

279-3441

06/22/2012

1/24



U S ENVIRONMENTAL PROTECTION AGENCY  
Office of Pesticide Programs  
Registration Division (7505C)  
Ariel Rios Building  
1200 Pennsylvania Ave NW  
Washington D C 20460

EPA Reg Number  
279 3441  
Date of Issuance  
6/22/2012

NOTICE OF PESTICIDE

Registration  
 Reregistration  
(under FIFRA as amended)

Term of Issuance unconditional

Name of Pesticide Product  
F 9318

Name and Address of Registrant (include ZIP Code)  
FMC Corporation  
1735 Market Street  
Philadelphia PA 19103

Note Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce In any correspondence on this product always refer to the above EPA registration number

On the basis of information furnished by the registrant the above named pesticide is hereby registered under the Federal Insecticide Fungicide and Rodenticide Act Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency In order to protect health and the environment the Administrator on his motion may at any time suspend or cancel the registration of a pesticide in accordance with the Act The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others

This product is unconditionally registered in accordance with FIFRA sec 3(c)(5) provided that you

- 1 Submit and/or cite all data required for registration of your product under FIFRA sec 3(c)(5) when the Agency requires all registrants of similar products to submit such data
- 2 Make the following label change before you release the product for shipment
  - a Revise the EPA Registration Number to read EPA Reg No 279 3441
- 3 Per the indicated EPA Guidelines cite or submit the following data within 18 months measured from the effective date of this registration
  - a one year storage stability (830 6317) (measurements at 0 3 6 9 and 12 months)
  - b corrosion characteristics (830 6320) (measurements at 0 3 6 9 and 12 months)
- 4 Submit one copy of the revised final printed label before you release the product for shipment

If these conditions are not complied with the registration will be subject to cancellation in accordance with FIFRA sec 6(e) Your release for shipment of the product constitutes acceptance of these conditions A stamped copy of the label stamped accepted with comments is enclosed for your records

Signature of Approving Official  
  
John D Hebert  
Product Manager 07  
Insecticide Rodenticide Branch  
Registration Division (7505P)

Date  
JUN 22 2012

**RESTRICTED USE PESTICIDE**  
 Toxic 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 certificate

# F9318

## Insecticide/Miticide

<b>GROUP</b>	3	<b>Insecticide</b>
<b>GROUP</b>	6	<b>Insecticide</b>

EPA Reg No 279 GUUR

<b>Active Ingredient</b>	<b>By Wt</b>
Zeta Cypermethrin *	2.01 /
Avermectin B1 **	0.91 /
<b>Other Ingredients</b>	97.08 /
	100.0 /

Cis/Trans isomer ratio Max 75 / (+) cis and Min 25 / (+) trans  
 CAS No 65195 56 4 and No 65195 55 3

This product contains 0.172 pounds active ingredient zeta cypermethrin and 0.078 pounds active ingredient Avermectin B1 per gallon  
 Contains petroleum distillate

**ACCEPTED**  
 EPA Est No With COMMENTS  
 In EPA Letter Dated  
**JUN 22 2012**  
 Under the Federal Insecticide Fungicide  
 and Rodenticide Act As amended for the  
 pesticide Registered under EPA Reg No  
279-3441

**KEEP OUT OF REACH OF CHILDREN**  
**CAUTION**  
 See other panels for additional precautionary information

<b>FIRST AID</b>	
<b>If Swallowed</b>	Call a poison control center or doctor immediately for treatment advice Do not give any liquid to the person Do not induce vomiting unless told to do so by a poison control center or doctor Do not give anything by mouth to an unconscious person
<b>If in Eyes</b>	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
<b>HOTLINE NUMBER</b>	
Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-800-331-3148 for emergency medical treatment information.	
<b>NOTE TO PHYSICIAN</b>	
This product contains a pyrethroid, avermectins, and petroleum distillate. May pose an aspiration pneumonia hazard. Treatment is symptomatic. Have a person sip a glass of water if able to swallow. If toxicity from exposure has progressed to severe vomiting, the extent of resultant fluid and electrolyte imbalance should be gauged. Since avermectins are believed to enhance GABA activity in animals, it is probably wise to avoid drugs that enhance GABA activity (barbiturates, benzodiazepines, and valproic acid).	
<b>For Emergency Assistance Call 1-800-321-1FMC (1362)</b>	

**FMC Corporation**  
**1735 Market Street**  
**Philadelphia PA 19103**

**Net Contents**

279 GUUR 20120621c.pdf  
 1

# Table of Contents

Section Title	Page
FRONT PANEL	X
PRECAUTIONARY STATEMENTS	X
PERSONAL PROTECTIVE EQUIPMENT	X
ENVIRONMENTAL HAZARDS	X
DIRECTIONS FOR USE	X
CHEMIGATION	X
ADJUVANTS	X
RESISTANCE MANAGEMENT	X
ROTATIONAL CROPS	X
BUFFER ZONES	X
SPRAY DRIFT	X
TANK MIXTURES	X
MAX SEASONAL RATE TABLE	X
APPLES	X
CELERIAC	X
CITRUS GROUP	X
COTTON	X
CUCUMBER GROUP	X
FRUITING VEGETABLE GROUP	X
GRAPES	X
LEAFY VEGETABLE GROUP	X
PEARS	X
STONE FRUIT GROUP	X
POTATO TUBER & CORM GROUP	X
TREE NUT GROUP	X
STORAGE AND DISPOSAL STATEMENTS	X
CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY	X

## PRECAUTIONARY STATEMENTS

### Hazards to Humans (and Domestic Animals)

#### Caution

Harmful if swallowed Causes mild eye irritation Wash thoroughly with soap and water after handling and before eating drinking chewing gum or using tobacco Remove and wash contaminated clothing before reuse

### Personal Protective Equipment

Applicators and other handlers must wear

Long sleeved shirt and long pants

Chemical resistant gloves EPA category E (such as barrier laminate nitrile rubber neoprene rubber or Viton)

Shoes plus socks

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

#### User Safety Requirements

Follow manufacturer's instructions for cleaning/maintaining PPE If no such instructions for washables use detergent and hot water Keep and wash PPE separately from other laundry

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

Wash thoroughly with soap and water after handling Wash hands before eating drinking chewing gum using tobacco or using the toilet Remove clothing immediately if pesticide gets inside Then wash thoroughly and put on clean clothing

