



U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (7505C)
1200 Pennsylvania Ave., N.W.
Washington, D.C. 20460

EPA Reg. Number:

84930-30

Date of Issuance:

11/15/2010

NOTICE OF PESTICIDE:

- Registration
- Reregistration

(under FIFRA, as amended)

Term of Issuance:

Unconditional

Name of Pesticide Product:

ARC-Abamectin 0.15 EC
Insecticide

Name and Address of Registrant (include ZIP Code):

ARCANA, LLC.
P.O. Box 26
Timmath, CO 80547

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/reregistered 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 conditionally registered in accordance with FIFRA section 3(c)(5) provided that you:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product when the Agency requires all registrants of similar products to submit such data.
2. Make the following label changes before you release the product for shipment:
 - a. Revise the EPA Registration Number to read, "EPA Reg. No. 84930-30".

Signature of Approving Official:

Date:

Nov. 15, 2010

John Hebert, Product Manager (07)
Insecticide-Rodenticide Branch, Registration Division (7505P)

EPA Reg. No. 84930-30

- b. Delete the header row at the top of page 9, as page 8 already contains the header row for the Citrus Fruit Crop Group.
- 3. Submit one copy of the revised final printed label for the record 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 section 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records. If you have any questions regarding this notice, please contact Jennifer Urbanski at (703-347-0156) or urbanski.jennifer@epa.gov.

John Hebert
Product Manager (07)
Insecticide-Rodenticide Branch
Registration Division (7505P)

Enclosure- Stamped Labeling

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RESTRICTED USE PESTICIDE
TOXIC TO FISH, MAMMALS, 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.

GROUP **6** INSECTICIDE

ARC-Abamectin 0.15 EC Insecticide
MITICIDE/INSECTICIDE

ACTIVE INGREDIENT:
Abamectin (CAS No.'s 65195-56-4 and 65195-55-3):.....2.0%*
OTHER INGREDIENTS:.....98.0%
TOTAL:.....100.0%

Contains 0.15 pounds Abamectin per gallon.

KEEP OUT OF REACH OF CHILDREN
WARNING/AVISO
Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.
(If you do not understand the label, find someone to explain it to you in detail.)
SEE INSIDE BOOKLET FOR FIRST AID AND ADDITIONAL PRECAUTIONARY STATEMENTS

For Chemical Spill, Leak, Fire, or Exposure, Call CHEMTREC (800) 424-9300

If you do not agree with or do not accept any of directions for use, the warranty disclaimers, or limitations on liability, do not use the product, and return it unopened to the Seller, and the purchase price will be refunded.

EPA REG. NO. 84930-30
EPA EST. NO. _____

NET CONTENTS _____ GALS. (_____ Liters)

MANUFACTURED FOR
ARCANA LLC
P.O. BOX 26
TIMNATH, CO 80547

102110

ACCEPTED
NOV 15 2010

Under the Federal Insecticide, Fungicide,
and Rodenticide Act, as amended, for the
pesticide registered under:

EPA. Reg. No: 84930-30

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**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
WARNING**

May be fatal if swallowed. Causes substantial but temporary eye injury. Wear protective eyewear (goggles or face shield). **DO NOT** get in eyes, on skin, or on clothing. Harmful if inhaled or absorbed through the skin. Avoid breathing spray mist. 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 (PPE)

Some materials that are chemical-resistant to this product are listed below. For more options, follow the instructions for Category B on an EPA chemical-resistant category selection chart.

Applicators and other handlers must wear:

- Coveralls over short-sleeved shirt and short pants
- Chemical-resistant gloves, such as barrier laminate or butyl rubber \geq 14 mils
- Chemical-resistant footwear plus socks
- Protective eyewear
- Chemical-resistant headgear for overhead exposure
- Chemical-resistant apron when cleaning equipment, mixing, or loading

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 exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

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.

FIRST AID

If swallowed:	<ul style="list-style-type: none"> • 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 the poison control center or doctor. • DO NOT give anything by mouth to an unconscious person.
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 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 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.

HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-424-9300 for emergency medical treatment information.

NOTE TO PHYSICIAN

Early signs of intoxication include dilation of pupils, muscular incoordination, and muscle tremors. Toxicity following accidental ingestion of this product can be minimized by early administration of chemical adsorbents (e.g., activated charcoal). If toxicity from exposure has progressed to cause severe vomiting, the extent of resultant fluid and electrolyte imbalance should be gauged. Appropriate supportive parenteral fluid replacement therapy should be given, along with other required supportive measures (such as maintenance of blood pressure levels and proper respiratory functionality) as indicated by clinical signs, symptoms, and measurements.

In severe cases, observations should continue for at least several days until clinical condition is stable and normal. Since abamectin is believed to enhance GABA activity in animals, it is probably wise to avoid drugs that enhance GABA activity (barbiturates, benzodiazepines, valproic acid) in patients with potentially toxic abamectin exposure.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and wildlife. **DO NOT** apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. **DO NOT** apply when weather conditions favor drift from target areas. **DO NOT** contaminate water when disposing of equipment washwater or rinsate. 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 if bees are visiting the treatment area.

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 county agriculture commissioner to determine use limitations that apply in your area.

PHYSICAL OR CHEMICAL HAZARDS

DO NOT use or store near heat or open flame.

ATTENTION: This product contains a chemical (N-methyl pyrrolidone) known to the state of California to cause birth defects or other reproductive harm.

