

66330-337

10/6/2010

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

Mr. Bill Washburn
Arysta Life Science
15401 Weston Parkway, Suite 150
Cary, NC 27513

OCT - 6 2010

Subject: Label Notification(s) for Pesticide Registration Notice 98-10

Dear Mr. Washburn:

The Agency is in receipt of your Application(s) for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 dated May 7, 2010 for the following product(s):

Micro Flo Permethrin 3.2 AG Reg. No. 66330-337

The Registration Division (RD) has conducted a review of this request for applicability under PR Notice 98-10 and finds that the label change(s) requested falls within the scope of PRN 98-10. The label has been date-stamped "Notification" and will be placed in our records.

If you have any questions, please contact Linda A. DeLuise at 703-305-5428.

Sincerely,

A handwritten signature in black ink, appearing to read "Richard J. Gebken".

Richard J. Gebken
Product Manager
Insecticide Branch
Registration Division (7504P)

Please read instructions on reverse before completing form.

Form Approved, OMB No. 2070-0060, Approval expires 05-31-98

 EPA United States Environmental Protection Agency Washington, DC 20460	<input type="checkbox"/> Registration <input type="checkbox"/> Amendment <input checked="" type="checkbox"/> Other:	OPP Identifier Number
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Application for Pesticide - Section I

1. Company/Product Number 66330-337	2. EPA Product Manager Mark Suarez	3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Micro Flo Permethrin 3.2 AG	PM# 13	
5. Name and Address of Applicant (Include ZIP Code) Arysta LifeScience North America, LLC 15401 Weston Parkway, Suite 150 Cary, NC 27513 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(I), my product is similar or identical in composition and labeling to: <div style="text-align: center;">NOTIFICATION</div> EPA Reg. No. _____ Product Name OCT - 6 2010	

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below

Explanation: Use additional page(s) if necessary. (For Section I and Section II.)

Notification of label change per June 4, 2009, letter from Environmental Protection Agency. This notification is consistent with guidance in the June 4, 2009 letter and requirements of EPA's regulations at 40 CFR part 156. No other changes have been made to the labeling or the Confidential Statement of Formula for this product. I understand that it is a violation of 18 USC Sec 1001 to willfully make any false statement to EPA. I further understand that if the amendment is not consistent with the requirements of 40 CFR part 156, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

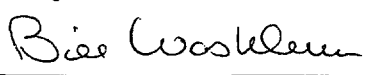
Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No If "Yes" Unit Packaging wgt. No. per container	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No If "Yes" Package wgt. No. per container		<input type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify)	
* Certification must be submitted					
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input type="checkbox"/> On Label <input type="checkbox"/> On labeling accompanying product	
6. Manner in Which Label is Affixed to Product			<input type="checkbox"/> Lithograph <input type="checkbox"/> Other _____ <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled		

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application)

Name Bill Washburn	Title Regulatory Manager	Telephone No. (Include Area Code) 901-432-5118
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I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received (Stamped)
2. Signature 	3. Title Regulatory Manager	
4. Typed Name Bill Washburn	5. Date May 7, 2010	



Arysta LifeScience

May 7, 2010

Mr. Mark Suarez, PM 13
Document Processing Desk (NOTIF -PYRETHROID)
Office of Pesticide Programs – 7504P
U.S. Environmental Protection Agency
Room S-4900, One Potomac Yard
2777 South Crystal Drive
Arlington, VA 22202-4501

**Subject: Micro Flo Permethrin 3.2 AG
EPA Reg. No. 66330-337**

**Notification of label change per June 4, 2009, letter from
Environmental Protection Agency.**

Dear Mr. Suarez:

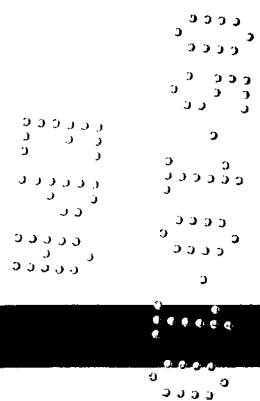
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Enclosed are two copies of the revised label. One clean copy and one copy with changes highlighted. Please acknowledge acceptance of this notification.. Should you have any questions or comments, please do not hesitate to contact me at 901-432-5118 or by e-mail at bill.washburn@arystalifescience.com

Sincerely,

Bill Washburn
Bill Washburn
Regulatory Manager

Arysta LifeScience North America
15401 Weston Parkway, Suite 150, Cary, NC 27513 Phone 919-678-4900 Fax 919-678-2194
www.arystalifescience.com



RESTRICTED USE PESTICIDE
Due to Toxicity to Fish and Aquatic Organisms

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

MICRO FLO PERMETHRIN 3.2 AG

ACTIVE INGREDIENT	
Permethrin*	36.8%
OTHER INGREDIENTS**	63.2%
TOTAL	100.0%

*cis/trans ratio: Max. 42% (±) cis and min. 58% (±) trans
** Contains petroleum distillates.

Contains 3.2 pounds permethrin per gallon as an emulsifiable concentrate

NOTIFICATION

KEEP OUT OF REACH OF CHILDREN

OCT - 6 2010

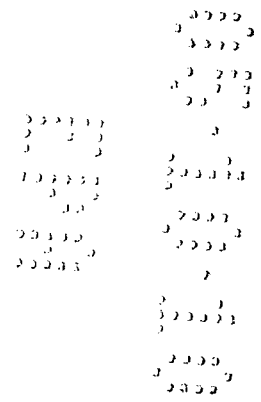
CAUTION

FIRST AID	
IF SWALLOWED	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give any liquid to the person. • Do not give anything by mouth to an unconscious person.
IF ON SKIN OR CLOTHING	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
IF IN EYES	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
IF INHALED	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth to mouth if possible. • Call a poison control center or doctor for further treatment advice.
NOTE TO PHYSICIAN: Contains petroleum distillates – vomiting may cause aspiration pneumonia	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
EMERGENCY TELEPHONE NUMBERS:	
(800) 424-9300	CHEMTREC (transportation and spills)
(866) 303-6952	Human Health
(800) 345-4735	ASPCA (animal health)

EPA Reg. No. 66330-337
EPA Est. No. 51036-GA-001

Net Contents: 1 gallon, 30 gallons, 55 gallons
AD xxxx

Manufactured For:
ARYSTA LIFESCIENCE NORTH AMERICA, LLC
15401 Weston Parkway, Suite 150
Cary, NC 27513



PRECAUTIONARY STATEMENTS

Hazards to Humans & Domestic Animals

CAUTION. Harmful if swallowed, inhaled or absorbed through the skin. Avoid contact with skin, eyes or clothing. Avoid breathing vapor or spray mist. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. Do not allow people or pets on treated surfaces until the spray has dried. Do not touch treated surfaces until the spray has dried.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are barrier laminate or viton. If you want more options follow the instructions for category G on an EPA chemical resistance category selection chart.

Applicators using ULV cold foggers or fog/mist generators in indoor spaces must wear:

- Coveralls over long-sleeved shirt and long pants
- Chemical-resistant gloves
- Chemical resistant footwear plus socks
- Chemical resistant headgear, if overhead exposure

All other mixers, loaders, applicators, and other handlers must wear:

- Long-sleeve shirt and long pants
- Shoes plus socks
- Chemical-resistant gloves for all handlers except for applicators using motorized ground equipment, pilots, and flaggers
- Chemical-resistant apron for mixers/loaders, persons cleaning equipment, and persons exposed to the concentrate

See engineering controls for additional requirements

ENGINEERING CONTROLS

Pilots must use an enclosed cockpit that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(6)]

USER SAFETY RECOMMENDATIONS

Users Should:

Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
 Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
 Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.
 Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.
 Discard clothing and other absorbent materials that have been drenched (except as required by directions for use) or heavily contaminated with this product's concentrate. Do not reuse them.

Environmental Hazards

This pesticide is extremely toxic to aquatic organisms, including fish and invertebrates. To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in clam weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid run off to water bodies or drainage systems. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean water mark. Do not apply when weather conditions favor drift from treated areas. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. ~~Do not contaminate water when disposing of equipment wash waters.~~

Under some conditions, it may also have a potential for transport into surface water in runoff (primarily absorbed to suspended soil particles), for several months or more after application. These include poorly draining or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, and areas overlying extremely shallow groundwater, areas with in-field canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips, and areas overlying tile drainage systems that drain to surface waters.

This pesticide 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.

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

Physical/Chemical Hazards

Do not use or store near heat or open flame.

**DIRECTIONS FOR USE
RESTRICTED USE PESTICIDE**

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.

GENERAL PRECAUTIONS AND RESTRICTIONS:

Do not water the treated area to the point of run-off.

Do not make applications during rain.

Not for use in outdoor residential misting systems.