### Engineering Control Statements

When handlers use closed systems enclosed cabs or aircraft in a manner that meets the requirements listed in the Worker Protection Standard WPS for agricultural pesticides (540CFR 170.240(d)(4-6)) the handler PPE requirements may be reduced or modified as specified in the WPS

### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard 40 CFR part 170 This Standard contains requirements for the protection of agricultural workers on farms forests nurseries and greenhouses and handlers of agricultural pesticides It contains requirements for training decontamination notification and emergency assistance It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted entry interval The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard

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

**Exception for grape girdling cane turning and tying in grapes do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 4 days**

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated such as plants soil or water is Coveralls Chemical resistant gloves such as Barrier Laminate or Viton and shoes plus socks

### Environmental Hazards

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

The use of this product is prohibited in areas where its application may result in exposure to endangered species Prior to use in a particular county contact the local extension service for procedures and precautions to use to protect endangered species

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

The use of this product may pose a risk to threatened and endangered species of fish amphibians crustaceans (including fresh water shrimp and insects) All use of this product in the state of California should comply with the recommendations of the California Endangered Species Project Before using this product in California consult with your agriculture commissioner to determine use limitations that apply in your area

# DIRECTIONS FOR USE

## Restricted Use Pesticide

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

F9318 insecticide/miticide is an emulsifiable in water formulation with two modes of action. F9318 insecticide/miticide will control insect and mite pests on the crops listed within this label when applied according to the Directions of Use unless otherwise directed by registered supplemental labeling. Thorough coverage is essential for good insect and mite control.

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.

Rate of application is variable according to the pest. Use lower rates under light to moderate infestations, higher rates under heavy insect pressure. Arid climates generally require higher rates.

### Chemigation

Do not apply through any type of irrigation system.

### Adjuvants

The use of a spray adjuvant that meets or exceeds CDPA Adjuvant Certification is recommended for optimum performance. Refer to the individual crop recommendation sections of this label for specific adjuvant type and use rates. Do not use binder or sticker type adjuvants.

### Resistance Management

F9318 insecticide/miticide contains Group 3 and Group 6 insecticides. Combining insecticides with different modes of action is a resistance management strategy. Because the development of resistance cannot be predicted, the use of this product should conform to resistance management strategies established for the use area. Consult your local or state agricultural authorities for details.

If resistance to this product develops in your area, this product or other products with similar modes of action, this product may not provide adequate control. If poor performance cannot be attributed to improper application or extreme weather conditions, a resistant strain of insect may be present. If you experience difficulty with control and resistance is a reasonable cause, immediately consult your local company representative or agricultural advisor for the best alternative method of control for your area. More than 2 consecutive applications of F9318 or any products containing avermectin or a pyrethroid is not recommended.

### Rotational Crops

For crops that have zeta cypermethrin and avermectin tolerances, the plant back is immediate. All other crops may be rotated 30 days following the final application.

### Buffer Zones

Do not apply with ground application equipment within 25 ft. of or with aircraft within 150 ft. of lakes, reservoirs, rivers, permanent streams, marshes, pot holes, natural ponds, estuaries, or commercial fish farm ponds.

In New York State, this product cannot be applied within 100 feet (using ground equipment) to 300 feet (using aerial equipment) of coastal marshes or streams that drain into coastal marshes.

### Vegetative Buffer Zones

Construct and maintain a minimum 25 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 zeta cypermethrin into fields where a maintained vegetative buffer strip of at least 25 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 Service, USDA NRCS, 2000, Fort Worth, Texas, 21 pp. <http://www.in.nrcs.usda.gov/technical/agronomy/newconbuf.pdf>

**Buffer Zone for Ground Application (groundboom or airblast)**

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

**Buffer Zone for non ULV (ultra low volume) aerial application**

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

**Buffer Zone for ULV (ultra low volume) aerial application**

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

**Spray Drift Requirements****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 or is below 2 mph 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 must be avoided below 2 mph due to variable wind direction and high inversion potential

**Temperature Inversion**

F 9318 application must not be made during a temperature inversion because the potential for drift is high 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 Temperature inversions are calm on calm nights The applicator may detect the presence of an inversion by producing smoke and observing a smoke layer near the ground surface Smoke that layers and moves laterally indicates an inversion

**Droplet Size**

Use only Medium or coarse 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

**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 Does 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

Observe the following precautions when using ground application to spray tree crops or hops in the vicinity of aquatic areas such as lakes reservoirs permanent streams marshes potholes natural ponds estuaries or commercial fish ponds

Do not apply within 110 ft upwind of aquatic areas or when wind speed is above 8 mph

Spray last 3 rows windward of aquatic areas using nozzles on one side only with spray directed away from the aquatic areas

Avoid spray going over tops of trees by adjusting or turning off top nozzles. Shut off nozzles on the side away from the grove/orchard when spraying the outside row. Shut off nozzles when turning at ends of row and passing tree gaps in row.  
**Do not apply using aerial application in New York State**

**Tank Mixture**

F9318 Insecticide/Miticicide may be applied in tank mixtures with other products approved for use on registered crops. Observe all restrictions and precautions which appear on the labels of these products. Test for compatibility of products before mixing.

**Maximum Usage When Applying Both Zeta-Cypermethrin and Cypermethrin Products to the Same Crop Within the Same Season**

Do not apply more than the maximum seasonal total for either product when used alone and do not apply more than the combined maximum seasonal total for both products as outlined in the table below

<b>Crop</b>	<b>Zeta Cypermethrin Max Seasonal Total (lbs ai/acre)</b>	<b>Abamectin MAX Seasonal Total (lbs ai/acre)</b>	<b>Cypermethrin Max Seasonal Total (lbs ai/acre)</b>	<b>Maximum Seasonal Total (lbs ai/acre) When Applying Cypermethrin and Zeta Cypermethrin Products to the Same Crop</b>
Apples	0.052	0.024	NA	NA
Celeriac	0.078	0.036	NA	NA
Citrus group	0.052	0.024	NA	NA
Cotton	0.052	0.024	0.6	0.6
Cucumber Group	0.078	0.036	NA	NA
Fruiting Vegetable Group	0.078	0.036	NA	NA
Grapes	0.052	0.024	NA	NA
Leafy Vegetable Group	0.078	0.036	0.6	0.6
Pears	0.052	0.024	NA	NA
Stone Fruit Group	0.078	0.036	NA	NA
Potato Tuber and Corm Group	0.078	0.036	NA	NA
Tree Nut Group	0.078	0.036	0.6	0.6