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.

AGRICULTURAL USE REQUIREMENTS

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

DO NOT enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

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

- Coveralls over short-sleeved shirt and short pants
- Chemical-resistant gloves, such as barrier laminate or butyl rubber \geq 14 mils
- Chemical-resistant footwear plus socks
- Protective eyewear
- Chemical-resistant headgear for overhead exposure

FAILURE TO FOLLOW DIRECTIONS AND PRECAUTIONS ON THIS LABEL MAY RESULT IN CROP INJURY, POOR PEST CONTROL, AND/OR ILLEGAL RESIDUES.

PRODUCT INFORMATION

When applied following the **Directions for Use** on this label, this product controls listed mites and insects in various crops. Optimum control of target insects requires this product to be mixed with sufficient amounts of water (and horticultural oil or nonionic surfactants, when recommended) to provide a thorough coverage of foliage. Spray volume in gallons will vary with the size and number of trees per acre or with the density of target crop foliage. Optimum insect control is achieved only if the foliage receives a thorough coverage of this product. Calibrate all spray equipment to ensure delivery of sufficient spray solution to thoroughly cover foliage of target crops.

Horticultural Oils: When specified on this label, apply this product with horticultural oils (NOT dormant oils) which are approved for use on the target crop. This combination of products will provide residual control and/or improved efficacy. If using concentrations of oils at greater than 2% (v/v), test this rate on small plots for phytotoxicity before using this rate to treat larger plots. To prevent crop injury, observe all precautions and restrictions on the oil label. See precautions under **Phytotoxicity**, below.

Nonionic Surfactants: Nonionic surfactants applied in combination with this product can provide better insect control by allowing the spray mixture to distribute evenly on the leaf and enter the leaf cuticle. When using this product in combination with a nonionic surfactant, carefully follow the Directions for Use and Precautions on the nonionic surfactant label and in official spray guides. See precautions under **Phytotoxicity**, below.

Phytotoxicity: Although this product has been tested for phytotoxicity and compatibility and is safe to use on a variety of crops and as a tank mix in combination with many commonly used products, it is not possible to test all crop varieties grown under a variety of growing conditions or to test all possible combination of products. Before use, test potential mixtures (pesticides, crop oils, nonionic surfactants, and nutritional additives) with this product to ensure physical compatibility and lack of phytotoxic effects to the target crop.

New York State Restrictions: Aerial applications of this product are prohibited in the State of New York.

DO NOT apply this product through any type of irrigation system.

[OPTIONAL TEXT FOR TIP-N-MEASURE CONTAINERS]

Use Directions for Tip-N-Measure Container:

1. Remove the measuring chamber cap and seal over container opening.
2. Replace the cap and securely tighten.
3. Tip the container until the measuring chamber contains the desired amount of product.
4. Return container to its level position.
5. Remove measuring chamber cap and pour product into proper application equipment.
6. Replace the cap and securely tighten.

SPRAY DRIFT MANAGEMENT

Except as noted below for specific crops, do not apply with ground application equipment within 25 ft., or by aircraft within 150 ft. of lakes, reservoirs, rivers, permanent streams, marshes, potholes, or natural ponds; estuaries or commercial fish farm ponds. **DO NOT** cultivate within 25 ft. of the aquatic area so as to allow growth of a vegetative filter strip.

All aerial and ground application equipment must be properly calibrated and maintained using appropriate carriers. For aerial applications, the spray boom should be mounted on the aircraft so as to minimize drift caused by wing tip vortices. The minimum practical boom length should be used and must not exceed 75% of wing span or rotor diameter.

Use the largest droplet size consistent with good pest control. Formation of very small droplets may be minimized by appropriate nozzle selection, by orienting nozzles away from the air stream as much as possible, and by avoiding excessive spray boom pressure. Sprays should be released at the lowest height consistent with pest control and flight safety. Applications more than 10 ft. above the crop canopy should be avoided.

Make aerial or ground applications when the wind velocity favors on-target product deposition (approximately 3 to 10 mph). **DO NOT** apply when wind velocity exceeds 15 mph. Avoid applications when wind gusts approach 15 mph. Inclusion of a compatible drift reducing agent is encouraged. Risk of exposure to aquatic areas can be reduced by avoiding applications when wind direction is toward aquatic areas. **DO NOT** cultivate within 25 ft. of the aquatic area so as to allow growth of a vegetative filter strip.

Low humidity and high temperatures increase the evaporation rate of spray droplets and therefore the likelihood of increased spray drift to aquatic areas. Avoid spraying during conditions of low humidity and/or high temperature or, when making applications under these conditions, set up equipment to produce larger droplets to compensate for evaporation.

DO NOT make aerial or ground applications during temperature inversions or if heavy rainfall is expected during application. 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 in humid areas. The applicator may detect the presence of an inversion by producing smoke and observing a smoke layer near the ground surface.

Observe the following precautions when using ground application equipment to spray tree crops (almonds, apples, avocado, citrus, plums, prunes, walnuts) 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 this product when weather conditions favor drift to aquatic areas
- **DO NOT** apply within 110 ft. upwind of aquatic areas or when wind speed is above 8 mph.

- Spray last 3 rows upwind 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 rows.

RESISTANCE MANAGEMENT

Because of the inherent risks of resistance development to any product, it is strongly advised that this product be used in a sound resistance management program which includes rotation with other products with different modes of action. Effective control of labeled pests will not be achieved if insect or mite-tolerant strains develop. When applying this product to plants that are hosts of labeled pests with multiple generations per crop per year, use resistance management practices such as the following.