All outdoor applications must be limited to spot or crack-and-crevice treatments only, except for the following permitted uses:

- 1) Treatment to soil or vegetation around structures;
- 2) Applications to lawns, turf, and other vegetation
- 3) Applications to building foundations, up to a maximum height of 3 feet

Other than applications to building foundations, all outdoor applications to impervious surfaces such as sidewalks, driveways, patios, porches and structural surfaces (such as windows, doors, and eaves) are limited to spot and crack-and crevice applications only.

Application is prohibited directly into sewers or drains, or to any area like a gutter where drainage to sewers, storm drains, water bodies, or aquatic habitat can occur. Do not allow the product to enter any drain during or after application.

Resistance: Repeated use of certain insecticides may create resistance in some target pests, resulting in a decrease of control. PERMETHRIN 3.2 AG should be used in accordance with treatment area-appropriate strategies for resistance management. For further information regarding resistance management strategies for your treatment area, consult local or state pest management authorities.

If you are unable to attain adequate control of a target pest and this loss of control cannot be explained by misapplication or weather extremes, it is possible that resistance has developed within the target population. If this appears to have occurred, promptly seek advice from your pest management advisor or company representation regarding alternative control techniques.

SPRAY DRIFT REQUIREMENTS

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 ¾ the length of the wingspan or rotor.
- 2. 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* section.

Aerial Drift Reduction Advisory

This section is advisory in nature and does not supersede the mandatory label requirements.

Information on Droplet Size

The most effective way to reduce drift potential is to apply large droplets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. 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 below).

Use only Medium or coarser spray nozzles (for ground and non-ULV aerial application) according to ASAE (S572) definition for standard nozzles. In conditions of low humidity and high temperatures, applicators should use a coarser droplet size.

Controlling Droplet Size

- **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. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.
- **Number of nozzles** - Use the minimum number of nozzles that provide uniform coverage.
- **Nozzle Orientation** - Orienting the 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** - 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 potential.

Boom Length

For some use patterns, reducing the effective boom length to less than ¾ 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 upwind and downwind edges of the field, the applicator should 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.).

Wind

Drift potential is lowest between wind speeds of 2 - 10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given speed. Application should be avoided below 2 mph due to variable wind direction and high inversion potential. **NOTE:** Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

Wind Direction and Speed

Only apply this product if the wind direction favors on-target deposition. Do not apply when the wind velocity exceeds 15 mph.

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 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 temperatures 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.

Do not make aerial or ground applications into temperature inversions. Inversions are characterized by stable air and increasing temperatures with height above the ground. Mist or fog may indicate the presence of an inversion in humid areas. The applicator may detect the presence of an inversion by producing smoke and observing a smoke layer near the ground surface.

Additional Requirements for Ground Applications

Wind speed must be measured adjacent to the application site on the upwind side, immediately prior to application. For ground boom applications, apply using a nozzle height of no more than 4 feet above the ground or crop canopy. For airblast applications, turn off outward pointing nozzles at row ends and when spraying the outer two rows. To minimize spray loss over the top in orchard applications, spray must be directed into the canopy.

Additional Requirements for Aerial Applications

The spray boom should be mounted on the aircraft as to minimize drift caused by wingtip or rotor vortices. The minimum practical boom length should be used and must not exceed 75% of the wing span or 80% rotor diameter. Flight speed and nozzle orientation must be considered in determining droplet size.

Spray must be released at the lowest height consistent with pest control and flight safety. Do not release spray at a height consistent with pest control and flight safety. Do not release spray at a height greater than 10 feet above the crop canopy unless a greater height is required for aircraft safety.

When applications are made with a cross-wind, the swath will be displaced downwind. The applicator must compensate for this displacement at the downwind edge of the application area by adjusting the path of the aircraft upwind.

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, nontarget crops) is minimal (e.g., when wind is blowing away from the sensitive areas).

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 on this product that are covered by Worker Protection Standard.

Do not enter or allow worker entry to treated areas during the restricted entry interval (REI) of 12 hours.

PROHIBITION: Harvesting of conifer seed cones is prohibited within 30 days of application.

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
- Shoes plus socks
- Chemical-resistant gloves made of any waterproof material

NON-AGRICULTURAL USE REQUIREMENTS

The requirements of this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Do not enter or allow others to enter until sprays have dried.

Chemigation Use Requirements

Apply this product only through the following types of sprinkler irrigation: center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move irrigation systems. Do not apply this product through any other type of irrigation system. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system.

Crop injury, lack of effectiveness, or illegal residues in the crop can result from non-uniform distribution of treated water. For questions concerning calibration consult the equipment manufacturer or your local State Extension Service representative. A person knowledgeable of the chemigation system and responsible for its operation, or person under the supervision of the person responsible, shall shut the system down and make necessary adjustments should the need arise.

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 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.

MICRO FLO PERMETHRIN 3.2 AG should be applied continuously for the duration of the water application. Precise application to the area to be treated can be achieved by diluting MICRO FLO PERMETHRIN 3.2 AG with adequate water volume. At least 0.1 inch per acre of irrigation water should be used for chemigation. If an appropriate diluent is used, the mixture does not need to be agitated. However, it is possible that phase separation may occur. Be sure to conduct a diluent test to prevent phase separation during dilution and application. A uniform dilution should be used throughout the time of application to avoid unwanted residues or sub-maximum control.

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Commercial Impregnation and Application on Dry Bulk Fertilizers

PERMETHRIN 3.2 EC AG may be impregnated on dry bulk fertilizers as directed. This method will achieve the same insect control to that provided by applying equal rates of MICRO FLO PERMETHRIN 3.2 AG in water.

The mixtures may be used in either a surface application or a shallow incorporation. If incorporation is the preferred method, use the higher application rate for best results.

Impregnation: A minimum of 200 pounds of dry bulk fertilizer per acre and a maximum of 450 pounds per acre should be used with the recommended amount of MICRO FLO PERMETHRIN 3.2 AG. Appropriate equipment must be utilized to prepare and apply the mixture. A closed rotary-drum mixer or a similar closed blender with suitable spray equipment should be used. For comprehensive coverage, position the spray nozzle(s) so that a uniform, fine spray pattern will fall over the tumbling fertilizer. When the liquid is sufficiently absorbed, simple spray impregnation of the fertilizer with MICRO FLO PERMETHRIN 3.2 AG will result in an acceptable, dry mixture. If the fertilizer is not fully absorbing the liquid, use a highly absorptive powder, such as Microcel E (Johnson Manville Product Corporation), to create a dry, flowable mixture. If Microcel E is used, generally less than 2% by weight is required. Straight coated ammonium nitrate or straight limestone will not absorb the insecticide. As such, DO NOT impregnate MICRO FLO PERMETHRIN 3.2 AG onto these materials. Mixtures of ammonium nitrate or limestone in dry fertilizer blends may be impregnated with MICRO FLO PERMETHRIN 3.2 AG.

For each production operation, carefully determine how much MICRO FLO PERMETHRIN 3.2 AG is required to prepare the individual fertilizer mixtures. This way the correct usage rate will be applied to the soil. Do not store bulk fertilizer impregnated with MICRO FLO PERMETHRIN 3.2 AG. Apply immediately.

The individual and/or fertilizer and MICRO FLO PERMETHRIN 3.2 AG mixture retailer are responsible for following all individual state regulations relating to bulk dry fertilizer blending, registration, labeling and application of the mixtures.

GENERAL USE INFORMATION

Important:

MICRO FLO PERMETHRIN 3.2 AG is toxic to fish. Exercise care when making applications near ponds, lakes, streams, reservoirs and other aquatic environments where fish are present.

For advice concerning current control practices with relation to specific local conditions, consult your local State Cooperative Extension or regulatory agencies.

MICRO FLO PERMETHRIN 3.2 AG is formulated as an emulsifiable concentrate (EC) formulation and is to be diluted and applied as an emulsion. When tank mixing as an emulsion with other products, observe all precautions and limitations on the labels of each product in the mixture.

MICRO FLO PERMETHRIN 3.2 AG can be tank-mixed with natural pyrethrin-containing products or Insect Growth Regulators (IGRs). Do not tank mix with dichlorvos (DDVP) or other fumigant products.

DIRECTIONS FOR APPLICATION

Unless otherwise directed by registered supplemental labeling, follow the Directions for Use in each crop group section.

MICRO FLO PERMETHRIN 3.2 AG is a 3.2 pounds per gallon formulation of the insecticide permethrin. This product should be used upon the appearance of insects or feeding. As the insect presence increase, the higher product application rates should be utilized. And apply again as required. Complete coverage of the treated area can be achieved through the use of an adequate amount of water. Do not plant rotational crops within 60 days of last product application, unless the crop falls into one of the following exceptions.

Use of high pressure hand wand is prohibited in mushroom houses.

BUFFER ZONES

Vegetative Buffer Strips

Construct and maintain a minimum 10-foot-wide vegetative filter strip of grass or other permanent vegetation between the field edge and down gradient aquatic habitat (such as, but not limited to, lakes; reservoirs; rivers; permanent streams; marshes or natural ponds; estuaries; and commercial fish farm ponds).