### Use Rates

Crop	PHI	Target Pests	Rate	Special Directions
<p><b>Apples</b> (azarole crabapple loquat mayhaw medlar)</p>	<p>28 days</p>	<p>Apple Maggot Codling Moth European Apple Sawfly Green Fruitworm Japanese Beetle Lesser Appleworm Oblique Banded Leafroller Oriental Fruit Moth Pandemis Leafroller Pear Psylla Plum Curculio Potato Leafroller Redbanded Leafroller Rosy Apple Aphid Spirea Aphid Stink Bugs Tarnished Plant Bug Tufted Apple Bud Moth Variegated Leafroller White Apple Leafroller</p>	<p>Dilute Sprays  3.5 to 4.75 fl ounces per 100 gallons</p>	<p><b>Method of Application</b> Broadcast ground only (minimum 40 GPA) <b>Timing</b> Begin applications at delayed dormant through first cover as common to the production area and the target pest species. Apply in a full season spray program</p> <p>Apply as required by scouting Timing and frequency of applications should be based upon insect populations reaching locally determined economic threshold levels</p> <p>Avoid applications when honey bees are actively foraging by applying during the early morning or evening hours</p> <p><b>Application Interval</b> Do not make applications less than 21 days apart <b>Adjuvants</b> Surfactants can improve pest control. A nonionic surfactant is recommended. Do not use binder or sticker type surfactants. Vegetable oil can be used as a spray additive (1 qt/A)</p> <p>Spider Mites. Apply before mites reach a threshold of 5 per leaf. Applications for spider mite control should be limited to a period from petal fall through 6 weeks following petal fall. Heavy mite pressure may need additional miticide for effective control</p> <p>Tentiform Leafminer. Apply targeting egg and early sap feeder stages of first and second generation tentiform leafminers when local thresholds are reached. Do not apply during bloom</p> <p>White Apple Leafhopper (not for use west of Rocky Mountains) Application limited to first generation white apple leafhopper. Apply soon after petal fall</p>
		<p>Concentrate Sprays<sup>b</sup>  14 to 19 fl ounces per acre</p>		
		<p>European Red Mite McDaniel Spider Mite Tentiform Leafminer Twospotted Spider Mite White Apple Leafhopper</p>	<p>Dilute Sprays  1.9 fl ounces per 100 gallons</p>	
		<p>Concentrate Sprays<sup>b</sup>  19 fl ounces per acre</p>		

	<p>a The rate of F9318 per 100 gal is based on a volume of 400 gal /A dilute spray</p> <p>b To determine the amount of product per acre for concentrate sprays first determine the amount that would be required in a full cover dilute spray Use the same amount of product/A in concentrate sprays as would be required for the dilute sprays to the same orchard/grove This may result in use of less than intended use rate (oz /A) on small trees</p> <p><b>Restrictions</b></p> <ol style="list-style-type: none"><li>1 Do not apply within 28 days of harvest</li><li>2 Do not apply more than 19 fl oz of F9318 per acre per application (or 0.012 lb ai/A/application of any product containing avermectin or 0.026 lb ai/A/application of any product containing zeta cypermethrin)</li><li>3 Do not apply more than 38 fl oz of F9318 per acre per 12 month cropping year (or 0.024 lb ai/A/year of any product containing avermectin or 0.052 lb ai/A/year of any product containing zeta cypermethrin)</li><li>4 Do not make more than 2 consecutive applications of F9318 or any other product containing avermectin or a pyrethroid</li></ol> <p><b>Grazing Restrictions</b> Do not allow livestock to graze or feed treated foliage to livestock</p>
--	--

Crop	PHI	Target Pests	Rate	Special Directions
Celeriac	7 days	Aphid spp Armyworm spp Celery Leaf Tier Corn Earworm Cabbageworm Cutworm spp Diamondback Moth European Corn Borer Flea Beetle spp Green Cloverworm Hornworm spp Imported Cabbageworm Looper spp Tobacco Budworm Velvetbean Caterpillar	14 to 19 fl ounces per acre	<p><b>Method of Application</b> Broadcast ground only (minimum 20 GPA)</p> <p><b>Timing</b> Apply as required by scouting Timing and frequency of applications should be based upon insect populations reaching locally determined economic threshold levels</p> <p><b>Application Interval</b> Do not make applications less than 7 days apart</p> <p><b>Adjuvants</b> Surfactants can improve pest control. A nonionic surfactant is recommended. Do not use binder or sticker type surfactants. Vegetable oil can be used as a spray additive (1 qt/A)</p> <p>Includes all armyworm species except beet armyworm</p> <p>Pyrethroid resistance is common for this pest. Please consult your local or state agricultural authority to determine if resistant pest populations are in your area. If so refer to the resistance management statement in the DIRECTION FOR USE section of this label. Heavy mite pressure may need additional miticide for effective control</p>
		Twospotted Spider Mite Fire Ant spp Whitefly (adult)	19 fl ounces per acre	
		<p><b>Restrictions</b></p> <ol style="list-style-type: none"> <li>1 Do not apply within 7 days of harvest</li> <li>2 Do not apply more than 19 fl oz of F9318 per acre per application (or 0.012 lb ai/A/application of any product containing avermectin or 0.026 lb ai/A/application of any product containing zeta cypermethrin)</li> <li>3 Do not apply more than 57 fl oz per acre of F9318 per 12 month cropping year (or 0.036 lb ai/A/year of any product containing avermectin or 0.078 lb ai/A/year of any product containing zeta cypermethrin)</li> <li>4 Do not make more than 2 consecutive applications of F9318 or any other product containing avermectin or a pyrethroid</li> </ol>		