- Rotate this product with other products that have different modes of action,
- **DO NOT** apply this product to successive insect generations,
- Follow the use rates and intervals between applications that are specified in this label,
- Use a non-chemical alternative (such as beneficial arthropods),
- Plant susceptible plants following non-susceptible plants, and
- Use other cultural practices

For additional information regarding the implementation of these or other resistance management practices, consult your local agricultural advisor or Arcana representative.

CROP USE DIRECTIONS

ALMONDS AND WALNUTS

Target Insects	Application Rate of ARC-Abamectin 0.15 EC Insecticide fl. oz./A (fl. oz./100 gal)	Application Instructions and Timing	Restrictions
Two-spotted spider mite Pacific spider mite Strawberry spider mite European red mite	Concentrate Sprays: 10-20 fl. oz/A (Dilute Sprays: 2.5-5.0 fl. oz./100 gal) Plus a horticultural spray oil (required for optimum insect control)	Apply using conventional dilute or concentrate ground equipment. Use sufficient volumes (greater than 40 gal of water/A) to ensure thorough foliage coverage. Apply this product when spider mites first appear. Greater residual spider mite control is achieved when spray is deposited on new foliage growth. If needed, a second application may be made but allow at least 21 days to elapse after the first application. To manage resistance, if pest infestation requires additional treatments, use other alternate insecticides with different modes of action which are labeled for use on these pests and crops.	Pre-Harvest Interval – 21 days DO NOT exceed 20 fl. oz/A per application or 40 fl. oz/A per growing season. DO NOT make more than 2 applications per season. DO NOT apply by air. Refer to additional directions on spray oils in the GENERAL INFORMATION section. See specific restrictions for this crop in the SPRAY DRIFT MANAGEMENT section of this label.
Horticultural Spray Oil (DO NOT use a dormant oil)	1 gal./A (minimum) (0.25%, v/v)		DO NOT graze livestock in treated orchards.

NOTE: Concentrate Spray rates (ARC- Abamectin 0.15 EC Insecticide/A) are determined by selecting the amount needed for a full cover dilute spray. The amount of ARC- Abamectin 0.15 EC Insecticide/A as a concentrate spray is the same amount as required for dilute sprays to the orchard and could be less than 10 fl oz. ARC- Abamectin 0.15 EC Insecticide/A for small trees. Rates of ARC- Abamectin 0.15 EC Insecticide/100 gal are based on 400 gal/A of dilute spray.

APPLES

Target Insects	Application Rate of ARC- Abamectin 0.15 EC Insecticide fl. oz./A (fl. oz./100 gal)	Application Instructions and Timing	Restrictions
<p>Two-spotted spider mite McDaniel spider mite European red mite Tentiform leafminers White apple leafhopper</p>	<p>Concentrate Sprays: 10-20 fl. oz/A (Dilute Sprays: 2.5-5.0 fl. oz./100 gal)</p> <p>ADD a horticultural oil for best results</p>	<p>Apply using conventional dilute or concentrate ground equipment.</p> <p>Use sufficient volumes (greater than 40 gal of water/A) to ensure thorough foliage coverage.</p> <p>White Apple Leafhopper (Not for use west of the Rocky Mountains): Apply this product only to the first generation soon after petalfall; use in combination with horticultural spray oil.</p> <p>Spider Mites: Apply when mites first appear. For best results, apply before 5 spider mites per leaf is observed. Spray deposits of this product plus a horticultural spray oil on new foliage growth provides greater residual control. Apply this product for spider mite control only during petalfall and up to six weeks following petalfall.</p> <p>Tentiform Leafminers: For best results, apply to control new hatch (eggs) and early stages of first and second generation leafminers. DO NOT apply during bloom.</p> <p>Application without horticultural spray oil may result in reduced efficacy and/or residual control. However, fruit injury to certain apple varieties (on light-skinned varieties such as Golden Delicious) may occur with this combination of this product and spray oil if other products are applied after this spray mix application. Refer to the Directions for Use and Precautions on horticultural spray oil labels.</p>	<p>Pre-Harvest Interval – 28 days</p> <p>DO NOT exceed 20 fl. oz/A per application or 40 fl. oz/A per growing season.</p> <p>DO NOT apply this product to control white apple leafhopper west of the Rocky Mountains.</p> <p>DO NOT make more than 2 applications per season.</p> <p>DO NOT apply by air.</p> <p>Refer to additional directions on spray oils in the GENERAL INFORMATION section.</p> <p>See specific restrictions for this crop in the SPRAY DRIFT MANAGEMENT section of this label.</p> <p>To avoid phytotoxicity or loss of crop, do not apply this product plus oil if Captan was applied 14 days before the application or if Captan will be applied 14 days after application.</p> <p>DO NOT graze livestock in treated orchards.</p>
<p>Horticultural Spray Oil (DO NOT use a dormant oil)</p>	<p>1 gal./A (minimum) (0.25%, v/v)</p>	<p>If needed, a second application may be made but allow at least 21 days to elapse after the first application.</p>	

NOTE: Concentrate Spray rates (ARC- Abamectin 0.15 EC Insecticide/A) are determined by selecting the amount needed for a full cover dilute spray. The amount of ARC- Abamectin 0.15 EC Insecticide/A as a concentrate spray is the same amount as required for dilute sprays to the orchard and could be less than 10 fl oz. ARC- Abamectin 0.15 EC Insecticide/A for small trees. Rates of ARC- Abamectin 0.15 EC Insecticide/100 gal are based on 400 gal/A of dilute spray.