Only apply products containing permethrin onto fields where a maintained vegetative buffer strip of at least 10 feet exists between the field and down gradient aquatic habitat.

For guidance, refer to the following publication for information on constructing and maintaining effective buffers: *Conservation Buffers to Reduce Pesticide Losses. Natural Resources Conservation Services. USDA, NRCS.2000.Fort Worth, Texas.21 pp* <http://www.in.nrcs.usda.gov/technical/agronomy/newcombuf.pdf>

Buffer Zone for Ground Application (groundboom, overhead chemigation, or airblast)

Do not apply within 25 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, streams, marshes, natural ponds, estuaries, and commercial fish ponds).

Buffer Zone for ULV Aerial Application

Do not apply within 450 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, streams, marshes, natural ponds, estuaries, and commercial fish ponds).

Buffer Zone for Non-ULV Aerial Application

Do not apply within 150 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, streams, marshes, natural ponds, estuaries, and commercial fish ponds).

This label must be in possession of the user at the time of application.

RATE CONVERSION CHART

POUNDS ACTIVE PER ACRE	FORMULATION OUNCES PER ACRE
0.05	2.0
0.10	4.0
0.15	6.0
0.20	8.0
0.25	10.0
0.30	12.0

Index to Crops Listed on this Label

Vegetable Crops:

- Artichoke
- Asparagus
- Avocado
- Cole Crops (Brassica Leafy Vegetables)
- Collards and Turnips
- Corn, Sweet
- Corn, Sweet (Florida only)
- Cucurbit Vegetables
- Eggplant
- Horseradish
- Leafy Vegetables (except Brassica)
- Onions, Bulb and Garlic
- Peppers, Bell
- Potatoes
- Tomatoes, Tomatillos

Tree Fruit and Nuts

- Almonds
- Apples
- Cherries
- Filberts
- Papaya (Florida Only)
- Peaches and Nectarines
- Pistachios
- Pears
- Walnuts

Other Crops

- Alfalfa
- Corn (Field), Field Corn Grown for Seed, Popcorn
 - Pre-emergent Use
 - Foliar Use
- Corn (Field), Field Corn Grown for Seed, Popcorn
 - At Plant Use
- Mushrooms
- Range Grass (New Mexico Only)
- Soybeans

Ornamentals

- Chrysanthemum
- Conifers (Container and Field Grown)
- Ornamental Nursery Stock (Field Grown)
- Pine Seed Orchards

11/33

Roses (Field Grown)
 Roses (Greenhouse)
 Lawn and Ornamental Uses
 Other Uses

VEGETABLE CROPS

ARTICHOKE			
CROP	TARGET PESTS	RATE FL OZ/A (LBS A/A)	COMMENTS
Artichoke	Artichoke plume moth Leafminers	4 – 12 (0.1 – 0.3)	Per season, apply no more than 5 times or .9 pounds of active ingredient per acre – 36 oz of formulated product.
<ul style="list-style-type: none"> • Apply by air or ground equipment. By air, apply in a minimum of 2 gallons of water per acre. By ground, apply in a minimum of 10 gallons of water per acre. Use sufficient water to obtain full coverage of foliage. • Applications may be made up to harvest. • Retreatment interval is 10 days. 			

ASPARAGUS			
CROP	TARGET PESTS	RATE FL OZ/A (LBS A/A)	COMMENTS
Asparagus	Asparagus beetle Cutworms	2 – 4 (0.05 – 0.1)	Per season, apply no more than 0.4 pound of active ingredient per acre – 16 oz of formulated product. Make application only after harvest. After spear harvest apply to the fern stage during both the larval and adult stages of the insect. *These instructions do not apply in California for this insect.
	Asparagus beetle Japanese beetle (Adult stage)* Lygus bugs Tarnished plant bug	4 (0.1)	
<ul style="list-style-type: none"> • Apply by ground at least 10 gallons of water per acre. Use sufficient water to obtain full coverage of foliage. • Do not apply within 1 day of harvest. • Retreatment interval is 7 days. 			

AVOCADO			
CROP	TARGET PESTS	RATE FL OZ/A (LBS AI/A)	COMMENTS
Avocado	Avocado caterpillar Avocado lace bug Avocado leafhopper Avocado leafroller Avocado looper Avocado tree girdler Avocado whitefly Brown soft scale Mirids Omnivorous looper Orange tortrix Scale crawlers Spanworm Thrips Twig borers	8 (0.2)	Per season, apply no more than .8 pounds of active ingredient per acre – 32 oz of formulated product. Application should be made upon the first insect appearance. Apply again at 7 to 10 day intervals as required for control.
<ul style="list-style-type: none"> • Use ground equipment only to apply the product in 25-400 gallons of finished spray per acre. • Do not graze livestock in treated areas. • Do not feed cover crops from treated areas to livestock. • Do not apply within 7 days of harvest. • Retreatment interval is 7 days. 			

COLE CROPS – Brassica Leafy Vegetables			
CROP	TARGET PESTS	RATE FL OZ/A (LBS AI/A)	COMMENTS
Broccoli, Chinese Broccoli (gai lan, white flowering broccoli)	Armyworm spp. Cabbage aphid* Cabbage looper Diamondback moth	2 – 8 (0.05 – 0.2)	Apply every 5 days . Per season, apply no more than 0.8 pounds of active ingredient per acre – 32 oz of formulated product.
Brussels Sprouts	Imported cabbageworm Plant bugs Thrips	2- 4 (0.05 - 0.1)	Apply every 5 days. Per season apply no more than 0.4 pounds of active ingredient per acre – 16 oz of formulated product.
Cauliflower; Cavalo broccolo, Kohlrabi		2- 4 (0.05 – 0.1)	Apply every 5 days. Per season apply no more than 0.4 pounds of active ingredient per acre – 16 oz of formulated product. (0.6 in HI – 24 oz of formulated product per season)
Cabbage, Chinese Cabbage (napa, tight-headed varieties only)	Cabbage aphid* Cabbage looper Diamondback moth Imported cabbageworm Southern white butterfly	2 – 8 (0.05 – 0.2)	Apply every 5 days. Per season, apply no more than 0.4 pounds of active ingredient per acre – 16 oz of formulated product . (0.8 in HI – 32 oz of formulated product per season)
	Armyworm spp. Cutworms Flea beetles	4 – 8 (0.1 – 0.2)	
<ul style="list-style-type: none"> • Apply by air or ground equipment. By air, apply in a minimum of 2 gallons of water per acre. By ground, apply in a minimum of 10 gallons of water per acre. Use sufficient water to obtain full coverage of foliage. • Do not apply within 1 day of harvest. • Retreatment interval is 5 days. 			
* Aids in the suppression only			

COLLARDS and TURNIPS			
CROP	TARGET PESTS	RATE FL OZ/A (LBS AI/A)	COMMENTS
Collards (AR, AZ, GA, IL, NC, OK, SC, and TX only)	Beet armyworm Cabbage looper Corn earworm Cutworms Diamond back moth European corn borer Fall armyworm Green cloverworm Imported cabbageworm Leafhoppers Leafminer Southern armyworm Southern white butterfly Tobacco budworm Vegetable leafminer Aphids*	2 – 6 (0.05 – 0.15)	Only ground equipment should be used for application. Do not exceed 8 applications. Per season apply no more than 0.45 pounds of active ingredient per acre – 18 oz of formulated product.
Turnips (FL, GA, IL, IN, OK, SC, TX, and WA only)	Beet armyworm Cabbage looper Corn earworm Cutworms Diamond back moth European corn borer Fall armyworm Green cloverworm Imported cabbageworm Leafhoppers Leafminer Southern armyworm Southern white butterfly Tobacco budworm Vegetable leafminer Aphids*	2 – 6 (0.05 – 0.15)	Only ground equipment should be used for application. Do not exceed 8 applications. . Per season apply no more than 0.45 pounds of active ingredient per acre – 18 oz of formulated product. Do not graze treated areas or feed crop refuse to livestock. SC, GA, FL, WA: Per season, apply no more than 0.4 pounds of active ingredient per acre.
<ul style="list-style-type: none"> • Apply in a minimum of 10 gallons of water per acre. Use sufficient water to obtain full coverage of foliage. • Do not apply within 1 day of harvest. • Retreatment interval is 3 days. <p>* Aids in the suppression only</p>			

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CORN, SWEET			
CROP	TARGET PESTS	RATE FL OZ/A (LBS AI/A)	COMMENTS
Corn, Sweet	Corn earworm Corn rootworm beetles* Cutworms European corn borer Fall armyworm Flea beetle Hop vine borer Leafhoppers Southern armyworm Stalk borers	4 – 8 (0.1 – 0.2)	Per season, apply no more than 0.8 pounds of active ingredient per acre – 32 oz of formulated product. Application should be made every 3 to 5 days. *This insect does not appear on this crop in California
<ul style="list-style-type: none"> • Apply by air or ground equipment. By air, apply in a minimum of 2 gallons of water per acre. By ground, apply in a minimum of 10 gallons of water per acre. Use sufficient water to obtain full coverage of foliage. • Do not apply within 1 day of harvest. • Retreatment interval is 3 days. 			