<p><b>Citrus Group</b>  <b>Crop Group</b>  <b>10</b>          Including          Calamondin          Citrus citron          Citrus hybrids          (includes          chironja tangelo          tangor)          Grapefruit          Kumquat          Lemon Lime          Mandarin          (tangerine) Sour          orange Sweet          orange          Pummelo and          Satsuma          mandarin          Uniq Fruit</p>	<p>7 days</p>	<p>Asian Citrus Psyllid          Asian Cockroach          Armyworm Beet          Blue Green Citrus Root          Weevils          Broad Mite          Citrus Bud Mite          Citrus Leafminer          Citrus Rust Mite          Citrus Thrips          Cutworms          Diaprepes Root Weevil          Fire Ants          Fuller Rose Beetle          Glassy Winged Sharpshooter          Grasshopper          Katydid          Leafhoppers          Leafrollers          Little Leaf Notcher          Loopers          Orange Tortrix          Orangedog Caterpillars          Plantbugs</p>	<p>Dilute Sprays</p> <p>1 9 fl ounces per          100 gallons</p>	<p><b>Method of Application</b>          Ground application is allowed for all          pests Aerial application is          permitted only for citrus leafminer          and Asian citrus psyllid control          Aerial application may result in          reduced level and duration of          control compared with ground          application Aerial application is not          allowed in California For aerial          application use a minimum of 10          gallons of finished spray per acre</p>
			<p>Concentrate          Sprays<sup>b</sup></p> <p>19 fl ounces          per acre</p>	<p><b>Timing</b>          Apply as required by scouting          Timing and frequency of          applications should be based upon          insect populations reaching locally          determined economic threshold          levels</p> <p><b>Application Interval</b>          Do not make applications less than          30 days apart</p> <p><b>Adjuvants</b>          Surfactants can improve pest          control A nonionic surfactant is          recommended Do not use binder or          sticker type surfactants          Vegetable/horticultural oil can be          used as a spray additive</p> <p><b>Asian Citrus Psyllid</b> Apply F9318          to protect newly expanded          expanding foliage flush during          spring summer or fall F9318 will          only control adults and nymphs at          the time of application Use a          minimum of 2 GPA in a low volume          concentrate spray for ground          application</p> <p><b>Mites</b> Apply F9318 during spring          summer and/or fall when mites first          appear</p> <p><b>Citrus Bud Mite</b> For best results          apply F9318 at bud swell</p> <p><b>Citrus Leafminer</b> Apply F9318          during spring summer or fall to          protect new growth Use a          minimum of 2 GPA in a low volume          concentrate spray for ground          application</p> <p><b>Citrus Thrips</b> Apply as required          by scouting Timing and frequency          of applications should be based          upon insect populations reaching          locally determined economic          threshold levels</p>
		<p><b>a</b> The rate of F9318 per 100 gal is based on a volume of 1000 gal /A dilute spray  <b>b</b> To determine the amount of product per acre for concentrate sprays first determine          the amount that would be required in a full cover dilute spray Use the same amount</p>		

		<p>of product/A in concentrate sprays as would be required for the dilute sprays to the same orchard/grove This may result in use of less than 19 fl oz /A on small trees</p> <p><b>Restrictions</b></p> <ol style="list-style-type: none"> <li>1 Do not apply within 7 days of harvest</li> <li>2 Do not apply more than 19 fl oz of F9318 per acre per application (or 0.012 lb ai/A/application of any product containing avermectin or 0.026 lb ai/A/application of any product containing zeta cypermethrin)</li> <li>3 Do not apply more than 38 fl oz of F9318 per acre per 12 month cropping year (or 0.024 lb ai/A/year of any product containing avermectin or 0.052 lb ai/A/year of any product containing zeta cypermethrin)</li> <li>4 For resistance management do not use F9318 in citrus nurseries</li> </ol> <p><b>Grazing Restrictions</b> Do not allow livestock to graze or feed treated foliage to livestock</p>
--	--	---

Crop	PHI	Target Pests	Rate	Special Directions
Cotton	20 days	Cutworms Soybean (banded) Thrips Tobacco Thrips	6 to 9 fl ounces per acre	<p><b>Method of Application</b> Broadcast ground (minimum 5 GPA) or air (minimum 5 GPA)</p> <p><b>Timing</b> Apply as required by scouting Timing and frequency of applications should be based upon insect populations reaching locally determined economic threshold levels</p> <p><b>Application Interval</b> Wait at least 21 days between applications</p> <p><b>Adjuvants</b> Surfactants can improve pest control. A nonionic surfactant is recommended. Do not use binder or sticker type surfactants. Vegetable oil can be used as a spray additive (1 qt/A)</p> <p><b>Notes</b> For control of mites apply F9318</p>
		Carmine Spider Mite Pacific Spider Mite Twospotted Spider Mite	7.5 to 13 fl ounces per acre  16 to 19 fl ounces per acre	
		Armyworm Fall Armyworm Yellowstriped Bollworm Cabbage Looper Cotton Fleahopper Cotton Leafperforator European Corn Borer Pink Bollworm Saltmarsh Caterpillar Stink Bug spp Tobacco Budworm Armyworm Beet	13 to 19 fl ounces per acre	

		<p>Cotton Aphid Lygus Bugs Whitefly (adults)</p>	<p>when mites first appear The use rate will depend on plant size and foliage density Repeat applications on 21 day interval if needed to maintain mite control The lower use rate of 7.5 to 13 ounces are only recommended if cotton is early season and under 10 inches in height Do not use less than 7.5 ounces <b>West of the Rocky Mountains</b> The lower use rates may only be used on cotton less than 10 inches in height and applied with ground equipment</p> <p>Pyrethroid resistance is common for this pest Please consult your local or state agricultural authority to determine if resistant pest populations are in your area If so refer to the resistance management statement in the DIRECTION FOR USE section of this label Heavy mite pressure may need additional miticide for effective control</p>
		<p><b>Restrictions</b></p> <ol style="list-style-type: none"> <li>Do not apply within 20 days of harvest</li> <li>Do not apply more than 19 fl oz of F9318 per acre per application (or 0.012 lb ai/A/application of any product containing avermectin or 0.026 lb ai/A/application of any product containing zeta cypermethrin)</li> <li>Do not apply more than 38 fl oz per acre of F9318 per 12 month cropping year (or 0.024 lb ai/A/year of any product containing avermectin or 0.052 lb ai/A/year of any product containing zeta cypermethrin)</li> <li>Do not make more than 2 consecutive applications of F9318 or any other product containing avermectin or a pyrethroid</li> </ol> <p><b>Grazing Restrictions</b> Do not allow livestock to graze or feed treated foliage to livestock</p>	