AVOCADOS

Target Insects	Application Rate of ARC- Abamectin 0.15 EC Insecticide fl. oz./A	Application Instructions and Timing	Restrictions
<p>Avocado Thrips <i>(Scirtothrips perseae)</i></p>	<p>DO NOT use less than 10 fl. oz. of this product per Acre</p> <p>Low to moderate insect infestations: 10.0-15.0 Heavy pest infestations: 15.0-20.0</p> <p>ADD a horticultural oil for best results</p>	<p>Apply using ground equipment in 100 or more gal water/A. If using 400 gal/A or more, apply 2.5 fl. oz. of this product/100 gal of water and 1.0-4.0% of NR (narrow range) 415 oil.</p> <p>Although aerial applications are permitted when this product is applied in 50 or more gal water/A, better control of target insects is obtained using ground applications. Users accept all liability for level and duration of thrip control from aerial applications of this product.</p> <p>Apply this product when thrips first appear but prior to finding 5 immature thrips per leaf or fruit. For low to moderate infestations, include 1.0-4.0% of NR 415 oil in combination with this product and the horticultural spray oil approved for use on avocados.</p>	<p>Pre-Harvest Interval – 14 days</p> <p>DO NOT make more than 2 applications per season.</p> <p>DO NOT exceed 20 fl. oz/A per application or more than 40 fl. oz./A per season.</p> <p>DO NOT allow livestock to graze in treated orchards.</p> <p>Refer to additional directions on spray oils in the GENERAL INFORMATION section.</p>
<p>Horticultural Spray Oil (DO NOT use a dormant oil)</p>	<p>Minimum 1 to 4%, v/v (minimum)</p>	<p>If needed, a second application may be made but allow at least 30 days to elapse after the first application.</p>	
<p>NOTE: Low infestations are defined as 1-2 immature thrips per leaf/fruit; moderate infestations are defined as 2-4 thrips per leaf/fruit; severe infestations are defined as more than 5 thrips per leaf/fruit.</p>			

CELERIAC (*Apium graveollens*)

Target Insects	Application Rate of ARC- Abamectin 0.15 EC Insecticide fl. oz./A	Application Instructions and Timing	Restrictions
<p>Two-spotted spider mite</p>	<p>16.0</p> <p>ADD a horticultural oil for best results</p>	<p>Apply using ground equipment using conventional dilute or concentrate sprayers.</p> <p>Apply when mites first appear using sufficient volumes (greater than 20 gal of water per acre) to ensure thorough foliage coverage.</p> <p>If needed, a second application may be made but allow at least 7 days to elapse after the first application.</p> <p>A non-ionic surfactant (not binder</p>	<p>Pre-Harvest Interval – 7 days</p> <p>To avoid insect resistance to this product, do not apply more than two sequential applications.</p> <p>DO NOT exceed 48 fl. oz/A after transplanting.</p> <p>Refer to additional directions on nonionic surfactants in the GENERAL INFORMATION section.</p> <p>DO NOT apply by air.</p>

		<p>or sticker-types) used in combination with this product provides improved wetting of foliage and allows an even deposition of the spray.</p>
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CITRUS FRUIT CROP GROUP

[Some of the crops in this group include citrus citron, citrus hybrids, citrus species (includes chironja, tangelo, tangor), grapefruit, kumquat, lemon, lime, mandarin (tangerine), pummelo, Satsuma mandarin, sour orange, and sweet orange.]

Target Insects	Application Rate of ARC-Abamectin 0.15 EC Insecticide fl. oz./A (fl. oz./100 gal)	Application Instructions and Timing	Restrictions
Broad mite Citrus bud mite Two-spotted spider mite	Concentrate Sprays: 10-20 fl. oz/A (Dilute Sprays: 1.0-2.0 fl. oz./100 gal)	Apply using conventional dilute or concentrate ground equipment. Use sufficient volumes (greater than 40 gal of water/A) to ensure thorough foliage coverage.	<p>Pre-Harvest Interval – 7 days</p> <p>To avoid insect resistance to this product, do not apply to citrus grown in nurseries.</p> <p>DO NOT apply this product, or any other abamectin containing product within 30 days of the last treatment.</p> <p>DO NOT exceed 40 fl. oz/A (0.047 lb. a.i./A) of this product, or any other abamectin containing product per growing season.</p> <p>DO NOT make more than 3 applications of this product, or any other abamectin containing product per growing season.</p> <p>DO NOT allow livestock to graze in treated orchards.</p> <p>Refer to additional directions on spray oils in the GENERAL INFORMATION section.</p> <p>See specific restrictions for this crop in the SPRAY DRIFT MANAGEMENT section of this label.</p> <p>DO NOT apply by air.</p>
Citrus rust mite	Concentrate Sprays: 5-20 fl. oz/A (Dilute Sprays: 0.5-2.0 fl. oz./100 gal)	ADD a horticultural oil for best results Asian citrus psylla, mites, and leafminers: Make spring, summer or fall applications when nymphs and adults are present to protect new growth of citrus trees. Citrus bud mites: spray at "budswell".	
Citrus leafminer	Concentrate Sprays: 5-20 fl. oz/A (Dilute Sprays: NR)	Thrips: this product only controls the current generation and timing must occur after start of egg hatch through mid-hatch. For Asian citrus psylla, broad mites, citrus rust mites, and citrus leafminers, optimum results are achieved if spray applications are made at 150-300 gals. Spray mixture/A plus a minimum of 3 gal./A of horticultural oil. Apply with a ground speed of 1 to 1.5 mph. For citrus bud mite, optimum results are achieved if spray applications are made at 500 gals spray mix/A plus a minimum of 0.5% of horticultural oil.	
Asian citrus psylla Citrus thrips	Concentrate Sprays: 10-20 fl. oz/A (Dilute Sprays: NR)	For thrips, optimum spray coverage of foliage is achieved if spray applications are made at 100-250 gals./A.	
Horticultural Spray Oil (DO NOT use a dormant oil)	1 gal./A (minimum) (0.20%, v/v); see specific rates for certain pests under Application Instructions and Timing	To manage resistance, if pest infestation requires additional treatments, use other alternate insecticides with different modes of action which are labeled for use on these pests and crops.	