CORN, SWEET (FLORIDA ONLY)			
CROP	TARGET PESTS	RATE FL OZ/A (LBS AI/A)	COMMENTS
Corn, Sweet	Aster leafhopper Corn earworm Cutworm European corn borer Fall armyworm Southern armyworm	4 – 8 (0.1 – 0.2)	Per season, apply no more than 0.8 pounds of active ingredient per acre – 32 oz of formulated product. Application should be made every 3 to 5 days.
<ul style="list-style-type: none"> • Apply by air or ground equipment. By air, apply in a minimum of 2 gallons of water per acre. By ground, apply in a minimum of 10 gallons of water per acre. Use sufficient water to obtain full coverage of foliage. • Do not apply within 1 day of harvest. • Retreatment interval is 3 days. 			

* CURCUBIT VEGETABLES			
CROP	TARGET PESTS	RATE FL OZ/A (LBS AI/A)	COMMENTS
Cantaloupes	Aphids Leafminers Squash bugs	8 (0.2)	Per season, apply no more than 0.8 pounds of active ingredient per acre -32 oz of formulated product. (1.2 in HI -48 oz of formulated product per season)
Cucumbers Pumpkins Squash (summer, winter) Watermelon *Other listed curcubit vegetables		8 (0.2)	Per season, apply no more than 1.2 pounds of active ingredient per acre - 48 oz of formulated product)
	Cabbage looper Cucumber beetle (adult) Cutworms Leafhoppers Melonworm Pickleworm Plant bugs (including Lygus and Stink bugs) Rindworms Squash vine borer	4 - 8 (0.1 - 0.2)	
<ul style="list-style-type: none"> • Apply by air or ground equipment. By air, apply in a minimum of 4 gallons of water per acre. By ground, apply in a minimum of 20 gallons of water per acre. Use sufficient water to obtain full coverage of foliage. • Apply until harvest time. • Retreatment interval is 7 days. 			
<p>* Cucurbit vegetables include: Chayote (fruit), Chinese waxgourd (Chinese preserving melon), Citron melon, Cucumber, Gherkin, Gourd (edible) (includes cucuzza, hyotan), Luffa spp. (includes Chinese okra, hechima), Momordica spp. (includes balsam apple, balsam pear, bitter melon, Chinese cucumber), Muskmelon (hybrids and/or cultivars of Cucumia melo, including true cantaloupe, cantaloupe, casaba, crenshaw melon, golden pershaw melon, honeydew melon, honey balls, mango melon, Persian melon, pineapple melon, Santa Claus melon, and snake melon), Pumpkin; Summer Squash (includes crookneck squash, scallop squash, straightneck squash, vegetable marrow, zucchini), Winter Squash (includes acorn squash, butternut squash, calabaza, hubbard squash, C. mixta, C. pepo, spaghetti squash), Watermelon (includes hybrids and/or varieties of Citrullus spp.)</p>			

EGGPLANT			
CROP	TARGET PESTS	RATE FL OZ/A (LBS AI/A)	COMMENTS
Eggplant	Colorado potato beetle	6 (0.15)	Per season, apply no more than 0.6 pounds of active ingredient per acre -24 oz of formulated product. (1.0 in HI - 40 oz of formulated product per season)
	Cabbage looper Flea beetles Vegetable leafminer	4 - 6 (0.1 - 0.15)	
<ul style="list-style-type: none"> • Apply by air or ground equipment. By air, apply in a minimum of 2 gallons of water per acre. By ground, apply in a minimum of 10 gallons of water per acre. Use sufficient water to obtain full coverage of foliage. • Do not apply within 3 days of harvest. • Retreatment interval is 7 days 			

HORSERADISH			
CROP	TARGET PESTS	RATE FL OZ/A (LBS AI/A)	COMMENTS
Horseradish	Imported crucifer weevil (Baris lepidii)	0.1% active solution (2 pt, 1 oz per 100 gallons)	Allow 30 minutes for soaking and air-drying when applying before spring planting as a dip.
		6 (0.15)	Use at least 20 gallons finished spray per acre when making a foliar application. Apply with ground equipment. During oviposition, foliar application may be made up to 3 times as to control weevil adults. Retreatment interval is 10 days. Maximum application rate per season is .45 lb/ai per acre – 18 oz of formulated product.
<ul style="list-style-type: none"> Do not apply within 30 days of harvest. 			

* LEAFY VEGETABLES (except Brassica)			
CROP	TARGET PESTS	RATE FL OZ/A (LBS AI/A)	COMMENTS
Celery	Aphids Beet armyworm Corn earworm Cutworms European corn borer	4 – 8 (0.1 – 0.2)	Application should be made every 3-5 days. Per season, apply no more than 1.0 pounds of active ingredient per acre – 40 oz of formulated product. Retreatment interval is 7 days. (1.2 in HI – 48 oz of formulated product per season.
Lettuce	Fall armyworm Green cloverworm Leafminers Southern armyworm Tobacco budworm	4-8 (0.1 – 0.2)	Per season, apply no more than 0.8 pounds of active ingredient per acre – 32 oz of formulated product. Retreatment interval is 7 days. (1.2 in HI – 48 oz of formulated product per season.
Spinach		4-8 (0.1 – 0.2)	Per season, apply no more than 0.6 pounds of active ingredient per acre – 24 oz of formulated product. Retreatment interval is 3 days.
*Other listed Leafy Vegetables		4-8 (0.1 – 0.2)	Per season, apply no more than 0.8 pounds of active ingredient per acre – 32 oz of formulated product. Retreatment interval is 7 days.
	Alfalfa looper Cabbage looper Leafhoppers	2 – 8 (0.05 – 0.2)	
<ul style="list-style-type: none"> Apply by air or ground equipment. By air, apply in a minimum of 2 gallons of water per acre. By ground, apply in a minimum of 10 gallons of water per acre. Use sufficient water to obtain full coverage of foliage. Do not apply within 1 day of harvest. 			
<p>* Leafy vegetables include: Amaranth (Chinese spinach, leafy amaranth, tampala), Arugula (Roquette), Cardoon, Celery, Chinese celery, Celtuce, Chervil, Chrysanthemum (edible-leaved and garland), Corn salad, Garden Cress, Upland Cress (winter cress, yellow rocket), Dandelion, Dock (sorrel), Endive (escarole), Florence fennel (finocchio), Head and Leaf Lettuce, Orach, Parsley, Garden Purslane, Winter Purslane, Radicchio (red chicory), Rhubarb, Spinach, Swiss chard (including Indian spinach, Malabar spinach, New Zealand and vine).</p>			

ONIONS, BULB and GARLIC			
CROP	TARGET PESTS	RATE FL OZ/A (LBS A/A)	COMMENTS
Onion, bulb	Armyworms Onion thrips	6 – 12 (0.15 – 0.3)	<p>Applications should be made upon first pest appearance. As onion thrips pest pressure increases, the higher label rates should be used. Rescue situations should be avoided.</p> <p>Onion: Per season, apply no more than 1.0 pounds active ingredient per acre – 40 oz of formulated product. Retreatment interval is 7 days.</p> <p>Garlic: Per season, apply no more than 0.8 pounds active ingredient per acre – 32 oz of formulation. Retreatment interval is 10 days.</p>
Garlic		6 – 8 (0.15 – 0.20)	
Garlic	Cutworms Leafminers Onion maggots (adults)	6 – 8 (0.15 – 0.20)	
Onion	Stink bugs	4 – 12 (0.1 – 0.3)	
<ul style="list-style-type: none"> • Apply by air or ground equipment. By air, apply in a minimum of 5 gallons of water per acre. By ground, apply in a minimum of 20 gallons of water per acre. Use sufficient water to obtain full coverage of foliage. • Do not apply within 1 day of harvest. 			

PEPPERS, BELL			
CROP	TARGET PESTS	RATE FL OZ/A (LBS A/A)	COMMENTS
Peppers, bell	Cabbage looper Corn earworm Cutworms Flea beetle Pepper weevil Vegetable leafminer	4 – 8 (0.1 – 0.2)	Per season, apply no more than 0.8 pounds of active ingredient per acre – 32 oz of formulated product.
	European corn borer	8 (0.2)	
<ul style="list-style-type: none"> • Apply by air or ground equipment. By air, apply in a minimum of 2 gallons of water per acre. By ground, apply in a minimum of 10 gallons of water per acre. Use sufficient water to obtain full coverage of foliage. • Do not apply within 3 days of harvest. • Retreatment interval is 5 days. 			