Crop	PHI	Target Pests	Rate	Special Directions
<p><b>Cucurbit group</b> Crop Group 9 Including Chayote (fruit) (Sechium edule) Chinese waxgourd (Chinese preserving melon) (Benincasa hispida) Citron melon (Citrullus lanatus var citroides) Cucumber (Cucumis sativus) Gherkin (Cucumis anguria) Gourd edible (Lagenaria spp.) (includes hyotan cucuzza) (Luffa acutangula L.</p>	<p>7 days</p>	<p>Cutworm spp</p> <hr/> <p>Cabbage Looper Cucumber Beetle spp (adult) Leafhopper spp Melonworm Pickleworm Rindworm Squash Bug Squash Vine Borer</p>	<p>6 to 19 fl ounces per acre</p> <hr/> <p>14 to 19 fl ounces per acre</p>	<p><b>Method of Application</b> For cutworms apply as a broadcast application in a minimum of 10 gallons per acre</p> <p>For foliar applications apply broadcast ground (minimum 20 GPA) or air (minimum 5 GPA) Do not apply by air in New York</p> <p><b>Timing</b> Apply as required by scouting Timing and frequency of applications should be based upon insect populations reaching locally determined economic threshold levels</p>

<p>cylindrica) (includes hechima Chinese okra) Momordica spp (includes balsam apple balsam pear bitter melon Chinese cucumber) Muskmelon (hybrids and/or cultivars of Cucumis melo) (includes 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 (Cucurbita spp ) Squash summer (Cucurbita pepo var melopepo) (includes crookneck squash scallop squash straightneck squash vegetable marrow zucchini) Squash winter (Cucurbita maxima C moschata) (includes butternut squash calabaza hubbard squash) (C mixta C pepo) (includes acorn squash spaghetti squash) Watermelon (includes hybrids and/or varieties of Citrullus lanatus)</p>		<p>Aphid spp Armyworm Beet Corn Earworm Leafminer Plant Bug spp Spider Mites Stinkbug spp</p>	<p>19 fl ounces per acre</p>	<p><b>Application Interval</b> Do not make applications less than 7 days apart</p> <p><b>Adjuvants</b> Surfactants can improve pest control A nonionic surfactant is recommended Do not use binder or sticker type surfactants Vegetable oil can be used as a spray additive (1 qt/A)</p> <p>Pyrethroid resistance is common for this pest Please consult your local or state agricultural authority to determine if resistant pest populations are in your area If so refer to the resistance management statement in the DIRECTION FOR USE section of this label Heavy mite pressure may need additional miticide for effective control</p>
<p><b>Restrictions</b></p> <ol style="list-style-type: none"> <li>1 Do not apply within 7 days of harvest</li> <li>2 Do not apply more than 19 fl oz of F9318 per acre per application application (or 0 012 lb ai/A/application of any product containing avermectin or 0 026 lb ai/A/application of any product containing zeta cypermethrin)</li> <li>3 Do not apply more than 57 fl oz per acre of F9318 per 12 month cropping year (or 0 036 lb ai/A/year of any product containing avermectin or 0 078 lb ai/A/year of any product containing zeta cypermethrin)</li> <li>4 Do not make more than 2 consecutive applications of F9318 or any other product containing avermectin or a pyrethroid</li> </ol>				

Crop	PHI	Target Pests	Rate	Special Directions
<p><b>Fruiting Vegetable group</b> Crop Group 8 Including Eggplant (Solanum melongena) Groundcherry (Physalis spp ) Pepino (Solanum muricatum) Pepper (Capsicum spp ) (includes bell pepper chili</p>	<p>7 days</p>	<p>Armyworm Southern Armyworm True Armyworm Yellowstriped Celery Leaf Tier European Corn Borer Southwestern Corn Borer Corn Earworm Cucumber Beetle Cutworm spp Flea Beetle Garden Webworm Green Stinkbug Hornworms Leafhopper spp Meadow Spittlebug Pepper Maggot (adults)</p>	<p>10 to 19 fl ounces per acre</p>	<p><b>Method of Application</b> Broadcast ground (minimum 20 GPA) or air (minimum 5 GPA) Do not apply by air in New York</p> <p><b>Timing</b> Apply as required by scouting Timing and frequency of applications should be based upon insect populations reaching locally determined economic threshold levels</p> <p><b>Application Interval</b></p>

pepper cooking pepper pimento sweet pepper) Tomatillo (Physalis ixocarpa) Tomato (Lycopersicon esculentum)	Pepper Weevil Tobacco Budworm Tomato Fruitworm		Do not make applications less than 7 days apart
	Aphid spp Armyworm Beet Armyworm Fall Cabbage Looper Grasshoppers Lygus Bugs Brown Stink Bug Whitefly spp	14 to 19 fl ounces per acre	<b>Adjuvants</b> Surfactants can improve pest control. A nonionic surfactant is recommended. Do not use binder or sticker type surfactants. Vegetable oil can be used as a spray additive (1 qt/A).  <b>Mites</b> For optimum control apply F9318 when mites first appear. Heavy mite pressure may need additional miticide for effective control.  <b>Thrips palmi</b> For thrips control apply F9318 when first observed.
	Broad Mite Colorado Potato Beetle <i>Liriomyza</i> Leafminers Spider Mites <i>Thrips palmi</i> Tomato Psyllid Tomato Russet Mite Tomato Pinworm	19 fl ounces per acre	Pyrethroid resistance is common for this pest. Please consult your local or state agricultural authority to determine if resistant pest populations are in your area. If so refer to the resistance management statement in the DIRECTION FOR USE section of this label.
<b>Restrictions</b> <ol style="list-style-type: none"> <li>Do not apply within 7 days of harvest</li> <li>Do not apply more than 19 fl oz of F9318 per acre per application (or 0.012 lb ai/A/application of any product containing avermectin or 0.026 lb ai/A/application of any product containing zeta cypermethrin)</li> <li>Do not apply more than 57 fl oz per acre of F9318 per 12 month cropping year (or 0.036 lb ai/A/year of any product containing avermectin or 0.078 lb ai/A/year of any product containing zeta cypermethrin)</li> <li>Do not make more than 2 consecutive applications of F9318 or any other product containing avermectin or a pyrethroid</li> <li>For resistance management do not apply to plants being grown for transplants</li> </ol>			

Grop	PHI	Target Pests	Rate	Special Directions
Grapes	28 days	Asian Lady Bird Beetle Lady Bird Beetle Cutworm spp Eastern grape leafhopper Variegated Leafhopper Western Grape Leafhopper	9 to 19 fl ounces per acre	<b>Method of Application</b> Broadcast ground only (minimum 50 GPA)  <b>Timing</b> Apply as required by scouting



