Specimen Label

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.

METHOMYL

GROUP

1A

INSECTICIDE





INSECTICIDE

TM® Trademarks of Corteva Agriscience and its affiliated companies.

Water Soluble Powder In Water Soluble Bags

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

Directions For Use

EPA Reg. No. 352-342

Restricted Use Pesticide

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

Lannate® SP must be used in accordance with the directions for use on this label, or as otherwise permitted by FIFRA. Always read the entire label, including the Limitation of Warranty and Liability.

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).

REI Summary: REI peaches = 4 days; REI apple, cotton, grapefruit, lemon, nectarine, orange, tangelo, tangerine = 3 days; all other WPS uses = 48 hour 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:

Agricultural Use Requirements (Cont.)

Coveralls

Chemical Resistant Gloves made of butyl rubber, natural rubber, neoprene rubber or nitrile rubber), all ≥14 mils.

Shoes plus socks.

Protective eyewear.

Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

STORAGE AND DISPOSAL

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

PESTICIDE 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.

PESTICIDE 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 HANDLING: Refer to the Net Contents section of this product's labeling for the applicable "Nonrefillable Container."

Outer Foil Pouches of Water Soluble Packets (WSP): Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available or, dispose of the empty outer foil pouch in the trash as long as WSP is unbroken. If the outer pouch contacts the formulated product in any way, the pouch must be triple rinsed with clean water. Add the rinsate to the spray tank and dispose of the outer pouch as described previously.

Product Information

Chemigation: Overhead sprinkler chemigation is allowed for use in alfalfa, green and dry bulb onions, potatoes, sugar beets, and wheat (ID, OR and WA only). Refer to the crop specific sections of this label for use directions for chemigation. Do not apply this product through any other type of irrigation systems, except those allowed by instructions provided in this product label.

Restrictions:

- Do not formulate this product into other end-use products.
- Lannate SP is a dry powder in a water soluble bag to be dissolved in water for application by mechanical ground, overhead sprinkler or aerial application equipment only. Hand-held equipment is prohibited for application to crops.
- Do not apply by ground equipment within 25 feet, or by air within 100 feet of lakes, reservoirs, rivers, estuaries, commercial fish ponds and natural, permanent streams, marshes or natural, permanent ponds. Increase the buffer zone to 450 feet from the above aquatic areas when ultra-low volume application is made.
- Pilots must not assist in the mixing and loading operations.
- Use only in commercial and farm plantings. Not for use in home plantings.
- Not for use during any period after a commercial crop site is opened for public entry as a "U-Pick" or "Pick Your Own" or similar operation; in no case shall preharvest applications be made after first public entry.

The restricted entry interval and preharvest interval for the crop stated elsewhere on this label must be followed.

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.

Beneficial Arthropods

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 Management

Lannate SP insecticide is a group 1A insecticide.

To delay development of insecticide resistance, the following practices are recommended:

 Adopt an integrated pest management program, for insecticide use that includes scouting, uses historical information related to pesticide use, crop rotation, record keeping, and which considers cultural, biological and other chemical control practices.

- Monitor after application for unexpected target pest survival. If the level
 of survival suggests the presence of resistance, consult with your local
 university specialist or certified pest control advisor.
- Contact your local extension specialist, certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for the specific site and pest problems in your area.
- For further information or to report suspected resistance, you may contact a Corteva representative by calling 800-258-3033.

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 SP.

Instructions for Using Water Soluble Packages Directly into Spray tanks:

Water Soluble Packages (WSPs) are designed to dissolve in water. Agitation may be used, if necessary, to help dissolve the WSP. Failure to follow handling and mixing instructions can increase your exposure to the pesticide products in WSPs.

WSPs, when used properly, qualify as a closed mixing/loading system under the Agricultural Worker Protection Standard [40 CFR 170.607(d)].

Handling Instructions

Follow these steps when handling pesticide products in WSPs.

- 1. Mix in spray tank only.
- Handle WSP(s) in a manner that protects package from breakage and/ or unintended release of contents. If package is broken, put on PPE required for clean-up and then continue with mixing instructions.
- 3. Keep the WSP(s) in outer packaging until just before use.
- 4. Keep the WSP dry prior to adding to the spray tank.
- 5. Handle with dry gloves and according to the label instructions for PPE.
- 6. Keep WSP intact. Do not cut or puncture WSP.
- 7. Reseal the WSP outer packaging to protect any unused WSP(s).

Mixing Instructions

Follow the steps below when mixing this product, including if tank mixed with other pesticide products. If being tank mixed, the mixing directions 1 through 9 below take precedence over the mixing directions of the other tank mix products. WSPs may, in some cases, be mixed with other pesticide products so long as the directions for use of all mixed products do not conflict. Do not tank mix this product with products that prohibit tank mixing or have conflicting mixing directions.

- If a basket or strainer is present in the tank hatch, remove prior to adding the WSP to the tank.
- Fill tank with water to approximately one-third to one-half of the desired final volume of spray.
- 3. Stop adding water and stop any agitation.
- 4. Place intact/unopened WSP(s) into the tank.
- Do not spray water from a hose or fill pipe to break or dissolve the WSP(s).
- Start mechanical and recirculation agitation from the bottom of tank without using any overhead recirculation, if possible. If overhead recirculation cannot be turned off, close the hatch before starting agitation.
- 7. Dissolving the WSP(s) may take up to 5 minutes or longer, depending on water temperature, water hardness and intensity of agitation.
- 8. Stop agitation before tank lid is opened.
- Open the lid to the tank, exercising caution to avoid contact with dusts or spray mix, to verify that the WSPs have fully dissolved and the contents have been thoroughly mixed into the solution.
- 10. Do not add other allowed products or complete filling the tank until the bags have fully dissolved and pesticide is thoroughly mixed.11. Once the WSP have fully dissolved and any other products have been
- 11. Once the WSP have fully dissolved and any other products have beer added to the tank, resume filling the tank with water to the desired level, close the tank lid, and resume agitation.
- 12. Use the spray solution when mixing is complete.
- Maintain agitation of the diluted pesticide mix during transport and application.
- 14. It is unlawful to use any registered pesticide, including WSPs, in a manner inconsistent with its label.

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 apply Lannate SP with fungicides containing Bordeaux mixture or triphenyltin hydroxide as active ingredients, nor with lime sulfur, "Rayplex" iron soil nutrients, or in highly alkaline solutions.

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.

Tank Mix Sequence — Add different formulation types in the sequence indicated below. Allow time for complete mixing and dispersion after addition of each product.

- 1. Lannate SP and other products in water soluble bags
- 2. Water dispersible granules
- 3. Wettable powders
- 4. Water based suspension concentrates
- 5. Water soluble concentrates
- Oil based suspension concentrates
- 7. Emulsifiable concentrates
- Adjuvants, surfactants, oils
- 9. Soluble fertilizers

10. Drift retardants

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

Application

Apply at the labeled 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, apply Lannate SP at 5 to 7 day intervals to maintain control. Refer to crop specific directions for use in the crop tables for more specific information on treatment intervals.

Use sufficient water to obtain thorough, uniform coverage. Since Lannate SP is a contact insecticide, spray target insects directly.

For aerial application, use a minimum of 2 gallons per acre (gpa) with the following exceptions: 10 gpa for peaches and nectarines; 15 gpa for oranges, lemons, grapefruit, tangelos and tangerines.