POTATOES			
CROP	TARGET PESTS	RATE FL OZ/A (LBS AI/A)	COMMENTS
Potatoes	Aster leafhopper Beet armyworm Cabbage looper Colorado potato beetle Cutworms European corn borer Potato aphid Potato flea beetle Potato leafhopper Potato psyllid Potato tuberworm Tarnished plant bug	4 – 8 (0.1 – 0.2)	Per season, apply no more than 0.8 pounds of active ingredient per acre – 32 oz of formulated product.
<ul style="list-style-type: none"> • Apply by air or ground equipment. By air, apply in a minimum of 2 gallons of water per acre. By ground, apply in a minimum of 10 gallons of water per acre. Use sufficient water to obtain full coverage of foliage. • Refined non-volatile vegetable oil may be used to apply MICRO FLO PERMETHRIN 3.2 AG to establish pest control. To use this method, dilute MICRO FLO PERMETHRIN 3.2 AG with oil. Using equipment calibrated for thorough coverage, apply the diluted mixture in a minimum of one quart total volume per acre. • Do not apply within 14 days of harvest. • Retreatment interval is 10 days. 			

TOMATOES, TOMATILLOS			
CROP	TARGET PESTS	RATE FL OZ/A (LBS AI/A)	COMMENTS
Tomatoes Tomatillos	Beet armyworm Cabbage looper Colorado potato beetle Granulate cutworm Hornworms Southern armyworm Tomato fruitworm Tomato pinworm Vegetable leafminers	2 – 8 (0.05 – 0.2)	Per season, apply no more than 0.6 pounds of active ingredient per acre – 24 oz of formulated product. (0.8 in HI – 32 oz of formulated product per season) Do not apply to cherry tomatoes or other varieties producing fruit smaller than one inch in diameter.
<ul style="list-style-type: none"> • Apply by air or ground equipment. By air, apply in a minimum of 2 gallons of water per acre. By ground, apply in a minimum of 10 gallons of water per acre. Use sufficient water to obtain full coverage of foliage. • May be applied up until harvest. • Retreatment interval is 7 days. 			

TREE FRUIT AND NUTS

ALMONDS			
CROP	TARGET PESTS	RATE FL OZ/A (LBS A/A)	COMMENTS
Almonds	Navel orangeworm Peach twig borer	8 - 10 (0.2 -.25)	Make application upon first insect appearance. Apply by air or ground equipment. By air, apply in a minimum of 15 gallons of water per acre. By ground, apply in 25-400 gallons of finished spray per acre.
	Ants	10 (0.25)	Use only ground equipment. Per acre, apply product in a minimum of 15 gallons of water. To obtain the greatest soil surface coverage, apply after mowing weed growth. After application, pesticide activity can be improved through the use of overhead moisture.
<ul style="list-style-type: none"> • During hull split, apply at most 0.25 lb. a.i./A – 10 oz of formulated product. • Per season, apply no more than .75 lb. a.i./A. - 30 oz of formulated product. • Do not graze livestock in treated areas. • Do not feed cover crops from treated areas to livestock. • Do not apply within 7 days of harvest. • Retreatment interval is 10 days 			

APPLES			
CROP	TARGET PESTS	RATE FL OZ/A (LBS A/A)	COMMENTS
Apples	Green fruitworm Oblique banded leafroller Plum curculio Redbanded leafroller Rosy apple aphid Spotted tentiform leafminer Tarnished plant bug White apple leafhopper	4 – 10 (0.1 – 0.25)	Per season, apply no more than 0.5 pound of active ingredient per acre – 20 oz of formulated product. Make application upon first insect appearance.
<ul style="list-style-type: none"> • Apply by ground equipment only. Per acre, use 25-400 gallons of finished spray. • Do not apply after petal fall. • Do not graze livestock in treated areas. • Do not feed cover crops from treated areas to livestock. • Retreatment interval is 10 days. 			

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CHERRIES			
CROP	TARGET PESTS	RATE FL OZ/A (LBS AI/A)	COMMENTS
Cherries (including Sweet Cherries and Tart Cherries)	Green fruitworm Lesser peach tree borer Plum curculio Redbanded leafroller Rose chafer Tarnished plant bug	4 – 8 (0.1 – 0.2)	Make application upon first insect appearance. Maximum application rate per season is .6 lbs ai/A – 24 oz of formulated product . Make no more than 6 applications in total and no more than 4 applications after petal fall in areas east of the Rocky Mountains. In areas west of the Rocky Mountains: Maximum application rate per season is .6 lbs ai/A – 24 oz of formulated product Make no more than 4 applications in total and no more than 3 applications after petal fall in areas west of the Rocky Mountains.
<ul style="list-style-type: none"> • Apply by ground equipment only. Per acre, use 25-400 gallons of finished spray. • Do not graze livestock in treated areas. • Do not feed cover crops from treated areas to livestock. • Do no apply within 7 days of harvest. • Retreatment interval is 10 days. 			
FILBERTS			
CROP	TARGET PESTS	RATE FL OZ/A (LBS AI/A)	COMMENTS
Filberts	Filbertworm Oblique banded leafroller	8 – 10 (0.2 – 0.25)	Per season, apply no more than 0.75 pounds of active ingredient per acre – 30 oz of formulated product. Make application upon first insect appearance.
<ul style="list-style-type: none"> • Apply by air or ground equipment. By air, apply in a minimum of 10 gallons of water per acre. By ground, apply in 25-400 gallons of finished spray per acre. • Do not graze livestock in treated areas. • Do not feed cover crops from treated areas to livestock. • Do no apply within 14 days of harvest. 			
PAPAYA (Florida Only)			
CROP	TARGET PESTS	RATE FL OZ/A (LBS AI/A)	COMMENTS
Papaya	Aphids Brown soft scale Mealybug Papaya fruit fly Papaya webworm Papaya whitefly Scale crawlers	6 (0.15)	Per season, apply no more than 0.75 pounds of active ingredient per acre – 30 oz of formulated product. Spray to wet all foliage. Make application upon first insect appearance.
<ul style="list-style-type: none"> • Apply by ground equipment only. Per acre, use 25-400 gallons of finished spray. • Do not graze livestock in treated areas. • Do not feed cover crops from treated areas to livestock. • Do no apply within 7 days of harvest. • Reapplication interval is 10 days. 			

PEACHES and NECTARINES			
CROP	TARGET PESTS	RATE FL OZ/A (LBS AI/A)	COMMENTS
Peaches Nectarines	Green fruitworm Lesser peach tree borer Oriental fruit moth Peach twig borer Plum curculio Rose chafer Tarnished plant bug	4 – 10 (0.1 – 0.25)	Per season, apply no more than .75 pounds of active ingredient per acre – 30 ounces of formulated product. Use appropriate spray equipment to wet all foliage.
<ul style="list-style-type: none"> • Apply by air or ground equipment. By air, apply in a minimum of 10 gallons of water per acre. By ground, apply in 25-400 gallons of finished spray per acre. • Do not graze livestock in treated areas. • Do not feed cover crops from treated areas to livestock. • Do not apply within 14 days of harvest. • Retreatment interval is 10 days. 			

PEARS			
CROP	TARGET PESTS	RATE FL OZ/A (LBS AI/A)	COMMENTS
Pears (Dormant through Delayed Dormant)	Pear psylla	8 – 16 (0.2 – 0.4)	Per season, apply no more than 0.65 pound of active ingredient per acre – 26 oz of formulated product. Between 2 and 8 gallons of spray oil per acre can also be used with the product. Make applications only from the dormant growth period to the delayed dormant growth period.
Pears (Pre-Bloom)	Codling moth Green fruitworm Pear psylla	8 – 10 (0.2 – 0.25)	Per season, apply no more than 0.65 pound of active ingredient per acre – 26 oz of formulated product. From the dormant stage through bud burst stage, make pre-bloom spray applications.
<ul style="list-style-type: none"> • Apply by air or ground equipment. By air, apply in a minimum of 10 gallons of water per acre. By ground, apply in 25-400 gallons of finished spray per acre. Use sufficient water to obtain uniform coverage. • Do not graze livestock in treated areas. • Do not feed cover crops from treated areas to livestock. • Retreatment interval is 10 days. 			

PISTACHIOS			
CROP	TARGET PESTS	RATE FL OZ/A (LBS AI/A)	COMMENTS
Pistachios	Leaffooted bugs Naval orangeworm Peach twig borer Plant bugs Stink bugs	8 – 12 (0.2 – 0.3)	To achieve comprehensive foliage coverage, an adequate amount of water should be used.
	Ants	12 (0.3)	To obtain the greatest soil surface coverage, apply after mowing weed growth. After application, pesticide activity can be improved through the use of overhead moisture.
<ul style="list-style-type: none"> • Apply by air or ground equipment. By air, apply in a minimum of 10 gallons of water per acre. By ground, apply in 25-400 gallons of finished spray per acre. • Do not apply after 10% hull split. • Per season, apply no more than .9 pounds of active ingredient per acre – 36 oz of formulated product. • Do not graze livestock in treated areas. • Do not feed cover crops from treated areas to livestock. • May be applied up until harvest. • Retreatment interval is 10 days. 			