		<p>Grape Berry Moth  Japanese Beetle (adult)  Pacific Spider mite  Twospotted Spider Mite  Western Grapeleaf Skeletonizer  Willamette Spider Mite</p>	<p>19 fl ounces per acre</p>	<p>Timing and frequency of applications should be based upon insect populations reaching locally determined economic threshold levels</p> <p><b>Application Interval</b>  Do not make applications less than 21 days apart</p> <p><b>Adjuvants</b>  Surfactants can improve pest control. A nonionic surfactant is recommended. Do not use binder or sticker type surfactants. Vegetable oil can be used as a spray additive (1 qt/A)</p> <p><b>Spider Mites</b> Apply when mites first appear and before motiles exceed 5 per leaf. Heavy mite pressure may need additional miticide for effective control.</p> <p><b>Western grapeleaf skeletonizer</b>  Apply when larvae are first observed. Apply immediately after egg hatch for optimum control.</p>
		<p><b>Restrictions</b></p> <ol style="list-style-type: none"> <li>1 Do not apply within 7 days of harvest</li> <li>2 Do not apply more than 19 fl oz of F9318 per acre per application (or 0.012 lb ai/A/application of any product containing avermectin or 0.026 lb ai/A/application of any product containing zeta cypermethrin)</li> <li>3 Do not apply more than 38 fl oz of F9318 per acre per 12 month cropping year (or 0.024 lb ai/A/year of any product containing avermectin or 0.052 lb ai/A/year of any product containing zeta cypermethrin)</li> <li>4 Do not make more than 2 consecutive applications of F9318 or any other product containing avermectin or a pyrethroid</li> </ol>		

Crop	PHI	Target Pests	Rate	Special Directions
<b>Leafy Vegetable group (except Brassica)</b> Crop Group 4 Including Amaranth (leafy amaranth Chinese spinach tampala) Arugula (Roquette) Cardoon Celery Celery Chinese Celtuce Chervil Chrysanthemum edible leaved and garland Cilantro (not for use on cilantro grown for seed or coriander) Corn salad Cress garden Cress upland (yellow rocket winter cress) Dandelion Dock (sorrel) Endive (escarole) Fennel Florence (finochio) Lettuce head and leaf Orach Parsley Purslane garden Purslane winter Radicchio (red chicory) Rhubarb Spinach (including New Zealand and vine Malabar spinach Indian spinach) and Swiss chard	7 days	Corn Earworm Cucumber Beetles Cutworms Diamondback Moth Flea Beetles Imported Cabbageworm Leafhoppers Saltmarsh Caterpillar	10 to 19 fl ounces per acre	<b>Method of Application</b> Broadcast ground (minimum 20 GPA) or air (minimum 5 GPA) Do not apply by air in New York  <b>Timing</b> Apply as required by scouting Timing and frequency of applications should be based upon insect populations reaching locally determined economic threshold levels  <b>Application Interval</b> Do not make applications less than 7 days apart  <b>Adjuvants</b> Surfactants can improve pest control A nonionic surfactant is recommended Do not use binder or sticker type surfactants Vegetable oil can be used as a spray additive (1 qt/A)  <b>Spider Mites</b> Apply when mites first appear and repeat as needed to maintain control (See <b>Restrictions</b> below) Heavy mite pressure may need additional miticide for effective control  <b>Leafminers</b> Apply when adult flies are first observed and repeat as needed to maintain control (See <b>Restrictions</b> below)  Pyrethroid resistance is common for this pest Please consult your local or state agricultural authority to determine if resistant pest populations are in your area If so refer to the resistance management statement in the <b>DIRECTION FOR USE</b> section of this label
		Armyworms Ground Beetles Crickets Loopers Lygus Bugs Onion Thrips Stink Bugs Wireworm (adults) Tobacco Budworm	14 to 19 fl ounces per acre	
		Broad Mite Colorado Potato Beetle <i>Liriomyza</i> Leafminers Spider Mites <i>Thrips palmi</i> Tomato Psyllid Tomato Russet Mite Tomato Pinworm Aphid spp Whitefly spp	19 fl ounces per acre	
<b>Restrictions</b> 1 Do not apply within 7 days of harvest 2 Do not apply more than 19 fl oz of F9318 per acre per application (or 0.012 lb ai/A/application of any product containing avermectin or 0.026 lb ai/A/application of any product containing zeta cypermethrin) 3 Do not apply more than 57 fl oz of F9318 per acre per 12 month cropping year (or 0.036 lb ai/A/year of any product containing avermectin or 0.078 lb ai/A/year of any product containing zeta cypermethrin) 4 Do not make more than 2 consecutive applications of F9318 or any other product containing avermectin or a pyrethroid 5 For resistance management do not apply to plants being grown for transplants				

Crop	PHI	Target Pests	Rate	Special Directions	
<b>Pears</b> including Oriental pears	28 days	Apple Maggot Codling Moth European Apple Sawfly Green Fruitworm Japanese Beetle Lesser Appleworm Oblique Banded Leafroller Oriental Fruit Moth Pandemis Leafroller Pear Psylla Plum Curculio Potato Leafroller Redbanded Leafroller Rosy Apple Aphid Spirea Aphid Stink Bugs Tarnished Plant Bug Tufted Apple Bud Moth Variegated Leafroller	Dilute Sprays  3.5 – 4.75 fl ounces per 100 gallons	<p><b>Method of Application</b> Broadcast ground only (minimum 40 GPA)</p> <p><b>Timing</b> Apply as required by scouting Timing and frequency of applications should be based upon insect populations reaching locally determined economic threshold levels</p> <p><b>Application Interval</b> Do not make applications less than 21 days apart</p> <p><b>Adjuvants</b> Surfactants can improve pest control. A nonionic surfactant is recommended. Do not use binder or sticker type surfactants. Vegetable oil can be used as a spray additive (1 qt/A)</p> <p><b>Mites</b> Apply when mites first appear and repeat as needed to maintain control (See <b>Restrictions</b> below). Heavy mite pressure may need additional miticide for effective control.</p>	
		European Red Mite McDaniel Spider Mite Tentiform Leafminer Twospotted Spider Mite White Apple Leafhopper	Concentrate Sprays <sup>b</sup>  14 to 19 fl ounces per acre		Dilute Sprays  4.75 fl ounces per 100 gallons
			Concentrate Sprays <sup>b</sup>  19 fl ounces per acre		
		<p><b>a</b> The rate of F9318 per 100 gal is based on a volume of 400 gal /A dilute spray</p> <p><b>b</b> To determine the amount of product per acre for concentrate sprays first determine the amount that would be required in a full cover dilute spray. Use the same amount of product/A in concentrate sprays as would be required for</p>			