For aerial application on certain crops as listed below, 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) Collards Peppermint Anise Asparagus Corn Peppers Potato Beans Cotton Broccoli Cucumber Soybean Brussels sprouts Lettuce Spinach Cabbage Melons Sugar beet Summer Squash Carrot Mint Cauliflower Peanuts Wheat

Apply the low labeled 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 labeled rate for controlling severe infestations. Thereafter, use the lowest labeled rate possible to maintain control.

Spray Tank Cleanout

Immediately following application, thoroughly clean all spray equipment to reduce the risk of forming hardened deposits which might become difficult to remove.

Drain spray equipment. Thoroughly rinse sprayer and flush hoses, boom, and nozzles with clean water.

Clean all other associated application equipment. Take all necessary safety precautions when cleaning equipment. Do not clean near wells, water sources, or desirable vegetation. Dispose of waste rinse water in accordance with local regulations.

Chemigation

Instructions for the use of Lannate SP on Alfalfa, Green and Dry Bulb Onions, Potatoes, Sugar Beets, and Wheat Using Overhead Sprinkler Chemigation

Overhead chemigation applications offer the advantage of greater penetration and coverage of the target plant. However, typical chemigation applications are more dilute than ground or aerial applications. It is recommended to keep the concentration of Lannate SP as high as possible in the application. Apply Lannate SP in 0.1 to 0.2 inches of water per acre.

Lannate SP is most active as a contact insecticide, although it does also have activity via ingestion of treated plants. Apply Lannate SP when the insects are active and most likely to come into direct contact with the application.

Types of Irrigation Systems:

Apply Lannate SP only through overhead sprinkler irrigation systems (center pivot, lateral move, end tow, side (wheel) roll and solid set) for control of various pests. Other overhead sprinkler systems; such as end tow, side (wheel) roll and solid set, may be used if they provide uniform water distribution. Do not use filter screens smaller than 50 mesh throughout the system due to possible build-up of material on 100 mesh or smaller screens. Do not apply Lannate SP through any other type of irrigation systems .

General Directions for Chemigation:

Preparation

A pesticide tank is recommended for the application of Lannate SP in chemigation systems. Thoroughly clean the injection system and tank of any fertilizer or chemical residues using a standard clean-out procedure. Dispose of any residues in accordance with State and Federal laws. Add 1/4 to 1/2 of the desired amount of water and then measure the required amount of Lannate SP into the tank. Complete filling the tank by adding the required amount of water. Agitate thoroughly to insure a uniform solution of Lannate SP. Once in solution, no further agitation is required. Injection solution should not be stored overnight. Highly alkaline water should be buffered so that the pH of the injection solution is approximately neutral (~pH 7 - 7.5).

Injection Into Chemigation Systems

Inject the proper amount of the Lannate SP solution into the irrigation water flow using a positive displacement injection pump. Injection should occur at a point in the main irrigation water flow to ensure thorough mixing with the irrigation water. For continuously moving systems, inject the solution containing Lannate SP into the irrigation water line continually and uniformly throughout the irrigation cycle. Apply in no more than 0.2 inches of water per acre. For overhead sprinkler systems that are stationary, add the solution containing Lannate SP to the irrigation water line, and apply no more than 0.2 inches of water per acre, just before the end of the irrigation cycle.

Uniform Water Distribution

The irrigation system used for application of Lannate SP must provide for uniform distribution of Lannate SP treated water. Non-uniform distribution might result in crop injury, lack of effectiveness, or illegal pesticide residues in or on the crop being treated. Ensure the irrigation system is calibrated to uniformly distribute the chemigation application to the crop. Contact the equipment manufacturer, the local University Extension agent, or other experts if you have questions about achieving uniform distribution of the application.

Equipment calibration

Calibrate the irrigation system and injector before applying Lannate SP. Calibrate the injection pump while the system is running using the expected irrigation rate. If you have questions about calibration, you should contact your state extension service specialists, equipment manufacturer, or other experts.

Monitoring of Chemigation Applications

A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of a responsible person, shall shut the system down and make necessary adjustments should the need arise. Wear the personal protective equipment as defined in the PPE section of the label for cleaners and repairers of application equipment when making adjustments or repairs on the chemigation system when Lannate SP is in the irrigation water.

Required System Safety Devices

Do not connect any irrigation system used for pesticide applications to a public water system unless the pesticide label-prescribed safety devices are in place. Public water system means a system for the provision to the public of piped water for human consumption, if such a system has at least 15 service connections or regularly serves an average of at least 25 individuals at least 60 days out of the year.

- 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.
- 3. 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.
- 7. Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.

Posting of Areas to be Treated

Posting of areas to be chemigated is required when 1) any part of a treated area is within 300 feet of sensitive areas such as residential areas, labor camps, businesses, daycare centers, hospitals, in-patient clinics, nursing homes, or any other public areas such as schools, parks, playgrounds, or other public facilities not including public roads, or 2) when the chemigated area is open to the public such as golf courses or retail greenhouses.

Posting must conform to all the following requirements. Treated areas shall be posted with signs at all usual points of entry and along likely routes of approach from the listed sensitive areas. When there are no usual points of entry, signs must be posted in the corners of the treated areas and in any other location affording maximum visibility to sensitive areas. The signs shall be printed in ENGLISH. Signs must be posted prior to application and must remain posted until foliage has dried and soil surface water has disappeared. Signs may remain in place indefinitely as long as they are composed of materials to prevent deterioration and maintain legibility for the duration of the posting period.

All words shall consist of letters at least 2 1/2 inches tall, and all letters and the symbol shall be a color which sharply contrasts with their immediate background. At the top of the sign shall be the words "KEEP OUT" followed by an octagonal stop sign symbol at least 8 inches in diameter containing the word "STOP." Below the symbol shall be the words "PESTICIDE IN IRRIGATED WATER."

Posting for chemigation does not replace other posting and reentry requirements for farm worker safety.

Operation

Start the water pump and sprinkler, and let the system achieve the desired pressure and speed before starting the injector. Start the injector and calibrate the injection system according to the directions above. This procedure is necessary to deliver the desired rate per acre in a uniform manner. Apply Lannate SP in 0.1 to 0.2 inches of water per acre. When the application is finished, allow the entire irrigation and injector system to be thoroughly flushed clean before stopping the system.

End guns must be turned off during the application, if they irrigate nontarget areas or if they do not provide uniform application and coverage.

It is recommended that nozzles in the immediate area of control panels, chemical supply tanks, wellheads and system safety devices be plugged to prevent contamination of these areas.

Do not apply when wind speed favors drift beyond the area intended for treatment.

Do not apply when system connections or fittings leak or when nozzles do not provide uniform distribution.

Cleaning the System

Thoroughly clean the injection system and tank of any fertilizer or chemical residues using a standard clean-out procedure. Dispose of any residues in accordance with State and Federal laws. Consult your owner's manual or your local equipment dealer for cleanout procedures for your injection system.

Spray Drift Management

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment-and-weather- related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions.

The following drift management requirements must be followed to avoid off-target drift movement from aerial applications to agricultural field crops. These requirements do not apply to forestry applications, public health uses or to applications using dry formulations.

- 1. The distance of the outer most nozzles on the boom must not exceed 3/4 the length of the wingspan or rotor.
- Nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees.

Where states have more stringent regulations, they should be observed.