NR = Not recommended.

NOTE: Concentrate Spray rates (ARC- Abamectin 0.15 EC Insecticide /A) are adjusted to apply the amount/A equal to that used in full cover dilute spray. The amount of ARC- Abamectin 0.15 EC Insecticide/A as a concentrate spray is

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Target Insects	Application Rate of ARC-Abamectin 0.15 EC Insecticide fl. oz./A (fl. oz./100 gal)	Application Instructions and Timing	Restrictions
<p>the same amount as required for dilute sprays to the orchard and could be less than 10 fl oz. ARC- Abamectin 0.15 EC Insecticide/A for small trees. Rates of ARC- Abamectin 0.15 EC Insecticide/100 gal are based on 1,000 gal/A of dilute spray.</p>			

COTTON

Target Insects	Application Rate of ARC-Abamectin 0.15 EC Insecticide fl. oz./A	Application Instructions and Timing	Restrictions
<p>Two-spotted spider mites Carmin spider mites Pacific spider mites Strawberry spider mites</p>	<p>Early season: 4-6</p>	<p>Apply this product when mites first appear. Rate will depend on the cotton plant size and thickness of foliage. Use the 4-6 fl. oz./A rate only early in season and for cotton plants 10 inches or less in height. Applications can be made by air or ground using a minimum of 5 gallons of water/A. West of the Rockies: DO NOT apply less than 4 fl. oz./A and can only be applied by ground equipment.</p>	<p>DO NOT apply more than 16 fl. oz/A per application. DO NOT make more than 2 applications per season with a 21-day interval between applications. DO NOT exceed 32 fl. oz/A per growing season. Pre-Harvest Interval – 20 days DO NOT graze livestock in treated fields or feed cotton foliage to livestock.</p>
	<p>Mid-season/Lay-by: 8-16</p>	<p>Apply this product when mites first appear. Rate will depend on the cotton plant size and thickness of foliage. Applications can be made by air or ground using a minimum of 5 gallons of water/A.</p>	

CUCURBITS CROP GROUP

[Some of the crops in this group include citron melon, cucumbers, gherkin, edible gourds (includes hyotan, cucuzz, hechima, Chinese okra); *Momordica* spp., (includes balsam apple, balsam pear, bittermelon, Chinese cucumber); muskmelon, cantaloupe, pumpkin, summer squash, winter squash, (includes butternut squash, calabaza, hubbard squash, acorn squash, spaghetti squash)]

Target Insects	Application Rate of ARC-Abamectin 0.15 EC Insecticide fl. oz./A	Application Instructions and Timing	Restrictions
Spider mites Leafminers	Low to moderate pest infestations: 8.0-12.0 Heavy pest infestations: 16.0	Use ground equipment in 20 or more gal water/A. Although aerial applications are permitted when this product is applied in 5 or more gal water/A, better control of target insects is obtained using ground applications. Users accept all liability for level and duration of mite control from aerial applications of this product. Apply when insects first appear. Increased water volumes are required under certain situations (severe pest infestations, highly dense foliage, elevated temperatures) to ensure thorough foliage coverage. If needed, a second application may be made but allow at least 7 days to elapse after the first application.	Pre-Harvest Interval – 7 days DO NOT exceed 48 fl. oz/A per growing season. DO NOT make more than two sequential applications per season. DO NOT apply by air in the State of New York.

FRUITING VEGETABLES CROP GROUP

[Some of the crops in this group include tomato, eggplant, peppers (including bell pepper, chili pepper, cooking pepper, pimento, sweet pepper); tomatillo]

Target Insects	Application Rate of ARC-Abamectin 0.15 EC Insecticide fl. oz./A	Application Instructions and Timing	Restrictions
Broad mite Spider mites Tomato Russet mite Colorado potato beetle <i>Liriomyza</i> leafminers <i>Thrips palmi</i>	Low to moderate pest infestations: 8.0-12.0 Heavy pest infestations: 16.0 ADD a nonionic surfactant for best results	Use ground equipment in 20 or more gal water/A. Although aerial applications are permitted when this product is applied in 5 or more gal water/A, better control of target insects is obtained using ground applications. Users accept all liability for level and duration of mite control from aerial applications of this product. Apply when insects first appear. Increased water volumes are required under certain situations (severe pest infestations, highly dense foliage, elevated temperatures) to ensure thorough foliage coverage. If needed, a second application may	Pre-Harvest Interval – 7 days To avoid insect resistance to this product, do not apply to vegetables grown for transplant. DO NOT exceed 48 fl. oz/A per growing season. DO NOT make more than 2 sequential applications. Refer to additional directions on nonionic surfactants in the GENERAL