		<p>the dilute sprays to the same orchard/grove. This may result in use of less than intended use rate (oz /A) on small trees</p> <p><b>Restrictions</b></p> <ol style="list-style-type: none"> <li>1 Do not apply within 28 days of harvest</li> <li>2 Do not apply more than 19 fl oz of F9318 per acre per application (or 0.012 lb ai/A/application of any product containing avermectin or 0.026 lb ai/A/application of any product containing zeta cypermethrin)</li> <li>3 Do not apply more than 38 fl oz of F9318 per acre per 12 month cropping year (or 0.024 lb ai/A/year of any product containing avermectin or 0.052 lb ai/A/year of any product containing zeta cypermethrin)</li> <li>4 Do not make more than 2 consecutive applications of F9318 or any other product containing avermectin or a pyrethroid</li> </ol> <p><b>Grazing Restrictions</b> Do not allow livestock to graze or feed treated foliage to livestock</p>
--	--	---

Crop	PHI	Target Pests	Rate	Special Directions
<b>Stone Fruit Group</b> <b>Crop Group 12</b> including Apricot Cherry (Sweet and Tart) Nectarine Peach Plum (including Chickasaw Plum Damson Plum and Japanese Plum) Plumcot and Prune (fresh)	21 days	American Plum Borer Green Fruitworm Leafrollers Leafhoppers Lesser Peachtree Borer Peachtree Borer Plum Curculio Oriental Fruit Moth Rose Chafer Stink Bugs Tarnished Plant Bug	Dilute Sprays  1.5 – 4.75 fl ounces per 100 gallons	<p><b>Method of Application</b> Broadcast ground only (minimum 40 GPA)</p> <p><b>Timing</b> Apply as required by scouting. Timing and frequency of applications should be based upon insect populations reaching locally determined economic threshold levels.</p> <p><b>Application Interval</b> Do not make applications less than 21 days apart</p> <p><b>Adjuvants</b> Surfactants can improve pest control. A nonionic surfactant is recommended. Do not use binder or sticker type surfactants. Vegetable oil can be used as a spray additive (1 qt/A).</p> <p><b>Mites</b> Apply when mites first appear and repeat as needed to maintain control (See <b>Restrictions</b> below). Heavy mite pressure may need additional miticide for effective control.</p>
			Concentrate Sprays <sup>b</sup>  6 to 19 fl ounces per acre	
		European Red Mite Pacific Spider Mite Twospotted Spider Mite	Dilute Sprays  4.75 fl ounces per 100 gallons	

			<p>Concentrate Sprays<sup>b</sup></p> <p>19 fl ounces per acre</p>	
		<p><b>a</b> The rate of F9318 per 100 gal is based on a volume of 400 gal /A dilute spray</p> <p><b>b</b> To determine the amount of product per acre for concentrate sprays first determine the amount that would be required in a full cover dilute spray Use the same amount of product/A in concentrate sprays as would be required for the dilute sprays to the same orchard/grove This may result in use of less than intended use rate (oz /A) on small trees</p> <p><b>Restrictions</b></p> <ol style="list-style-type: none"> <li>1 Do not apply within 21 days of harvest</li> <li>2 Do not apply more than 19 fl oz of F9318 per acre per application (or 0 012 lb ai/A/application of any product containing avermectin or 0 026 lb ai/A/application of any product containing zeta cypermethrin)</li> <li>3 Do not apply more than 57 fl oz of F9318 per acre per 12 month cropping year (or 0 036 lb ai/A/application of any product containing avermectin or 0 078 lb ai/A/application of any product containing zeta cypermethrin)</li> <li>4 Do not make more than 2 consecutive applications of F9318 or any other product containing avermectin or a pyrethroid</li> </ol> <p><b>Grazing Restrictions</b> Do not allow livestock to graze or feed treated foliage to livestock</p>		

Crop	PHI	Target Pests	Rate	Special Directions
<p><b>Potato/Tuberous &amp; Corm Group</b>  <b>Root and Tuber vegetables</b>            Crop Group 1            Arracach arrowroot            artichoke Chinese artichoke            Jerusalem canna            edible cassava bitter and sweet            chayote (root) chufa            dasheen (taro)</p>	14 days	Cutworm sp Cabbage Looper Cucumber Beetle (adult) European Corn Borer Flea Beetle spp Leafhopper spp Southern Corn Rootworm (adult) Vegetable Weevil Whitefringed Beetle (adult)	8 to 19 fl ounces per acre	<p><b>Method of Application</b>            Broadcast ground (minimum 20 GPA) or air (minimum 5 GPA) Do not apply by air in New York state</p> <p><b>Timing</b>            Apply as required by scouting            Timing and frequency of applications should be based upon insect populations reaching locally determined economic threshold levels</p> <p><b>Application Interval</b></p>

<p>ginger leren potato sweet potato tanier turmeric yam bean yam true</p>		<p>Aphid spp Armyworm Beet Armyworm Yellowstriped Cabbage Maggot Grasshopper spp Imported Cabbageworm Potato Leafhopper Tarnished Plant Bug Colorado Potato Beetle <i>Liriomyza</i> Leafminers Potato Psyllid Spider Mites</p>	<p>19 fl ounces per acre</p>	<p>Do not make applications less than 7 days apart</p> <p><b>Adjuvants</b> Surfactants can improve pest control. A nonionic surfactant is recommended. Do not use binder or sticker type surfactants. Vegetable oil can be used as a spray additive (1 qt/A)</p> <p><b>Notes</b> <b>Leafminers spp</b> Begin F9318 applications when adult flies are first observed. Repeat applications as needed to maintain control. (See <b>Restrictions</b> below) Combining F9318 with a sticker or binder type product may reduce leafminer control.</p> <p><b>Spider mites</b> Repeat F9318 applications as needed to maintain control. (See <b>Restrictions</b> below) Aerial application may not provide adequate spray coverage which could result in poor mite control. Combinations with products containing sticker or binder type adjuvants may reduce mite control. Heavy mite pressure may need additional miticide for effective control.</p> <p>Pyrethroid resistance is common for this pest. Please consult your local or state agricultural authority to determine if resistant pest populations are in your area. If so refer to the resistance management statement in the <b>DIRECTION FOR USE</b> section of this label.</p>
<p><b>Restrictions</b></p> <ol style="list-style-type: none"> <li>1 Do not apply within 7 days of harvest</li> <li>2 Do not apply more than 19 fl oz of F9318 per acre per application (or 0.012 lb ai/A/application of any product containing avermectin or 0.026 lb ai/A/application of any product containing zeta cypermethrin)</li> <li>3 Do not apply more than 57 fl oz per acre of F9318 per 12 month cropping year (or 0.036 lb ai/A/application of any product containing avermectin or 0.078 lb ai/A/application of any product containing zeta cypermethrin)</li> <li>4 Do not make more than 2 consecutive applications of F9318 or any other product containing avermectin or a pyrethroid</li> </ol> <p><b>Grazing Restrictions</b> Do not allow livestock to graze or feed treated foliage to livestock</p>				