The applicator should be familiar with and take into account the information covered in the Aerial Drift Reduction Advisory Information.

Aerial Drift Reduction Advisory Information

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 Do not exceed the nozzle manufacturer's recommended pressures. For many nozzle types, lower pressure produces larger droplets. 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 NEEDED, 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. Solid stream nozzles oriented straight back produce the largest droplets and the lowest drift.

Controlling Droplet Size — Aircraft

- Number of Nozzles Use the minimum number of nozzles that provide uniform coverage.
- Nozzle Orientation Orienting nozzles so that the spray is released parallel to the airstream produces larger droplets than other orientations and is the recommended practice. Significant deflection from horizontal will reduce droplet size and increase drift potential.
- Nozzle Type Solid stream nozzles (such as disc and core with swirl
 plate removed) oriented straight back produce larger droplets than
 other nozzle types and the lowest drift.
- Boom Length For some use patterns, reducing the effective boom length to less than 3/4 of the wingspan or rotor length may further reduce drift without reducing swath width.
- Application Height Applications should not be made at a height greater than 10 feet above the top of the largest plants unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind.

 Swath Adjustment – When applications are made with a crosswind, the swath will be displaced downwind. Therefore, on the up and downward edges of the field, the applicator must compensate for this displacement by adjusting the path of the aircraft upwind. Swath adjustment distance should increase, with increasing drift potential (higher wind, smaller drops, etc.)

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 is lowest between wind speeds of 3 to 10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given speed. Application should be avoided below 3 mph due to variable wind direction and high inversion potential. AVOID GUSTY OR WINDLESS CONDITIONS.

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

Temperature And Humidity

When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

Temperature Inversions

Applications should not occur during a temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain close to the ground and move laterally in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds common during inversions. 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.

Sensitive Areas

The pesticide should only be applied when the potential for drift to adjacent sensitive areas (e.g. residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops) is minimal (e.g. when wind is blowing away from the sensitive areas).

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 canopy.
- 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.

Crops	Insects	Rate Lannate SP Lbs. Per Acre	Last Application — Days To Harvest
Alfalfa	Pea Aphid Lygus Bugs Blotch Leafminer Aphids Egyptian Alfalfa Weevil Larvae Loopers Beet Armyworm Armyworm Alfalfa Caterpillar Fall Armyworm Western Yellowstriped Armyworm Yellowstriped Armyworm Alfalfa Weevil Larvae Variegated Cutworm Restrictions: Do not apply to dormant or semidormant alfalfa when min. daily Do not apply more than 4 pounds (3.6 lbs ai) of Lannate SP/acr Do not make more than 10 applications/crop. Chemigation - Lannate SP may be applied by overhead sprinkle of Lannate SP. Apply in 0.1 to 0.2 inches of water per acre. See Reentry Interval (REI): 48 hours * Do not apply within 7 days of cutting or allowing livestock to get the state of the seed of the state of the state of the seed of the state of the state of the seed of the state of the state of the seed of the state of the state of the seed of the seed of the seed of the state of the seed of the state of the seed of the seed of the seed of the state of the seed	e/crop. er chemigation. For best results, use "Chemigation" section for more info	rmation.
A (F))	must be tagged, "Not for Human Use" at the processing plant.	4 (0.0 lb = 1/2)	
Anise (Fennel)	Cabbage Looper Beet Armyworm	1 (0.9 lb ai/acre) 1/2 - 1 (0.45 - 0.9 lb ai/acre)	7
	Restrictions: Do not apply more than 5 pounds (4.5 lbs ai) of Lannate SP/acr Do not make more than 10 applications/crop. Reentry Interval (REI): 48 hours		
Apple Ground application only	Apple Aphid Rosy Apple Aphid Tufted Apple Budmoth Brown Marmorated Stink Bug ** Green Fruitworm Tarnished Plant Bug Codling Moth (10-12 day spray intervals)	1/2 - 1 *(0.45 - 0.9 lb ai/acre)	14
	Leafrollers (Fruittree, Obliquebanded, Redbanded, Variegated) Lesser Appleworm White Apple Leafhopper Tentiform Leafminer Cutworm	1 * (0.9 lb ai/acre)	
	Restrictions: Do not use on Early Macintosh & Wealthy varieties. Do not apply more than 5 pounds (4.5 lbs ai) of Lannate SP /ac Do not make more than 5 applications/crop; minimum interval to Reentry Interval (REI): 72 hours * Apply in a minimum of 50 gallons of water per acre. ** Brown marmorated stink bugs are very mobile pests. They make is needed prior to the minimum application interval, use a differ Since Lannate SP is a contact insecticide, follow direct spraying Use sufficient water to obtain thorough, uniform coverage.	netween treatments is 7 days. nay reinfest the treated area quickly. ent insecticide.	
Asparagus	Beet Armyworm, Western Yellowstriped Armyworm Asparagus Beetle Spotted Asparagus Beetle White Cutworm Redbacked Cutworm	1/2 - 1 (0.45 - 0.9 lb ai/acre)	1
	Variegated Cutworm Restrictions: Do not apply more than 5 pounds (4.5 lbs ai) of Lannate SP /ac Do not make more than 8 applications/crop. Reentry Interval (REI): 48 hours	1/2 (0.45 lb ai/acre) re/crop.	
Avocado	Western Avocado Leafroller Omnivorous Looper	1/2 - 1 (0.45 - 0.9 lb ai/acre)	1