		<p>be made but allow at least 7 days to elapse after the first application.</p> <p>A non-ionic surfactant (not binder or sticker-types) used in combination with this product provides improved wetting of foliage and allows an even deposition of the spray.</p>	<p>INFORMATION section.</p> <p>DO NOT apply by air in the State of New York.</p>
Tomato pinworm	16.0	<p>Tomato pinworm: Make applications up through the time when newly emerged larvae are detected.</p>	

GRAPES

Target Insects	Application Rate of ARC-Abamectin 0.15 EC Insecticide fl. oz./A	Application Instructions and Timing	Restrictions
<p>Two-spotted spider mite</p> <p>Pacific spider mite</p> <p>Willamette spider mite</p> <p>Western grapeleaf skeletonizer</p>	<p>Low to moderate pest infestations: 8.0-12.0</p> <p>Heavy pest infestations: 16.0</p> <p>ADD a nonionic surfactant for best results</p>	<p>Use conventional ground application equipment in 50 gal or more of water/A to ensure thorough foliage coverage, or with electrostatic spray equipment in 5 gal or more of water/A.</p> <p>Apply when mites first appear (or before more than 5 motiles per leaf are observed). For Western grapeleaf skeletonizer, apply after egg hatch or when larvae are first observed.</p> <p>Maximum coverage is required to control these pests, and this product must be applied to both sides of the rows. DO NOT spray alternate rows.</p> <p>If needed, a second application may be made but allow at least 21 days to elapse after the first application.</p> <p>A non-ionic (not binder or sticker-type) surfactant must be used in combination with this product to provide improved wetting of foliage and an even deposition of the spray. It is impossible to test the safety of this product plus non-ionic surfactants on all grape varieties under the various conditions which lead to phytotoxicity. Therefore carefully follow the directions for use on the nonionic surfactant label.</p>	<p>Pre-Harvest Interval – 28 days</p> <p>DO NOT exceed 16 fl. oz/A per application or 32 fl. oz/A per growing season.</p> <p>DO NOT make more than 2 applications per season.</p> <p>DO NOT graze livestock in treated vineyards.</p> <p>Refer to additional directions on nonionic surfactants in the GENERAL INFORMATION section.</p> <p>DO NOT apply by air.</p>

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HERB CROP SUBGROUP (EXCEPT CHIVES)

[Some of the crops in this group include basil, chamomile, catnip, coriander (leaf), dill weed, lavender, marigold, marjoram (*Oiganum* species), nasturtium, parsley (dried), rosemary, sage, summer and winter savory, tarragon, thyme, and wintergreen.]

Target Insects	Application Rate of ARC-Abamectin 0.15 EC Insecticide fl. oz./A	Application Instructions and Timing	Restrictions
<i>Liriomyza</i> leafminers	<p>Low to moderate pest infestations: 8.0</p> <p>Heavy pest infestations: 16.0</p> <p>ADD a nonionic surfactant for best results</p>	<p>Apply using ground equipment using conventional dilute or concentrate sprayers.</p> <p>Apply when adult leafminer flies first appear using sufficient volumes (greater than 30 gal of water per acre) to ensure thorough foliage coverage.</p> <p>If needed, a second application may be made but allow at least 7 days to elapse after the first application.</p> <p>A non-ionic surfactant (not binder or sticker-types) used in combination with this product provides improved wetting of foliage and allows an even deposition of the spray on the foliage.</p>	<p>Pre-Harvest Interval – 14 days</p> <p>DO NOT apply more than 6 applications of 8 fl. oz. of this product/A or 3 applications of 16 fl. oz. of this product/A per cropping season.</p> <p>DO NOT make more than 2 applications per single cutting (harvest).</p> <p>DO NOT apply by air.</p> <p>Refer to additional directions on nonionic surfactants in the GENERAL INFORMATION section.</p> <p>DO NOT graze livestock in treated fields or feed treated foliage to livestock.</p>

HOPS (EXCLUDING CALIFORNIA)

Target Insects	Application Rate of ARC-Abamectin 0.15 EC Insecticide fl. oz./A	Application Instructions and Timing	Restrictions
Two-spotted spider mites	<p>8.0 (minimum)-16.0</p> <p>ADD a nonionic surfactant for best results</p>	<p>Use conventional ground application as dilute or concentrate sprays. Use sufficient volumes (greater than 40 gal of water/A) to ensure thorough foliage coverage. If trellis height is 6-8 feet, use 40 gal of water/A at the 8-16 fl. oz/A rate; if height is greater than 6-8 feet, use 100 gal/A at the 16 fl. oz/A rate.</p> <p>Note that while concentrate sprays DO NOT require as much water, the amount of this product/A should be the same as for dilute sprays.</p> <p>Apply when mites first appear. If needed, a second application may be made but allow at least 21 days to elapse after the first application and repeat application only after using an alternative miticide with a</p>	<p>Pre-Harvest Interval – 28 days</p> <p>DO NOT exceed 16 fl. oz/A per application or 32 fl. oz/A per growing season.</p> <p>DO NOT apply by air.</p> <p>DO NOT apply more than 2 applications per growing season.</p> <p>Refer to additional directions on nonionic surfactants in the GENERAL INFORMATION section.</p> <p>DO NOT graze livestock in treated hop yards.</p>

		different mode of action. A non-ionic surfactant (not binder or sticker-types) used in combination with this product provides improved wetting of foliage and allows an even deposition of the spray on the foliage.	
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LEAFY VEGETABLE CROP GROUP

[Some of the crops in this group include celery, lettuce (head and leaf), amaranth (Chinese spinach), garden cress, upland cress, dandelion, endive, fennel, parsley, radicchio, rhubarb, spinach, and Swiss chard.]