WALNUTS			
CROP	TARGET PESTS	RATE FL OZ/A (LBS A/A)	COMMENTS
Walnuts	Codling moth Navel orangeworm Walnut husk fly	8 – 10 (0.2 – 0.25)	Per season, apply no apply more than .75 pounds of active ingredient per acre – 30 oz of formulated product. Make application upon first insect appearance
<ul style="list-style-type: none"> Apply by air or ground equipment. By air, apply in a minimum of 10 gallons of water per acre. By ground, apply in 25-400 gallons of finished spray per acre. Use sufficient water to obtain uniform coverage. Do not graze livestock in treated areas. Do not feed cover crops from treated areas to livestock. Do not apply within 1 day of harvest. Retreatment interval is 10 days. 			

OTHER CROPS

ALFALFA			
CROP	TARGET PESTS	RATE FL OZ/A (LBS A/A)	COMMENTS
Alfalfa Alfalfa grown for seed (Includes birdsfoot trefoil, esparcet, holy clover, lucerne, sainfoin and varieties and/or hybrids of these)	Alfalfa caterpillar Armyworms Blue alfalfa aphid Cutworms Green cloverworm Green peach aphid Loopers Pea aphid Spotted alfalfa aphid Velvetbean caterpillar Webworms	2 – 8 (0.05 – 0.2)	Per cutting, apply no more than 0.2 pound of active ingredient – Maximum seasonal application is 8 oz of formulated product per season. If pest population mounts or when greater residual pest control is desired, the higher recommended dosage should be used. Avoid application when bees are actively foraging by applying during the early morning or during the evening hours.
	Alfalfa weevil Cucumber beetle Egyptian alfalfa weevil Meadow spittlebug Plant bugs (including <i>Lygus</i> spp.) Potato leafhopper Stink bugs	4 – 8 (0.1 – 0.2)	
<ul style="list-style-type: none"> Apply by air or ground equipment. By air, apply in a minimum of 2 gallons of water per acre. By ground, apply in a minimum of 10 gallons of water per acre. Use higher gallonage, 5-10 gallons by air or 20 by ground, of finished spray per acre when foliage is dense and/or when pest populations are high. May be applied up until harvest when rates of 0.1 pound per active per acre or less are used. Do not apply within 14 days of harvest if a rate higher than 0.1pound active ingredient per acre is used. Apply only to fields planted to pure stands of alfalfa. Retreatment interval is 30 days. 			

CORN (FIELD), FIELD CORN GROWN FOR SEED, POPCORN			
CROP	TARGET PESTS	RATE FL OZ/A (LBS ai/A)	COMMENTS
Field Corn, Field corn grown for seed, Popcorn (Pre-emergent Use)	Armyworm Cutworm Stalk borers	For broadcast spray: 4 – 6 (0.1 – 0.15) For 1000 linear feet rows (based on a 4" band and 40" row spacing): 0.3 – 0.6 fl oz/A (0.0075- 0.015 lbs ai/A)	The following are permissible applications: preplant incorporated, pre-emergence, or at planting time. Apply in the time period from 5 days prior to planting up to emergence of the crop. Application can be made by ground or air using a broadcast spray or 4-15 inch band with adequate spray volume to ensure comprehensive coverage. Calculate linear rows in proportion to the standard Band Width/Row Width formula. This will allow rate adjustments to be made for different bandwidths or row spacings. When incorporating into the soil, higher rates should be used. However, the recommended dosage should not be exceeded. Abide by all restrictions and precautions on product labels when using tank mixes. To keep the phase separation, constantly agitate the solution during mixing and application.
Field Corn, Field Corn Grown for Seed, Popcorn (Foliar Use)	Armyworm (including Fall Armyworm) Corn borer European, Southwestern Corn earworm Corn rootworm beetles Cutworm Flea beetle Hop vine borer Stalk borers Webworms Western bean cutworm	4 – 6 (0.1 – 0.15) 2 – 4 (0.05 – 0.1)	Per season, apply no more than 0.45 pound of active ingredient per acre – 18 oz of formulated product. Do not make treatments less than 7 days apart. For control of stalk borers: Treat when, or shortly before, the stalk borer larvae are moving into the corn from surrounding weeds and grasses. Movement can be instigated by mowing or burndown herbicide. For control of corn earworm: Treat immediately prior to silking.
<ul style="list-style-type: none"> • Apply by air or ground equipment. By air, apply in a minimum of 2 gallons of water per acre. By ground, apply in a minimum of 10 gallons of water per acre. Use sufficient water to obtain full coverage of foliage. • Do not apply within 30 days of harvest of grain or fodder (stover). • On the day of application, forage harvesting is permitted. • Retreatment interval is 7 days. 			

CORN (FIELD), FIELD CORN GROWN FOR SEED, POPCORN			
CROP	TARGET PESTS	RATE FL OZ/A (LBS ai/A)	COMMENTS
Field Corn, Field corn grown for seed, Popcorn (At Plant Use)	Armyworm Cutworm Seed corn maggot* Wireworm*	For 1000 linear feet of rows: 0.3 fl oz/A (0.0075 ai/A)	The following are permissible applications: In furrow, band or T-band treatment using a minimum 4" band. MICRO FLO PERMETHRIN 3.2 AG requirements per acre can be established using the following table. * This product may not be used in California for these pests.
Row Spacings (inches)		MICRO FLO PERMETHRIN 3.2 AG (ounces per acre)	MICRO FLO PERMETHRIN 3.2 AG (pounds ai per acre)
40		4.0	0.10
30 or less		6.0	0.15

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MUSHROOMS (Mushroom Houses and Adjacent Premise Areas)			
CROP	TARGET PESTS	RATE OZ (LBS AI)	COMMENTS
Mushrooms (including mushroom houses and adjacent premise areas)	Mushroom flies (Sciariid and Phorid adults)	2 – 2.5 (0.05 – 0.0625)	Before fogging, prepare the building as follows: (1) Shut all doors, windows, and ventilators, (2) Lock or barricade all entrances, (3) extinguish all pilot lights, (4) put up warning signs, and (5) take appropriate measures to prevent persons and animals from entering the area. Treat during the following periods: prior to filling the house, during cool-down, during spawning, up to pinning, and between breaks. Do not apply when mushrooms are present. When flies are present make application once per day. Prior to pinning of first break, make no more than 20 applications. Between each break make no more than two applications. No more than 30 applications total per crop of 5 breaks should be applied. Limit exposure time to 1 hour. After exposure ventilate the house using fans in houses without forced air circulation. A respirator should be worn. Wear a respirator equipped with either an organic vapor-removing cartridge and a pre-filter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C) or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G)
<ul style="list-style-type: none"> • Make applications in 30 ounces of water or appropriate diluent in a ratio of 1 quart of solution per standard double house (35,000 cu. ft.: 8000 sq. ft.). • Make applications as a fogging or aerosol treatment. • Do not apply within 3 days of harvest. 			

RANGE GRASS (New Mexico Only)			
CROP	TARGET PESTS	RATE FL OZ/A (LBS A/A)	COMMENTS
Range Grass (New Mexico only)	Range caterpillar	0.4 (0.1)	Do not apply more than once per year. The presence of cattle is permitted during application.
<ul style="list-style-type: none"> • Apply by air or ground equipment. By air, apply in a minimum of 2 gallons of water per acre. By ground, apply in a minimum of 10 gallons of finished spray per acre. For even coverage, adequate volume should be used. • Do not harvest or feed hay to livestock. 			

SOYBEANS			
CROP	TARGET PESTS	RATE FL OZ/A (LBS AI/A)	COMMENTS
Soybeans	Bean leaf beetle	2 - 8	Per season, apply no more than 0.4 pound of active ingredient per acre - 32 oz of formulation. Do not graze treated areas. Do not graze or feed soybean forage or hay.
	Cabbage looper	(0.05 - 0.2)	
	Corn rootworm beetle	4 - 8	
	Cutworms	(0.1 - 0.2)	
	Flea beetle		
	Green cloverworm		
	Japanese beetle		
	Mexican bean beetle		
	Potato leafhopper		
	Saltmarsh caterpillar (Woollybear caterpillar)		
	Thistle caterpillar		
	Velvetbean caterpillar		
	Beet armyworm		
	Corn earworm		
	Soybean looper		
	Webworms		
<ul style="list-style-type: none"> • Apply by air or ground equipment. By air, apply in a minimum of 2 gallons of water per acre. By ground, apply in a minimum of 10 gallons of water per acre. • Refined non-volatile vegetable oil may be used to apply MICRO FLO PERMETHRIN 3.2 AG to establish pest control. To use this method, dilute MICRO FLO PERMETHRIN 3.2 AG with oil. Using equipment calibrated for thorough coverage, apply the diluted mixture in a minimum of one quart total volume per acre. One quart of oil may be substituted for 1 quart of water per gallon of finished spray for aerial application in water. • Do not apply within 60 days of harvest. • Retreatment interval is 10 days. 			