Crops (Cont.)	Insects	Rate Lannate SP Lbs. Per Acre	Last Application — Days To Harvest
	Restrictions: Do not apply more than 1 pound (.9 lb ai) of Lannate SP /acre/c Do not make more than 2 applications/crop. Reentry Interval (REI): 48 hours	rop.	
Beans (Succulent) Including:	Leafhopper Mexican Bean Beetle	1/4 - 1 (0.23 - 0.9 lb ai/acre)	Succulent Beans 1/4 - 1/2 lb 1,
Kidney beans Lima beans	Fall Armyworm Variegated Cutworm	1/2 (0.45 lb ai/acre)	over 1/2 lb 3; 3 Vines
Mung beans Navy beans Pinto beans Snap beans Wax Beans Broad beans Fava beans Asparagus beans Black-eyed peas Cowpeas Chick peas Garbanzo beans Sweet lupine	Beet Armyworm Corn Earworm Saltmarsh Caterpillar Yellowstriped Armyworm Western Yellowstriped Armyworm Lygus Bugs Thrips Aphids Loopers * Brown Marmorated Stink Bug ** European Corn Borer	1/2 - 1 (0.45 - 0.9 lb ai/acre)	- 7 Hay
White sweet lupine White lupine Grain lupine	(Ovicide & Larvicide) – Initiate when moth flights first appear and continue preventive treatments at 3-4-day intervals to control eggs and larvae		
G.G	Spotted Cucumber Beetle	1/4 - 1/2 (0.23 - 0.45 lb ai/acre)	_
	Do not apply more than 5 pounds (4.5 lbs ai) of Lannate SP /acr Do not make more than 10 applications/crop. Reentry Interval (REI): 48 hours * Do not use for Loopers in AL & GA. ** Brown marmorated stink bugs are very mobile pests. They m is needed prior to the minimum application interval, use a differe Since Lannate SP is a contact insecticide, follow direct spraying thorough, uniform coverage. Use a minimum of 20 gallons of wa water per acre for aerial applications.	nay reinfest the treated area quickly. ent insecticide. g of the target pest. Use sufficient w	ater to obtain
Beans (Dry) (Same as Succulent Beans)	(Same as Succulent Beans)	(Same as Succulent Beans)	14 Dry Beans * 14 Vines * 14 Hay *
	Restrictions: Do not apply more than 5 pounds (4.5 lbs ai) of Lannate SP /acr Do not make more than 10 applications/crop. Do not use for Loopers in AL & GA. Reentry Interval (REI): 48 hours * Do not apply within 14 days of cutting. ** Brown marmorated stink bugs are very mobile pests. They m is needed prior to the minimum application interval, use a difference Since Lannate SP is a contact insecticide, follow direct spraying thorough, uniform coverage. Use a minimum of 20 gallons of way water per acre for aerial applications.	nay reinfest the treated area quickly. ent insecticide. g of the target pest. Use sufficient w ater per acre for ground applications	If another application ater to obtain
Beets (Table)	Imported Cabbageworm	1/4 - 1 (0.23 - 0.9 lb ai/acre)	0 - roots 10 - tops
	Beet Armyworm Cabbage Looper Diamondback Moth	1/2 - 1 (0.45 - 0.9 lb ai/acre)	10 - τορs
	Cucumber Beetle Variegated Cutworm	1/2 (0.45 lb ai/acre)	
	Restrictions: Do not apply more than 4 (3.6 lbs ai) pounds of Lannate SP /acr Do not make more than 8 applications/crop. Reentry Interval (REI): 48 hours	re/crop.	
Bermudagrass pasture	Fall Armyworm, Armyworm, Striped Grass Looper	1/4 - 1 (0.23 - 0.9 lb ai/acre)	7 Forage * 3 Dehydrated Hay **
	Restrictions: Do not apply more than 1 pound (0.9 lb ai) of Lannate SP /acre/Do not make more than 4 applications/crop. Reentry Interval (REI): 48 hours * Do not apply within 7 days of feeding forage or allowing livest ** Do not apply within 3 days of cutting for hay.	·	

Crops (Cont.)	Insects	Rate Lannate SP Lbs. Per Acre	Last Application — Days To Harvest
Blueberries	Blueberry Leafhopper Aphids Tussock Moth Weevil Sharp-Nosed Leafhopper	1/2 (0.45 lb ai/acre)	3
	Cranberry Fruitworm * Cherry Fruitworm * Brown Marmorated Stink Bug * [†] Spotted Wing Drosophila **	1/2 - 1 (0.45 - 0.9 lb ai/acre)	
	Flea Beetle (larvae) Sawfly (larvae) Blueberry Leafroller	1 (0.9 lb ai/acre)	
	Blueberry Maggot	1/4 - 1/2 (0.23 - 0.45 lb ai/acre)	
	Restrictions: Do not apply during bloom. Do not apply more than 4 pounds (3.6 lb ai) of Lannate SP /act Do not make more than 4 applications/crop. Reentry Interval (REI): 48 hours * For ground use only. † Brown marmorated stink bugs are very mobile pests. They n needed prior to the minimum application interval, use a differe follow direct spraying of the target pest and the use of the high uniform coverage. Use a minimum of 50 gallons of water per a ** Apply when the first adult spotted wing drosophila are trap recommendations in order to protect ripening fruit. Apply by p spray volume to obtain thorough coverage. For aerial applicati volume of 10 gallons per acre.	nay reinfest the treated area quickly. In tinsecticide. Since Lannate SP is an est labeled rate. Use sufficient water lore. Deed or based on local university croproperly calibrated air or ground equipi	to obtain thorough, stage timing ment using sufficient
Broccoli	Loopers Diamondback Moth	1/2 - 1 **(0.45 - 0.9 lb ai/acre)	3
	Imported Cabbageworm	1/4 - 1 ** (0.23 - 0.9 lb ai/acre)	
	Restrictions: Do not apply more than 7 pounds (6.3 lb ai) of Lannate SP /acc Do not make more than 10 applications/crop; minimum interval Reentry Interval (REI): 48 hours ** Add a wetting agent to improve coverage.	al between treatments is 2 days.	
Brussels Sprouts	Loopers Imported Cabbageworm Diamondback Moth	1/2 - 1 **(0.45 - 0.9 lb ai/acre)	3
	Variegated Cutworm Restrictions: Do not apply more than 6 pounds (5.4 lb ai) of Lannate SP /act Do not make more than 10 applications/crop; minimum interval Reentry Interval (REI): 48 hours ** Add a wetting agent to improve coverage.	re/crop. al between treatments is 2 days.	<u> </u>
Cabbage	Loopers * Diamondback Moth Fall Armyworm	1/2 - 1 ** (0.45 - 0.9 lb ai/acre)	1
	Imported Cabbageworm	1/4 - 1 ** (0.23 - 0.9 lb ai/acre)	
	Variegated Cutworm	1/2 ** (0.45 lb ai/acre)	
	Restrictions: Do not apply more than 8 pounds (7.2 lb ai) of Lannate SP /acc Do not make more than 15 applications/crop; minimum interval Reentry Interval (REI): 48 hours * Do not use for Loopers in AL & GA. ** Add a wetting agent to improve coverage.		
Carrot	Beet Armyworm Armyworms Aster Leafhopper	1/2 - 1 (0.45 - 0.9 lb ai/acre)	1
	Variegated Cutworm	1/4 - 1/2 (0.23 - 0.45 lb ai/acre)	
	Restrictions: Do not apply more than 7 pounds (6.3 lb ai) of Lannate SP /ac Do not make more than 10 applications/crop. Reentry Interval (REI): 48 hours	re/crop.	
Cauliflower	Imported Cabbageworm Loopers	1/4 - 1 ** (0.23 - 0.9 lb ai/acre) 1/2 - 1 ** (0.45 - 0.9 lb ai/acre)	3
	Diamondback Moth	,	_
	Variegated Cutworm	1/2 ** (0.45 lb ai/acre)	
	Restrictions: Do not apply more than 8 pounds (7.2 lb ai) of Lannate SP /acc Do not make more than 10applications/crop; minimum interval Reentry Interval (REI): 48 hours ** Add a wetting agent to improve coverage.		