Crop	PHI	Target Pests	Rate	Special Directions
<p><b>Tree Nut Group</b> Crop Group 14</p> <p>Including Almond Beech nut Brazil nut Butternut Cashew Chestnut Chinquapin Filbert (hazelnut) Hickory nut Macadamia nut Pecan Pistachios and Walnut (black and English)</p>	<p>21 days</p>	<p>Aphid spp Codling Moth Filbertworm Hickory Shuckworm Leaffooted Bug Leafroller spp <i>Lygus</i> spp Navel Orangeworm Peach Twig Borer Pecan Leaf Casebearer Pecan Nut Casebearer Pecan Phylloxera Redhumped Caterpillar Stink Bug spp Walnut Aphid Walnut Husk Fly</p>	<p>Dilute Sprays</p> <p>3.5 – 4.75 fl ounces per 100 gallons</p>	<p><b>Method of Application</b> Broadcast ground only (minimum 40 GPA)</p> <p><b>Timing</b> Apply as required by scouting Timing and frequency of applications should be based upon insect populations reaching locally determined economic threshold levels</p> <p><b>Application Interval</b> Do not make applications less than 21 days apart</p> <p><b>Adjuvants</b> Surfactants can improve pest control. A nonionic surfactant is recommended. Do not use binder or sticker type surfactants. Vegetable oil can be used as a spray additive (1 qt/A)</p> <p><b>Spider Mites</b> Apply when mites first appear and repeat as needed to maintain control (See <b>Restrictions</b> below). Under heavy mite pressure may need additional miticide for effective control.</p>
		<p>European Red Mite Pacific Spider Mite Strawberry Spider Mite Twospotted Spider Mite</p>	<p>Concentrate Sprays<sup>b</sup></p> <p>14 to 19 fl ounces per acre</p> <hr/> <p>Dilute Sprays</p> <p>4.75 fl ounces per 100 gallons</p> <hr/> <p>Concentrate Sprays<sup>b</sup></p> <p>19 fl ounces per acre</p>	
<p><b>a</b> The rate of F9318 per 100 gal is based on a volume of 400 gal /A dilute spray</p> <p><b>b</b> To determine the amount of product per acre for concentrate sprays first determine the amount that would be required in a full cover dilute spray. Use the same amount of product/A in concentrate sprays as would be required for the dilute sprays to the same orchard/grove. This may result in use of less than intended use rate (oz /A) on small trees</p> <p><b>Restrictions</b></p> <ol style="list-style-type: none"> <li>Do not apply within 21 days of harvest</li> <li>Do not apply more than 19 fl oz of F9318 per acre per application (or 0.012 lb ai/A/application of any product containing avermectin or 0.026 lb</li> </ol>				

		<p>ai/A/application of any product containing zeta cypermethrin)</p> <p>3 Do not apply more than 57 fl oz of F9318 per acre per 12 month cropping year (or 0.036 lb ai/A/application of any product containing avermectin or 0.078 lb ai/A/application of any product containing zeta cypermethrin)</p> <p>4 Do not make more than 2 consecutive applications of F9318 or any other product containing avermectin or a pyrethroid</p> <p><b>Grazing Restrictions</b> Do not allow livestock to graze or feed treated foliage to livestock</p>
--	--	---

### STORAGE AND DISPOSAL

Do not contaminate water food or feed by storage or disposal

#### Pesticide Storage

If storing this product below freezing user should shake or roll the container to ensure proper product consistency. Keep out of reach of children and animals. Store in original containers only. Store in a cool dry place and avoid excess heat. Carefully open containers. After partial use replace lids and close tightly. Do not put concentrate or dilute material into food or drink containers. Do not contaminate other pesticides fertilizers water food or feed by storage or disposal. In case of spill avoid contact isolate area and keep out animals and unprotected persons. Confine spills. Call CHEMTREC (transportation and spills) 1 (800) 424 9300 To confine spill. If liquid dike surrounding area or absorb with sand cat litter or commercial clay. If dry material cover to prevent dispersal. Place damaged package in a holding container. Identify contents.

#### 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 of the nearest EPA Regional Office for guidance.

#### Container Disposal

**Plastic Container** Non refillable container. Do not reuse or refill this container. **Triple rinse as follows** Empty the contents into application equipment or a mix tank and drain for 10 seconds after flow begins to drip. Fill container / full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or 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. **Then offer for recycling** if available or **reconditioning** if appropriate or puncture and dispose of in a **sanitary landfill**.

### Conditions of Sale and Limitation of Warranty and Liability

**NOTICE** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable return the product at once unopened and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as manner of use or application, weather, or crop conditions beyond the control of FMC or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold FMC and Seller harmless for any claims relating to such factors.

**Seller warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the Directions for Use when used in accordance with the directions under normal conditions of use. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW FMC**

**MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTIES WITH RESPECT TO THE SELECTION PURCHASE OR USE OF THIS PRODUCT. Any warranties, express or implied, having been made are inapplicable if this product has been contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to (or beyond the control of) seller or FMC, and buyer assumes the risk of any such use.**

To the extent consistent with applicable law, FMC or seller shall not be liable for any incidental, consequential, or special damages resulting from the use or handling of this product. **TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER AND THE EXCLUSIVE LIABILITY OF FMC AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF**

**THIS PRODUCT SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR AT THE ELECTION OF FMC OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

This Conditions of Sale and Limitation of Warranty and Liability may not be amended by any oral or written agreement.

FMC is a trademark of FMC Corporation  
© 2003 2012 FMC Corporation. All rights reserved.