Target Insects	Application Rate of ARC-Abamectin 0.15 EC Insecticide fl. oz./A	Application Instructions and Timing	Restrictions
Carmine spider mite <i>Liriomyza</i> leafminers Two-spotted spider mite	Low to moderate pest infestations: 8.0-12.0 Heavy pest infestations: 16 ADD a nonionic surfactant for best results	Apply this product when mites or adult leafminer flies are observed and use ground equipment in 20 or more gal water/A. Although aerial applications are permitted when this product is applied in 5 or more gal water/A, better control of target insects is obtained using ground applications. Users accept all liability for level and duration of insect control from aerial applications of this product. Increased water volumes are required under certain situations (severe pest infestations, highly dense foliage, elevated temperatures) to ensure thorough foliage coverage. If needed, a second application may be made but allow at least 7 days to elapse after the first application. A non-ionic surfactant (not binder or sticker-types) used in combination with this product provides improved wetting of foliage and allows an even deposition of the spray on the foliage.	Pre-Harvest Interval – 7 days DO NOT exceed 48 fl. oz/A per growing season. To avoid insect resistance to this product, do not apply to vegetables grown for transplants. DO NOT make more than 2 sequential applications. Refer to additional directions on nonionic surfactants in the GENERAL INFORMATION section. DO NOT apply by air in the State of New York.

MINT (PEPPERMINT AND SPEARMINT)

Target Insects	Application Rate of ARC-Abamectin 0.15 EC Insecticide fl. oz./A	Application Instructions and Timing	Restrictions
Two-spotted spider mite	8-12.0 ADD a nonionic	Apply this product when mites first appear and use ground equipment in 20 or more gal water/A. Although aerial	Pre-Harvest Interval – 28 days DO NOT exceed 12 fl. oz./A per application or 36 fl. oz/A

	<p>surfactant for best results</p>	<p>applications are permitted when this product is applied in 5 or more gal water/A, better control of target insects is obtained using ground applications. Users accept all liability for level and duration of insect control from aerial applications of this product.</p> <p>Increased water volumes are required under certain situations (severe pest infestations, highly dense foliage, elevated temperatures) to ensure thorough foliage coverage.</p> <p>If needed, a second application may be made but allow at least 7 days to elapse after the first application.</p> <p>A non-ionic surfactant (not binder or sticker-types) used in combination with this product provides improved wetting of foliage and allows an even deposition of the spray on the foliage.</p>	<p>per growing season.</p> <p>DO NOT make more than 2 sequential applications.</p> <p>DO NOT apply by air in the State of New York.</p> <p>Refer to additional directions on nonionic surfactants in the GENERAL INFORMATION section.</p> <p>DO NOT graze livestock in treated fields or feed treated foliage to livestock.</p>
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PEARS (INCLUDING ORIENTAL PEAR TREES)

Target Insects	Application Rate of ARC-Abamectin 0.15 EC Insecticide fl. oz./A (fl. oz./100 gal)	Application Instructions and Timing	Restrictions
<p>Two-spotted spider mite McDaniel spider mite European red mite Pear rust mite Yellow mite Pear psylla</p>	<p>Concentrate Sprays: 10-20 fl. oz/A (Dilute Sprays: 2.5-5.0 fl. oz./100 gal)</p> <p>ADD a horticultural oil for best results</p>	<p>Apply using conventional dilute or concentrate ground equipment.</p> <p>Use sufficient volumes (greater than 40 gal of water/A) to ensure thorough foliage coverage.</p> <p>If needed, a second application may be made but allow at least 21 days to elapse after the first application.</p>	<p>Pre-Harvest Interval – 28 days</p> <p>DO NOT exceed 20 fl. oz/A per application or 40 fl. oz/A per growing season.</p> <p>DO NOT make more than 2 applications per season.</p> <p>DO NOT apply by air.</p> <p>See specific restrictions for this crop in the SPRAY DRIFT MANAGEMENT section of this label.</p> <p>Refer to additional directions on spray oils in the GENERAL INFORMATION section.</p>
<p>Horticultural Spray Oil (DO NOT use a</p>	<p>1 gal/A, minimum (0.25%, v/v)</p>		<p>To avoid phytotoxicity or loss of crop, do not apply this</p>

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dormant oil)		<p>product plus oil if Captan was applied 14 days before the application or if Captan will be applied 14 days after application.</p> <p>DO NOT graze livestock in treated orchards.</p>
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NOTE: Concentrate Spray rates (ARC- Abamectin 0.15 EC Insecticide/A) are determined by selecting the amount needed for a full cover dilute spray. The amount of ARC- Abamectin 0.15 EC Insecticide/A as a concentrate spray is the same amount as required for dilute sprays to the orchard and could be less than 10 fl oz. ARC- Abamectin 0.15 EC Insecticide/A for small trees. Rates of ARC- Abamectin 0.15 EC Insecticide/100 gal are based on 400 gal/A of dilute spray.