Crops (Cont.)	Insects	Rate Lannate SP Lbs. Per Acre	Last Application — Days To Harvest
Celery	Beet Armyworm Aster Leafhopper	1/2 - 1 (0.45 - 0.9 lb ai/acre)	7
	Loopers	1 (0.9 lb ai/acre)	
	Variegated Cutworm	1/2 (0.45 lb ai/acre)]
	Armyworms	1/4 - 1 (0.23 - 0.9 lb ai/acre)	
	Restrictions: Do not apply more than 7 pounds (6.3 lb ai) of Lannate SP /acr Do not make more than 8 applications/crop. Reentry Interval (REI): 48 hours	re/crop.	
Chicory	Beet Armyworm Variegated Cutworm Leafhoppers	1/2 - 1 (0.45 - 0.9 lb ai/acre)	80
	Restrictions: Do not apply more than 2 pounds (1.8 lb ai) of Lannate SP /acr Do not make more than 2 applications/crop. Reentry Interval (REI): 48 hours	re/crop.	
Chinese Cabbage (Napa, Bok Choy)	Loopers Beet Armyworm	1/2 - 1 * (0.45 - 0.9 lb ai/acre)	10
	Restrictions: Do not apply more than 8 pounds (7.2 lb ai) of Lannate SP /acr Do not make more than 10 applications/crop. Reentry Interval (REI): 48 hours * Minimum of 25 gallons water per acre by ground or 5 gallons	•	
Collards (Fresh market only)	Diamondback Moth Variegated Cutworm	1/2 (0.45 lb ai/acre)	10
	Imported Cabbageworm Beet Armyworm Loopers *	1/2 - 1 (0.45 - 0.9 lb ai/acre)	
	Restrictions: Do not apply when temp. is less than 50° F. Do not apply when crop is less than 10" tall. Do not apply more than 6 pounds (5.4 lb ai) of Lannate SP /acr Do not make more than 8 applications/crop. Reentry Interval (REI): 48 hours * Do not use for Loopers in AL & GA.	re/crop.	
Corn (Field, Popcorn & Seed)	Earworm, (Ovicide/Larvicide) Armyworm Fall Armyworm European Corn Borer – Ears 1 to 3 days or as needed Corn Rootworm (adult beetles) Flea Beetles Picnic Beetles Aphids	1/4 - 1/2 (0.23 - 0.45 lb ai/acre)	21 Ears 3 Forage * 21 Stover *
	Variegated Cutworm Beet Armyworm Brown Marmorated Stink Bug **	1/2 (0.45 lb ai/acre)	
	Restrictions: Do not apply more than 2.5 pounds (2.25 lb ai) of Lannate SP / Do not make more than 5 applications/crop. Do not make more Make one application when corn is at 1-2 leaf stage for control needed, 5-7 days later. Reentry Interval (REI): 48 hours * Corn forage is green actively growing plants that are harveste animals or used to make silage. Corn stover are the parts of the maturity. These remaining stalks and leaves can be fed as roug ** Brown marmorated stink bugs are very mobile pests. They r is needed prior to the minimum application interval, use a differ Since Lannate SP is a contact insecticide, follow direct sprayin thorough, uniform coverage. Use a minimum of 20 gallons of water per acre for aerial applications.	e than two applications to corn prior of early season pests; make a second with the ears intact. The plants called plant that remain after removal of the subject of animals. The plants the treated area quickly rent insecticide. In go of the target pest. Use sufficient we have a subject to an application of the target pest.	n be fed directly to ne grain at full plant If another application vater to obtain

Crops (Cont.)	Insects	Rate Lannate SP Lbs. Per Acre	Last Application — Days To Harvest
Corn (Sweet)	Earworm - Whorl as needed	1/3 - 1/2 (0.27 - 0.45 lb ai/acre)	0 Ears
	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 (0.23 - 0.45 lb ai/acre)	3 Forage 21 Stover
	Variegated Cutworm Beet Armyworm Brown Marmorated Stink Bug *	1/2 (0.45 lb ai/acre)	
	Certain hybrid varieties of sweet corn are susceptible to methor before full scale spraying. Restrictions Do not apply more than 7 pounds (6.3 lb ai) of Lannate SP /acre Do not make more than 28 applications/crop; minimum interval Do not make more than two applications to corn prior to tassel Make one application when corn is at 1-2-leaf stage for control needed, 5-7 days later. Reentry Interval (REI): 48 hours * Brown marmorated stink bugs are very mobile pests. They maneded prior to the minimum application interval, use a differen Since Lannate SP is a contact insecticide, follow direct spraying thorough, uniform coverage. Use a minimum of 20 gallons of way water per acre for aerial applications.	e/crop. between treatments is 1 day. push. of early season pests; make a secon ay reinfest the treated area quickly. If t insecticide. g of the target pest. Use sufficient was	nd application, if f another application is ater to obtain
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/Plant Bugs (adults and nymphs) Start treatment on low level population for suppression.	1/8 - 1/4 (0.11 - 0.23 lb ai/acre) (see Insect Predator Section)	15
	Cotton Leafworm	1/4 - 1/2 (0.23 - 0.45 lb ai/acre)	1
	Cotton Fleahopper (as needed)	1/8 - 1/4 (0.11 - 0.23 lb ai/acre)	1
	Aphids, Thrips	1/4 (0.23 lb ai/acre)	1
East of Rockies only	(Early Season) Bollworm, Tobacco Budworm, Beet Armyworm, Cotton Leafperforator, Fall Armyworm, Lygus Bugs/Plant Bugs (adults and nymphs) Use as occasional spray in regular schedule but not more often than every 10 days.	1/2 (0.45 lb ai/acre)	
	(Late Season) Bollworm, Tobacco Budworm, Beet Armyworm, Cotton Leafperforator, Fall Armyworm, Lygus Bugs/Plant Bugs (adult and nymphs). Up to 3 applications at 3-5-day intervals after desired boll load set on plants.	1/2 - 3/4 (0.45 - 0.68 lb ai/acre)	
Texas	Cotton Aphid	1/4 - 2/3 (0.23 - 0.0.6 lb ai/acre)	
West of Rockies only	Larvicide for worms: Bollworm, Fall Armyworm, Tobacco Budworm, Lygus Bugs Beet Armyworm	1/2 - 3/4 (0.45 - 0.68 lb ai/acre)	
	Cotton Leafperforator	1/3 - 3/4 (0.3 - 0.68 lb ai/acre)	
	Restrictions: For applications West of the Rockies, make applications on 3-5 For all applications made to cotton in the United States: Do not apply more than 2 pounds (1.8 lb ai) of Lannate SP /acre Do not make more than 8 applications/crop. Use may redden cotton if excessive stop or alternate with other Do not graze or feed. Reentry Interval (REI): 72 hours	e/crop.	set on plants.

