill or incinerator, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

SL-662 9039 3/18/99 EPA Est. No. 352-TX-1 Net 1 lb

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