ORNAMENTALS

CHRYSANTHEMUMS			
CROP	TARGET PESTS	RATE OZ (LBS AI)	COMMENTS
Chrysanthemums	Liriomyza leafminer flies	Per 100 gallons of water: 20 (0.5)	Avoid spraying blooms. Applications can be made every 7 days.
<ul style="list-style-type: none"> • Caution: MICRO FLO PERMETHRIN 3.2 AG has an excellent plant safety profile; but not all cultivars have been tested with this product. Therefore, before treating large numbers of plants of a particular cultivar, a small number of plants should be tested. Await results before applying to the remaining plants. 			

CONIFERS (Container and Field Grown)			
CROP	TARGET PESTS	RATE FL OZ/A (LBS AI/A)	COMMENTS
Conifers (container and field grown)	Nantucket pine tip moth	4 – 8 (0.1 – 0.2)	Applications should be made upon first pest appearance. Apply at 5 to 7 day intervals.
<ul style="list-style-type: none"> MICRO FLO PERMETHRIN 3.2 AG may be applied in a non-volatile vegetable oil or water. To use this method, dilute MICRO FLO PERMETHRIN 3.2 AG in a minimum of 1 gallon of finished spray per acre. Apply with equipment calibrated to provide sufficient coverage. 			

ORNAMENTAL NURSERY STOCK (Field Grown)			
CROP	TARGET PESTS	RATE OZ (LBS AI)	COMMENTS
Ornamental nursery stock (field grown)	Bagworm Beet armyworm Cabbage looper Citrus thrips Lace bug Leafhoppers Leafminers Whiteflies	Per 100 gallons of water: 4 – 8 (0.1 – 0.2)	For pest control on non-edible ornamentals and non-bearing plants of fruiting species MICRO FLO PERMETHRIN 3.2 AG may be applied by air or ground equipment using sufficient spray volume to obtain uniform coverage. By air, apply in a minimum of 2 gallons of water per acre. By ground, apply in a minimum of 10 gallons of finished spray per acre.
<ul style="list-style-type: none"> Caution: Salvia, Dieffenbachia and Pteris Fern may experience a minimal amount of leaf burn. Additionally, petal browning may occur upon blooming plants application. Caution: MICRO FLO PERMETHRIN 3.2 AG has an excellent plant safety profile; but not all cultivars have been tested with this product. Therefore, before treating large numbers of plants of a particular cultivar, a small number of plants should be tested. Await results before applying to the remaining plants. 			

CROP	TARGET PESTS	RATES / COMMENTS
Pine seed orchards	Coneworms Seed bugs	Ground (low and high volume applications) : Use 8-6 fluid oz of product/treated acre (0.2-0.4 lb ai/treated acre) using a final carrier solution of 25-400 gallons depending on the type of sprayer system being used. Make up to three applications per season. Air: Use 24 fluid oz of product/treated acre (0.6 lb ai/treated acre). Apply in a minimum of 5 gallons of finished spray per acre. Apply once per season.

ROSES (Field Grown)			
CROP	TARGET PESTS	RATE FL OZ/A (LBS AI/A)	COMMENTS
Roses (field grown)	Heliothis spp.	4 – 8 (0.1 – 0.2)	A small number of plants should be treated under local conditions to determine plant safety.
<ul style="list-style-type: none"> Apply by air or ground equipment. By air, apply in a minimum of 2 gallons of water per acre. By ground, apply in a minimum of 10 gallons of finished spray per acre. 			

ROSES (Greenhouse)			
CROP	TARGET PESTS	RATE OZ (LBS AI)	COMMENTS
Roses (greenhouse)	Beet armyworm Cabbage looper Omnivorous leafroller	Per 100 gallons of water: 8 (0.2)	For pest control, mix volume of spray material, based on the 100 gallon use rate, adequate to obtain uniform coverage. Spray roses to attain maximum coverage using standard spray equipment (for example pump up or pressurized sprayer) and standard application nozzles (for example flat fan nozzles).
<ul style="list-style-type: none"> Several greenhouse rose varieties are not subject to harm from MICRO FLO PERMETHRIN 3.2 AG. These varieties include: Ballena, Bettina, Cara Mia, Coquette, Excitement, Forever Yours, G. Wave, Jack Frost, Jr. Bridesmaid, Matador, Paul's Pink, Samantha, Seventeen, Sonia, Town Crier, Tropicana and Visa. For additional varieties test MICRO FLO PERMETHRIN 3.2 AG on a few under local conditions. Await results to ensure plant safety before commercial use. 			

LAWN and ORNAMENTAL USES -- Greenhouses, Interiorscapes, Lawns, Field and Container Grown Nursery Stock, Plantscapes, Shrubs, and Trees

For control of Insects on ornamentals, lawns and perimeters around buildings (commercial, industrial, institutional, public and residential), parks and recreational areas, including athletic fields.

PLANT	TARGET PESTS	APP. RATE (FL. OZ.)	COMMENTS
Ornamental Plants, including: Evergreens; Flowering plants; Foliage; Greenhouses; Non-bearing plants of fruiting species in landscaped areas around buildings; Non-crop areas; Nurseries; Plants intended for aesthetic purposes in interior gardens and plantscapes; Woody and herbaceous non-edible ornamentals	Ants Aphids Bagworm Beet Armyworm Birch Leafminer Cabbage Looper Cankerworms Citrus Thrips Coneworms* Fungus Gnat Gypsy Moth Caterpillars Heliothis spp Japanese Beetles Lace Bug Leaf Feeding Caterpillars Leafhoppers Leafminers Leaf rollers Lygus Bugs Mealybugs Nantucket Pine Tip Moth* Pine Sawflies Plant Bugs Root Weevils (Adult) Seed bugs* Tent Caterpillars Webworms Whiteflies Zimmerman Pine Moth	4-8 / 100 gallons - or - 4-8 / acre as a broadcast	For even coverage, adequate volume should be used. As the insect presence becomes moderate to high, the higher product application rates should be utilized. Caution: Salvia, Dieffenbachia and Pteris Fern may experience a minimal amount of leaf burn. Additionally, petal browning may occur upon blooming plants application. Coneworms, Nantucket pine tip moth and seed bugs in evergreens: Make the first application at first emergence of adult pests and repeated every 5 to 7 days. Make first application to webbing coneworms slightly before peak pollen flight. Make first application to other coneworms and seed bugs within 30 days after female flower closure. Per-tree applications of 5-10 gallons should be made at a rate of 8 fl. oz. in 100 gallons of water.
Ornamental Trees	Clearwing moth borers: Ash borer, Banded Ash Clearwing, Dogwood borer, Lesser peachtree borer, Lilac borer, Oak borer, Peachtree borer, Rhododendron borer	1-2 / 100 gallons	Prior to appearance of adult pests, apply to the trunk and lower branches of target trees. Do not apply this product to the point of run-off. Geography, environmental conditions and the conditions of the host tree will affect emergence. Optimum control is achieved by careful and complete spray coverage of the bark from the base of the trunk to the scaffold limbs.
	Bark Beetles: Dendroctonus spp., Ips spp., Elm bark beetles, Mountain pine beetle, Pine engravers, Turpentine beetles, Western pine beetle Coleopteran borers: Bronze birch borer, Flatheaded appletree borer	2-5 / 100 gallons	Prior to appearance of adult pests, apply to the trunk and lower branches of target trees. Do not apply this product to the point of run-off. Geography, environmental conditions and the conditions of the host tree will affect emergence. Optimum control is achieved by careful and complete spray coverage of the bark from the base of the trunk to the scaffold limbs.

PLANT	TARGET PESTS	APP. RATE (FL. OZ.)	COMMENTS
Lawns: Around buildings (commercial, industrial, institutional, public and residential), grass nurseries, parks and recreational areas, including athletic fields	Ants Ant Mounds Armyworm Centipedes Chinchbugs Crickets Earwigs Fire Ants Firebrats Fleas ¹ Ground beetles Millipedes Mole Crickets Pillbugs Scorpions Silverfish Sod Webworm Sowbugs Spiders	0.4-0.8 / 1000 sq. ft.	Use 4-25 gallons of spray volume when making applications. As the insect presence becomes moderate to high, the higher product application rates should be utilized. Per year, apply no more than 2.0 pound of active ingredient per acre. ¹ Fleas: For greater residual control and quick knockdown of fleas, or if the target area is subject to arid weather conditions, lawn height exceeds 3 inches, or lawn is overly dense, the higher application rates should be utilized. Application penetration may be augmented by use of this product with compatible wetting agents or surfactants.