Crops (Cont.)	Insects	Rate Lannate SP Lbs. Per Acre	Last Application — Days To Harvest
Cucumber	Loopers Tobacco Budworm Beet Armyworm Yellowstriped Armyworm Granulate Cutworm Flea Beetles Cucumber Beetles Melon Aphid Melonworm Pickleworm Fall Armyworm	1/2 - 1 (0.45 - 0.9 lb ai/acre)	1/2 lb 1 Over 1/2 lb 3
	Variegated Cutworm	1/2 (0.45 lb ai/acre)	
	Restrictions: Do not apply more than 6 pounds 5.4 lb ai) of Lannate SP /acre Do not make more than 12 applications /crop. Reentry Interval (REI): 48 hours	e/crop.	
Eggplant	Green Peach Aphid	1/4 - 1 (0.23 - 0.9 lb ai/acre)	5
	Tomato Pinworm (Ground Application Only) Beet Armyworm Corn Earworm	1/2 - 1 (0.45 - 0.9 lb ai/acre)	
	Restrictions: Do not apply more than 5 pounds (4.5 lb ai) of Lannate SP /acr Do not make more than 10 applications/crop. Reentry Interval (REI): 48 hours	e/crop.	
Endive, Escarole	Beet Armyworm	1/2 - 1 (0.45 - 0.9 lb ai/acre)	10
	Restrictions: Do not apply more than 5 pounds (4.5 lb ai) of Lannate SP /acr Do not make more than 8 applications/crop. Reentry Interval (REI): 48 hours	e/crop.	
Garlic	Beet Armyworm	1/2 ** (0.45 lb ai/acre)	7
	Restrictions: Do not apply more than 3 pounds (2.7 lb ai) of Lannate SP /acr Do not make more than 6 applications/crop. Reentry Interval (REI): 48 hours ** Add a wetting agent to improve coverage.	e/crop.	
Grapefruit CA, AZ, & HI only	Thrips Fruittree Leafroller Orange Tortrix Western Tussock Moth Beet Armyworm	1/2 - 1 (0.45 - 0.9 lb ai/acre)	1
	Restrictions: Do not apply more than 3 pounds (2.7 lb ai) of v/acre/crop. Do not make more than 4 applications/crop. Reentry Interval (REI): 72 hours		
Horseradish	Aphids Thrips	1/2 (0.45 lb ai/acre)	65
Ground application only	Restrictions: Do not apply more than 2 pounds (1.8 lb ai) of Lannate SP /acr Do not make more than 4 applications/crop. Reentry Interval (REI): 48 hours	e/crop.	
Leafy Green Vegetables: Beet (tops), Dandelions, Kale,	Beet Armyworm Cabbage Looper * Diamondback Moth Imported Cabbageworm	1/2 - 1 (0.45 - 0.9 lb ai/acre)	10
Mustard Greens, Parsley, Swiss Chard, Turnip Greens	Restrictions: Do not apply more than 4 pounds (3.6 lb ai) of Lannate SP /acr Do not make more than 8 applications/crop. Reentry Interval (REI): 48 hours * Do not use for Cabbage Loopers in AL & GA.	e/crop.	
Lemon CA, AZ, & HI only	Thrips Western Tussock Moth Orange Tortrix Beet Armyworm	1/2 - 1 (0.45 - 0.9 lb ai/acre)	1
	Restrictions: Do not apply more than 3 pounds (2.7 lb ai) of Lannate SP /acr Do not make more than 4 applications/crop. Reentry Interval (REI): 72 hours	e/crop.	

Crops (Cont.)	Insects	Rate Lannate SP Lbs. Per Acre	Last Application — Days To Harvest
Lentils	Western Yellowstriped Armyworm	1/2 - 1 (0.45 - 0.9 lb ai/acre)	21
	Restrictions: Do not apply more than 1 pound (0.9 lb ai) of Lannate SP /acre/ Do not make more than 2 applications/crop. Reentry Interval (REI): 48 hours		
Lettuce	Alfalfa Looper	1/4 - 1 (0.23-0.9 lb ai/acre)	1/4-1/2 lb 7
(head varieties and leaf varieties)	Thrips Aphids Beet Armyworm Cabbage Looper Corn Earworm Aster Leafhopper	1/2 - 1 (0.45 - 0.9 lb ai/acre)	over 1/2 lb 10
	Variegated Cutworm	1/2 (0.45 lb ai/acre)	
	Restrictions: Lettuce (head varieties) Do not apply more than 7 pounds (6.3 lb ai) of Lannate SP /acre Do not make more than 12 applications/crop; minimum interval Reentry Interval (REI): 48 hours Lettuce (leaf varieties) Do not apply more than 4 pounds of Lannate SP /acre/crop. Do not make more than 6 applications/crop; minimum interval b Reentry Interval (REI): 48 hours	between treatments is 2 days.	
Melons Including: Cantaloupe Casaba Santa Claus melon Crenshaw melon Honeydew melon Honey balls Persian melon Golden pershaw melon	Loopers Tobacco Budworm Beet Armyworm Yellowstriped Armyworm Granulate Cutworm Flea Beetles Cucumber Beetles Melon Aphid Melonworm Pickleworm Fall Armyworm	1/2 - 1 (0.45 - 0.9 lb ai/acre)	1/2 lb 1 day over 1/2 lb 3 days
Mango melon	Variegated Cutworm	1/2 (0.45 lb ai/acre)	
Pineapple melon Snake melon Watermelon	Restrictions: Do not apply more than 6 pounds (5.4 lb ai) of Lannate SP/acre/crop. Do not make more than 12 applications/crop. Reentry Interval (REI): 48 hours		
Mint (Peppermint,	Variegated Cutworm Alfalfa Looper	1 (0.9 lb ai/acre)	14
Spearmint)	Flea Beetles Restrictions: Do not apply more than 2 pounds (1.8 lb ai) of Lannate SP /acre Do not make more than 4 applications/crop. Reentry Interval (REI): 48 hours	3/4 - 1 (0.68 - 0.9 lb ai/acre) e/crop.	
Nectarine CA and AZ only	Thrips Brown Marmorated Stink Bug *	1/2 - 1 (0.45 - 0.9 lb ai/acre)	1
,	Restrictions: Do not apply more than 3 pounds (2.7 lb ai) of Lannate SP /acre Do not make more than 3 applications/crop. Reentry Interval (REI): 72 hours * Brown marmorated stink bugs are very mobile pests. They maneeded prior to the minimum application interval, use a different Since Lannate SP is a contact insecticide, follow direct spraying rate. Apply by ground application only and use sufficient water 50 gallons of water per acre.	ay reinfest the treated area quickly. It insecticide. g of the target pest and the use of the obtain thorough, uniform coverage.	ne highest labeled e. Use a minimum of
Onions	Beet Armyworm	1/2 - 1 ** (0.45 - 0.9 lb ai/acre)	7 Green and
(Green & Dry Bulb)	Thrips * Variegated Cutworm Black Cutworm	1 ** (0.9 lb ai/acre)	Dry Bulb Onions
	Restrictions: Onions, green Do not apply more than 6 pounds (5.4 lb ai) of Lannate SP /acre Do not make more than 8 applications/crop; minimum interval be Reentry Interval (REI): 48 hours Onions, dry bulb Do not apply more than 4 pounds (3.6 lb ai) of Lannate SP /acre Do not make more than 8 applications/crop; minimum treatmen Reentry Interval (REI): 48 hours *Chemigation – Lannate SP may be applied by overhead sprink before thrips populations reach 3 to 5 thrips per plant. Add a we See "Chemigation" section for more information. ** Add a wetting agent to improve coverage.	petween treatments is 5 days. e/crop. ti interval between treatments is 5 days. kler chemigation to control thrips. Be	egin applications