PLUMS AND PRUNES

Target Insects	Application Rate of ARC- Abamectin 0.15 EC Insecticide fl. oz./A (fl. oz./100 gal)	Application Instructions and Timing	Restrictions
European red mite Pacific spider mite Two-spotted spider mite	Concentrate Sprays: 10-20 fl. oz/A (Dilute Sprays: 2.5-5.0 fl. oz./100 gal) PLUS a horticultural oil or nonionic surfactant (required for optimum insect control)	Apply using conventional dilute or concentrate ground equipment. Make applications when mites first are seen. Use sufficient volumes (greater than 40 gal of water/A) to ensure thorough foliage coverage. If needed, a second application may be made but allow at least 21 days to elapse after the first application. Always apply this product in combination with either a nonionic surfactant, or with horticultural spray oil (not a dormant oil), but use caution since oil may cause phytotoxicity to foliage and fruit.	Pre-Harvest Interval – 21 days DO NOT exceed 20 fl. oz/A per application or 40 fl. oz/A per growing season. DO NOT make more than 2 applications per season. Refer to additional directions on spray oils and nonionic surfactants in the GENERAL INFORMATION section. See specific restrictions for this crop in the SPRAY DRIFT MANAGEMENT section of this label.
Horticultural Spray oil (NOT a dormant oil) OR Nonionic Surfactant	1 gal/A (minimum) (0.25%, v/v)		DO NOT apply by air. DO NOT graze livestock in treated orchards.

NOTE: Concentrate Spray rates (ARC- Abamectin 0.15 EC Insecticide/A) are determined by selecting the amount needed for a full cover dilute spray. The amount of ARC- Abamectin 0.15 EC Insecticide/A as a concentrate spray is the same amount as required for dilute sprays to the orchard and could be less than 10 fl oz. ARC- Abamectin 0.15 EC Insecticide/A for small trees. Rates of ARC- Abamectin 0.15 EC Insecticide/100 gal are based on 400 gal/A of dilute spray.

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POTATOES

Target Insects	Application Rate of ARC-Abamectin 0.15 EC Insecticide fl. oz./A	Application Instructions and Timing	Restrictions
Colorado potato beetles Spider mites <i>Liriomyza</i> leafminers	Low to moderate pest infestations: 8.0-12.0 Heavy pest infestations: 16.0 ADD a horticultural oil for best results	Apply using conventional ground or aerial application equipment. Apply when mites and adult leafminer flies first appear. Use sufficient volumes (greater than 20 gal of water/A for ground applications and greater than 5 gal of water/A for aerial applications) to ensure thorough foliage coverage. Colorado potato beetle: Begin applications when 50% of the egg masses have hatched or larvae are observed. If a second application is made, ensure it is to control a single Colorado potato beetle generation. If needed, a second application may be made but allow at least 7 days to elapse after the first application. A non-ionic or silicone-based (not a sticker or binder type) surfactant used in combination with this product provides improved wetting of foliage and allows an even deposition of the spray.	Pre-Harvest Interval – 14 days DO NOT exceed 32 fl. oz/A per crop season for control of spider mites or Colorado potato beetle . DO NOT exceed 48 fl. oz/A per crop season for control of leafminers . DO NOT make more than 2 applications to control Colorado potato beetle per crop season. DO NOT make more than two sequential applications. DO NOT apply by air in the State of New York. Refer to additional directions on nonionic surfactants in the GENERAL INFORMATION section. DO NOT graze or feed treated foliage to livestock.

STRAWBERRIES

Target Insects	Application Rate of ARC-Abamectin 0.15 EC Insecticide fl. oz./A	Application Instructions and Timing	Restrictions
Two-spotted spider mite Strawberry spider mite	16.0 ADD a horticultural oil for best results	Apply using conventional ground equipment or electrostatic sprayers. Optimum coverage of the leaves (tops and bottoms) can be achieved by adjusting the spray volumes and placement of the nozzles. Apply when mites first appear using sufficient volumes (greater than 50 gal of water/A for conventional sprayers, greater than 10 gal of water/A for electrostatic sprayers) to ensure thorough foliage coverage. Make a second application at 7-10	Pre-Harvest Interval – 3 days To avoid insect resistance to this product, do not apply to strawberries grown in nurseries. DO NOT exceed 16 fl. oz/A per application or more than 64 fl. oz./A per growing season. Refer to additional directions on nonionic surfactants in the GENERAL INFORMATION section. DO NOT apply by air.

		<p>day intervals. Repeat the two step application process, if needed, but only 21-days after the second application is made.</p> <p>A non-ionic or silicone-based (not a sticker or binder type) surfactant used in combination with this product provides improved wetting of foliage and allows an even deposition of the spray.</p>	
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STORAGE AND DISPOSAL

DO NOT contaminate water, food, or feed by storage or disposal.

PESTICIDE STORAGE: Store in a tightly closed container in a cool, dry place.

PESTICIDE DISPOSAL: 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: Nonrefillable container. **DO NOT** reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. 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. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

SPILLS: For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes. In the event of a major spill, fire or other emergency, call 1-800-424-9300, day or night.

WARRANTY DISCLAIMER

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