- All outdoor applications must be limited to spot or crack-and-crevice treatments only, except for the following permitted uses:
 - 1) Treatment to soil or vegetation around structures;
 - 2) Applications to lawns, turf, and other vegetation;
 - 3) Application to building foundations, up to a maximum height of 3 feet.
- Other than applications to building foundations, all outdoor applications to impervious surfaces such as sidewalks, driveways, patios, porches and structural surfaces (such as windows, doors, and eaves) are limited to spot and crack-and-crevice applications, only.

OTHER USES

PREMISES (Agricultural Use Only)			
SITE	TARGET PESTS	APP. RATE	COMMENTS
For Application In: Barns, Dairies, Feedlots, Poultry houses, Swine and Livestock houses, Stables	House flies, Stable flies and other manure breeding flies Also facilitates control of Cockroaches, Mosquitoes and Spiders	4 oz. to 12.5 gallons of water Apply by sprayer at 1 gallon per 750 sq. ft. of space	Only residual surface application may be made by spraying walls and ceiling directly. Do not apply more than once every 14 days. Do not treat manure or litter.

- Residual fly spraying to lessen or eradicate fly breeding sites should be used only as a supplement to proper manure management and general sanitation.
- Do not apply directly to livestock or poultry.
- Do not allow pesticide to contaminate feed or water.
- When used in dairy barns or facilities: Close milk bulk tank lids to prevent contamination from Micro Flo Permethrin 3.2 AG.

STORAGE AND DISPOSAL

Store this product at temperatures above 40°F (5°C).

Thoroughly agitate container prior to use if possible. In the event of crystal formation, place pesticide in a room at ambient temperature 70°F (21°C) until crystals dissolve.

Do not use or store near heat or open flame.

Keep this product out of reach of children and animals at all times. Store this product in a cool, dry place in its original container only. Do not expose the product to excessive heat. Open the product container carefully and, after use, replace the container lid by thoroughly tightening the screw cap. Keep product containers tightly closed when not in use. Damaged or leaking containers should be discarded. Do not put concentrated or diluted product into containers that are used for food or drink.

For safety and prevention of unauthorized use store all pesticides in locked facilities. To prevent accidental misuse store different pesticides in separate areas with enough distance between the pesticides to provide clear identification.

To Contain a Spill: Surround the spill with a barrier and then absorb the liquid by covering it with cat litter, sand or a commercial clay. If the product is dry material, cover the spilled product to prevent the material from spreading. If the product container is damaged, place the entire container along with the product in a secure receptacle and clearly label the contents. For any type of product spill, avoid contact with the spilled product and evacuate the area, keeping all unprotected persons and animals at a safe distance.

Pesticide Disposal

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

Container Disposal

Metal and Plastic Containers: Non-refillable containers. Do not reuse or refill these containers. Offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by other approved State and Local procedures. Triple rinse containers (or equivalent) promptly after emptying.

For containers equal to or less than 5 gallons: Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

For containers greater than 5 gallons: Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over on its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

For Returnable/Refillable Sealed Containers: Refillable containers. Refill these containers with pesticide only. Do not reuse these containers for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. Do not empty remaining formulated product. Do not break seals. Return intact to point of purchase.

ATTENTION

Dealers Must Sell in Original Packages Only

Warranty and Disclaimer Statement

The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Such risks may arise from weather conditions, soil factors, off-target movement, unconventional farming techniques, the presence of other materials, the manner of use or application, or other unknown factors, all of which are beyond the control of Arysta LifeScience North America, LLC ("Arysta"), and can cause crop injury, injury to non-target crops or plants, ineffectiveness of the product, or other unintended consequences. To the extent consistent with applicable law, all such risks shall be assumed by the user or buyer.

Arysta warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks described above, when used in accordance with the Directions for Use under normal conditions. This warranty does not extend to the use of this product contrary to label instructions or under conditions not reasonably foreseeable to Arysta, and is subject to the inherent risks described above.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, ARYSTA DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, ARYSTA, MANUFACTURER, AND SELLER DISCLAIM AND SHALL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL, INDIRECT, OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE, HANDLING, APPLICATION, STORAGE, OR DISPOSAL OF THIS PRODUCT OR FOR DAMAGES IN THE NATURE OF PENALTIES, AND THE USER AND BUYER WAIVE ANY RIGHT THAT THEY MAY HAVE TO SUCH DAMAGES. NO AGENT, REPRESENTATIVE OR EMPLOYEE OF ARYSTA IS AUTHORIZED TO MAKE ANY WARRANTY, GUARANTEE OR REPRESENTATION BEYOND THOSE CONTAINED HEREIN OR TO MODIFY THE WARRANTIES CONTAINED HEREIN. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE TOTAL LIABILITY OF ARYSTA, MANUFACTURER, AND SELLER, SHALL BE LIMITED TO THE PURCHASE PRICE PAID, OR AT ARYSTA'S ELECTION, THE REPLACEMENT OF THE PRODUCT.

RESTRICTED USE PESTICIDE

Due to Toxicity to Fish and Aquatic Organisms

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

MICRO FLO PERMETHRIN 3.2 AG

ACTIVE INGREDIENT

Permethrin*36.8%

OTHER INGREDIENTS**63.2%

TOTAL100.0%

*cis/trans ratio: Max. 42% (±) cis and min. 58% (±) trans

** Contains petroleum distillates.

Contains 3.2 pounds permethrin per gallon as an emulsifiable concentrate.

KEEP OUT OF REACH OF CHILDREN

CAUTION

FIRST AID

IF SWALLOWED	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give any liquid to the person. • Do not give anything by mouth to an unconscious person.
IF ON SKIN OR CLOTHING	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
IF IN EYES	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
IF INHALED	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth to mouth if possible. • Call a poison control center or doctor for further treatment advice.

NOTE TO PHYSICIAN: Contains petroleum distillates – vomiting may cause aspiration pneumonia

HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

EMERGENCY TELEPHONE NUMBERS:

(800) 424-9300 CHEMTREC (transportation and spills)
 (866)303-6952 Human Health
 (800) 345-4735 ASPCA (animal health)

PRECAUTIONARY STATEMENTS

Hazards to Humans & Domestic Animals

CAUTION. Harmful if swallowed, inhaled or absorbed through the skin. Avoid contact with skin, eyes or clothing. Avoid breathing vapor or spray mist. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. Do not allow people or pets on treated surfaces until the spray has dried. Do not touch treated surfaces until the spray has dried.

Environmental Hazards

This pesticide is extremely toxic to aquatic organisms, including fish and invertebrates. To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in clam weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid run off to water bodies or drainage systems. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean water mark. Do not apply when weather conditions favor drift from treated areas. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. ~~Do not contaminate water when disposing of equipment wash waters.~~

Under some conditions, it may also have a potential for transport into surface water in runoff (primarily absorbed to suspended soil particles), for several months or more after application. These include poorly draining or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, and areas overlying extremely shallow groundwater, areas with in-field canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips, and areas over-lying tile drainage systems that drain to surface waters.

This pesticide 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.

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

Physical/Chemical Hazards

Do not use or store near heat or open flame.

EX-101

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STORAGE AND DISPOSAL

This product should be stored at temperatures above 40°F (5°C).

Thoroughly agitate container prior to use if possible. In the event of crystal formation, place pesticide in a room at ambient temperature 70°F (21°C) until crystals dissolve.

Do not use or store near heat or open flame.

Keep this product out of reach of children and animals at all times. Store this product in a cool, dry place in its original container only. Do not expose the product to excessive heat. Open the product container carefully and, after use, replace the container lid by thoroughly tightening the screw cap. Keep product containers tightly closed when not in use. Damaged or leaking containers should be discarded. Do not put concentrated or diluted product into containers that are used for food or drink.

For safety and prevention of unauthorized use, all pesticides should be stored in locked facilities. To prevent accidental misuse, different pesticides should be stored in separate areas with enough distance between the pesticides to provide clear identification.

To Contain a Spill: If the product is a liquid, surround the spill with a barrier and then absorb liquid by covering it with cat litter, sand or a commercial clay. If the product is dry material, cover the spilled product to prevent the material from spreading. If the product container is damaged, place the entire container along with the product in a secure receptacle and clearly label the contents. For any type of product spill, avoid contact with the spilled product and evacuate the area, keeping all unprotected persons and animals at a safe distance.

Pesticide Disposal

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

Container Disposal

Metal and Plastic Containers: Non-refillable containers. Do not reuse or refill these containers. Offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by other approved State and Local procedures. Triple rinse containers (or equivalent) promptly after emptying.

For containers equal to or less than 5 gallons: Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

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forth several times. Turn the container over on its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

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EPA Reg. No. 66330-337
EPA Est. No. 51036-GA-001

Net Contents: ___ gallons
ADxxxxxx

Manufactured For:
ARYSTA LIFESCIENCE NORTH AMERICA, LLC
15401 Weston Parkway, Suite 150
Cary, NC 27513

BASE LABEL FOR BOOKLET

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