Crops (Cont.)	Insects	Rate Lannate SP Lbs. Per Acre	Last Application — Days To Harvest
Oranges CA, AZ, & HI only	Thrips Western Tussock Moth Orange Tortrix Fruittree Leafroller Beet Armyworm Citrus Cutworm Restrictions:	1/2 - 1 (0.45 - 0.9 lb ai/acre)	1
	Do not apply more than 3 pounds (2.7 lb ai) of Lannate SP /acre Do not make more than 4 applications/crop. Reentry Interval (REI): 72 hours	e/crop.	
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 with residual-type insecticides registered for this use. Green Peach Aphid	1 lb (0.9 lb ai/acre) (or 1/4 lb per 100 gal up to 400 gal per acre)	4
	Brown Marmorated Stink Bug **	1/2 - 1 (0.45 - 0.9 lb ai/acre)	
	Restrictions: Do not apply more than 6 pounds (5.4 lb ai)of Lannate SP /acre Do not make more than 6 applications/crop. Reentry Interval (REI): 4 days * Oriental Fruit Moth (ground application only). ** Brown marmorated stink bugs are very mobile pests. They m is needed prior to the minimum application interval, use a differ Since Lannate SP is a contact insecticide, follow direct spraying rate. Apply by ground application only and use sufficient water 50 gallons of water per acre.	nay reinfest the treated area quickly. ent insecticide. g of the target pest and the use of th to obtain thorough, uniform coverage	e highest labeled e. Use a minimum of
Peanuts	Corn Earworm * Potato Leafhopper Fall Armyworm	1/4 - 1 (0.23 - 0.9 lb ai/acre)	21
	Beet Armyworm	3/8 - 1 (0.34-0.9 lb ai/acre	
	Green Cloverworm Velvetbean Caterpillar Cabbage Looper Soybean Looper ** Thrips Granulate Cutworm	1/2 - 1 (0.45 - 0.9 lb ai/acre)	
	Restrictions: Do not apply more than 4 pounds (3.6 lb ai) of Lannate SP /acre/crop. Do not make more than 8 applications/crop. Do not feed treated vines. Reentry Interval (REI): 48 hours * Lannate SP has ovicidal and larvicidal control on corn earworm. ** Soybean Looper is difficult to control. Do not apply to worms greater than 1/2" long. Use higher rate for severe infestations		
Pears CT, DE, NH, NJ, NY,	Green Fruitworm Obliquebanded Leafroller Brown Marmorated Stink Bug **	1/2 - 1 * (0.45 - 0.9 lb ai/acre)	7
MD, ME, MA, PA, RI, and VT	Restrictions: Do not apply more than 2 pounds (1.8 lb ai) of Lannate SP /acre Do not make more than 2 applications/crop. Reentry Interval (REI): 48 hours * Apply in a minimum of 50 gallons of water per acre. ** Brown marmorated stink bugs are very mobile pests. They m is needed prior to the minimum application interval, use a differ Since Lannate SP is a contact insecticide, follow direct spraying Apply by ground application only and use sufficient water to ob	nay reinfest the treated area quickly. ent insecticide. g of the target pest and the use of th	
Peas (succulent) Including: Pigeon peas Chick peas Garbanzo beans Dwarf peas Garden peas Garen peas English Peas Field peas Edible pod peas	Alfalfa Looper Cabbage Looper * Pea Aphid Beet Armyworm Saltmarsh Caterpillar Variegated Cutworm	1/2 - 1 (0.45 - 0.9 lb ai/acre)	1 Peas 5 Forage 14 Hay
	Alfalfa Caterpillar Armyworm Green Cloverworm	1/4 - 1 (0.23 - 0.9 lb ai/acre)	
	Restrictions: Do not apply more than 3 pounds (2.7 lb ai) of Lannate SP /acre Do not make more than 6 applications/crop; minimum interval be Reentry Interval (REI): 48 hours * Do not use for Cabbage Loopers in AL & GA.		

Crops (Cont.)	Insects	Rate Lannate SP Lbs. Per Acre	Last Application — Days To Harvest
Pecans	Aphids	1/2 - 1 (0.45 - 0.9 lb ai/acre)	30
AL, AR, FL, GA, LA, KY, NC, MS, SC, TN, VA, and WV	Restrictions: Do not apply more than 7 pounds (6.3 lb ai) of Lannate SP /acre/crop. Do not make more than 7 applications/crop. Reentry Interval (REI): 48 hours		
Peppers Including: Bell Hot Pimentos Sweet	Loopers Beet Armyworm Green Peach Aphid Armyworm Fall Armyworm Brown Marmorated Stink Bug *	1/2 - 1 (0.45 - 0.9 lb ai/acre)	3
	Variegated Cutworm	1/4 - 1/2 (0.23 - 0.45 lb ai/acre)	
	European Corn Borer	1 (0.9 lb ai/acre)	
	Restrictions: Do not apply more than 4 pounds (3.6 lb ai) of Lannate SP /ac Do not make more than 8 applications/crop. Reentry Interval (REI): 48 hours * Brown marmorated stink bugs are very mobile pests. They n needed prior to the minimum application interval, use a differe Since Lannate SP is a contact insecticide, follow direct sprayil Use sufficient water to obtain thorough, uniform coverage. Us applications and 5 gallons of water per acre for aerial applications.	nay reinfest the treated area quickly. If nt insecticide. ng of the target pest and the use of the a minimum of 20 gallons of water persons.	e highest labeled rate. er acre for ground
Pomegranates	Omnivorous Leafroller	1 (0.9 lb ai/acre)	14
	Restrictions: Do not apply more than 2 pounds (1.8 lb ai) of Lannate SP /ac Do not make more than 2 applications/crop. Reentry Interval (REI): 48 hours	re/crop.	
Potato	Tuberworm * Loopers Aphids Beet Armyworm Leafhoppers Fall Armyworm	1/2 - 1 (0.45 - 0.9 lb ai/acre)	6
	Variegated Cutworm Flea Beetles	1/2 (0.45 lb ai/acre)	
	Restrictions: Do not apply more than 5 pounds (4.5 lb ai) of Lannate SP /ac Do not make more than 10 applications/crop. Chemigation: Lannate SP may be applied by overhead sprinkl Apply in 0.1 to 0.2 inches of water per acre. See "Chemigation Reentry Interval (REI): 48 hours * Repeat applications of Lannate SP on a 5-7-day schedule, of application schedule of effective insecticides with different more populations as low as possible prior to harvest to reduce the recontrol tuberworm larvae prior to crop senescence or vinekill in the populations.	er chemigation. Use the highest labeled section for more information. If longer as needed, to control tuber with the section may be needed to keep isk of larval damage to the tubers. Faincreases the risk of tuber damage.	vorm populations. An foliar feeding larval
Sorghum	Sorghum Webworm	1/2 * (0.45 lb ai/acre)	14 **
Including: Sudangrass (Except Sweet Sorghum)	Sorghum Midge Apply when 50% bloom and 3-5 days later if needed. Fall Armyworm (Budworm) Beet Armyworm Corn Earworm Armyworm	1/4 - 1/2 * (0.23 - 0.45 lb ai/acre)	
	Restrictions: Do not apply more than 1 pound (0.9 lb ai) of Lannate SP /acre Do not make more than 2 application/crop. Reentry Interval (REI): 48 hours * Minimum of 10 gallons per acre by ground or 2 gallons per a ** Do not apply within 14 days of feeding forage or cutting for	cre by air.	

Crops (Cont.)	Insects	Rate Lannate SP Lbs. Per Acre	Last Application — Days To Harvest
Soybeans	Green Cloverworm Velvetbean Caterpillar Mexican Bean Beetle Corn Earworm Light to moderate infestations	1/8 - 1/4 (0.11 - 0.23 lb ai/acre) (see Insect Predator section)	14 Soybeans 3 Forage 12 Hay
	Moderate to severe Infestations	1/4 - 1/2 (0.23 - 0.45 lb ai/acre)	
	Soybean Aphid	1/6 - 1/3 (0.15 - 0.3 lb ai/acre)	-
	Beet Armyworm Salt Marsh Caterpillar Bean Leaf Beetle Fall Armyworm Thrips Silver Spotted Skipper Light to moderate infestations	1/4 - 3/8 (0.23 - 0.34 lb ai/acre)	
	Moderate to severe infestations	3/8 - 1/2 (0.34 - 0.45 lb ai/acre	
	Brown Marmorated Stink Bug *	1/2 (0.45 lb ai/acre)	
	Do not apply more than 1.5 pounds (1.35 lb ai) of Lannate SP /a Do not make more than 3 applications/crop. Reentry Interval (REI): 48 hours * Brown marmorated stink bugs are very mobile pests. They maneded prior to the minimum application interval, use a differentiance Lannate SP is a contact insecticide, follow direct spraying thorough, uniform coverage. Use a minimum of 20 gallons of way water per acre for aerial applications.	ay reinfest the treated area quickly. If t insecticide. g of the target pest. Use sufficient wa ater per acre for ground applications	ater to obtain and 5 gallons of
Spinach	Alfalfa Loopers Cabbage Looper Beet Armyworm Fall Armyworm	1/2 - 1 (0.45 - 0.9 lb ai/acre)	7
	Variegated Cutworm	1/2 (0.45 lb ai/acre)	
	Restrictions: Do not apply when min. daily temp. is 32° F. or lower. Do not apply to seedlings less than 3" diameter. Do not apply more than 4 pounds (3.6 lb ai) of Lannate SP /acre Do not make more than 8 applications/crop. Reentry Interval (REI): 48 hours		
Sugar Beet	Beet Webworm Flea Beetles Carrion Beetles Beet Armyworm * Aphids * Western Yellowstriped Armyworm *	1/4 - 1 (0.23 - 0.9 lb ai/acre)	30 Tops 21 Roots
	Variegated Cutworm	1/2 (0.45 lb ai/acre)	
	Restrictions: Do not apply more than 5 pounds (4.5 lb ai) of Lannate SP /acre Do not make more than 10 applications/crop. Reentry Interval (REI): 48 hours * Chemigation – Lannate SP may be applied by overhead sprint western yellowstriped armyworm. Use the highest labeled rate of See "Chemigation" section for more information.	kler chemigation to control beet arm of Lannate SP. Apply in 0.1 to 0.2 inc	yworm, aphids, and thes of water per acre.
Summer Squash * Including: Crookneck squash Straightneck squash Scallop squash Vegetable marrow Spaghetti squash Hyotan Cucuzza Hechima	Loopers Tobacco Budworm Beet Armyworm Yellowstriped Armyworm Granulate Cutworm Flea Beetles Cucumber Beetles Melon Aphid Melonworm Pickleworm Fall Armyworm	1/2 - 1 (0.45 - 0.9 lb ai/acre)	1/2 lb 1 day over 1/2 lb 3 days
Chinese okra Bitter melon Balsam pear Balsam apple Chinese cucumber	Restrictions: Do not apply more than 6 pounds (5.4 lb ai) of Lannate SP /acre Do not make more than 12 applications/crop. Reentry Interval (REI): 48 hours * Fruit of the Gourd (Cucurbitaceae) family that are consumed vonce picked cannot be stored, has a soft rind which is easily pegerminate.	, when immature, 100% of the fruit is ϵ	

Crops (Cont.)	Insects	Rate Lannate SP Lbs. Per Acre	Last Application — Days To Harvest
Tangelo, Tangerine CA, AZ, & HI only	Thrips Western Tussock Moth Orange Tortrix Beet Armyworm	1/2 - 1 (0.45 - 0.9 lb ai/acre)	1
	Restrictions: Do not apply more than 3 pounds (2.7 lb ai) of Lannate SP / Do not make more than 4 applications/crop. Reentry Interval (REI): 72 hours	acre/crop.	
Tobacco (Except shade)	Flea Beetle Hornworm	1/4 - 1/2 (0.23 - 0.45 lb ai/acre)	5 Flue cured 14 Air or fire cured
	Loopers Aphids Tobacco Budworm Fall Armyworm	1/2 (0.45 lb ai/acre)	
	Restrictions: Do not apply more than 2.5 pounds (2.25 lb ai) of Lannate S Do not make more than 5 applications/crop. Reentry Interval (REI): 48 hours	SP /acre/crop.	
Tomato (Including Tomatillos *)	Tomato Fruitworm Aphids Hornworm Loopers Beet Armyworm Southern Armyworm Pinworm Armyworm Fall Armyworm Brown Marmorated Stink Bug **	1/2 - 1 (0.45 - 0.9 lb ai/acre)	1
	Variegated Cutworm	1/2 (0.45 lb ai/acre)	
	Reentry Interval (REI): 48 hours * For tomatillos do not apply more than 5 pounds of Lannat ** Brown marmorated stink bugs are very mobile pests. The is needed prior to the minimum application interval, use a di Since Lannate SP is a contact insecticide, follow direct spra Use sufficient water to obtain thorough, uniform coverage. Use sufficient water to obtain thorough applications and 5 gallons of water per acre for aerial applic	ey may reinfest the treated area quickly. ifferent insecticide. aying of the target pest and the use of th Jse a minimum of 20 gallons of water pe	If another application e highest labeled rate.
Turf (For use on sod farms only)	Sod Webworm (after application, sprinkle irrigate for 15 minutes)	1 (0.9 lb ai/acre) (2/5 oz product per 1000 sq. ft.)	
	Restrictions: Do not apply more than 4 pounds (3.6 lb ai) of Lannate SP /acre/crop. Do not make more than 4 applications/crop. Do not graze or feed. Reentry Interval (REI): 48 hours		
Wheat ID, OR, WA only	Armyworms Cereal Leaf Beetle * Aphids **	1/4 - 1/2 (0.23 - 0.45 lb ai/acre)	7
	Brown Marmorated Stink Bug ***	1/2 (0.45 lb ai/acre)	
	Restrictions: Do not apply more than 2 pounds (1.8 lb ai) of Lannate SP/a Do not make more than 4 applications/crop. Chemigation: Lannate SP may be applied by overhead spri marmorated stink bug. Use the highest labeled rate of Lann "Chemigation" section for more information. Reentry Interval (REI): 48 hours * Cereal leaf beetle: Lannate SP can provide contact ovicida label directions. Application should be timed to correspond egg hatch to achieve maximum ovicidal effect. Use on this part of the section of th	inkler chemigation for control of all pests ate SP. Apply in 0.1 to 0.2 inches of wat all effect on cereal leaf beetle eggs when with the appearance of newly laid eggs pest stage (egg) is not currently registere and not under stress from adverse enving Russian wheat aphid need to begin wheney may reinfest the treated area quickly ifferent insecticide.	applied according to or in anticipation of ed in California. ronmental conditions en aphid population is

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Label Code: CD02-637-020

Replaced Label: DuPont SL-1954 042115

EPA accepted 03/17/21

Revisions:

- Added the 'Hazard' statement found on the base label to the booklet label as well; added it to the booklet per LRM Chapter 3, Section C (3-13) which indicates that the "Precautionary Statement, including First Aid and Hazards to Human and Domestic Animals statement" be on both the container label and the detachable booklet. Added as NN per PRN 98-10, page 11 Section IV, parts A & E.
- Related to change of company name, address, and contact information for company 352 accepted by EPA October 4, 2021, the following changes have been made:
 - a. Trademark statement: Updated to " ™®Trademarks of Corteva Agriscience and its affiliated companies"
 - b. Produced For: Updated company name to "Corteva Agriscience LLC"
 - c. Updated company address to "9330 Zionsville Road Indianapolis, IN 46268"
 - d. Throughout label: Updated references to "DuPont" to either "company" or "Corteva Agriscience"