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 applicators certification.

MITICIDE/INSECTICIDE

ACTIVE INGREDIENT:

GROUP

INSECTICIDE

Abamectin OTHER INGREDIENTS:

*1 gal. contains 0.15 lb. abamectin

KEEP OUT OF REACH OF CHILDREN WARNING / AVISO

Si usted no entiende la etiqueta, busque a alquien 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.)

IN CASE OF MEDICAL EMERGENCY INVOLVING THIS PRODUCT, CALL TOLL FREE, DAY OR NIGHT 1-866-303-6950

See additional precautionary statements directions for use in booklet.

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.

EPA Reg. No. 67760-71

EPA Est. No. DNK-4787-001

NET CONTENTS: 1 Gallon

Manufactured For: Cheminova, Inc. One Park Drive Suite 150 P.O. Box 110566 Research Triangle Park, NC 27709

0028834 12182013Book

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING/AVISO

Causes substantial but temporary eye injury. Do not get in eyes. Harmful if absorbed through skin or if, swallowed. Avoid contact with skin or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing own, or using tobacco. Remove and wash contaminated clothing before reuse.

	FIRST AID
IF IN EYES:	-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 eyeCall a poison control center or doctor for treatment advice.
IF SWALLOWED:	-Call a poison control center or doctor immediately for treatment adviceDo not give any liquid to the personDo not induce vomiting unless told to do so by a poison control center or doctorDo not give anything by mouth to an unconscious person.
IF ON SKIN OR CLOTHING:	-Take off contaminated clothingRinse skin immediately with plenty of water for 15-20 minutesCall a poison control center or doctor for treatment advice.
IF INHALED:	-Move person to fresh airIf person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possibleCall a poison control center or doctor for further treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-866-303-6950 for emergency medical treatment information.

NOTE TO PHYSICIAN

Early signs of intoxication include dilation of pupils, muscular incoordination, and muscular 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 parental 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 (harbiturates, benzodiazepines, valorois, activit in patients with potentially toxis abamectin exposure.

Personal Protective Equipment

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

Applicators and other handlers must wear:

- Coveralls worn over short-sleeved shirt and short pants
- Chemical resistant gloves EPA chemical resistance category E (e.g., barrier laminate or butyl rubber ≥ 14 mils)
- Chemical-resistant footwear plus socks
- Protective evewear
- 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 no reuse them. Follow manufacturer's instructions for cleaning/maintaining PE. If no such instructions for washables, 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 immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and wildlife. For terrestrial uses, 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 wash water 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.

This product may impact surface water quality due to runoff of rain water. This is especially true for poorfy draining soils and soils with shallow ground water. This product is classified as having a medium potential for reaching both surface water and aquatic sediment via runoff for several weeks to months after application. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water such as ponds, streams, and springs will reduce the potential loading of abamectin from runoff water and sediment. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours.

PHYSICAL OR CHEMICAL HAZARDS

Combustible. Do not use or store near heat or open flame.

ATTENTION

This product contains a chemical 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. 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 over short-sleeved shirt and short pants
- Chemical-resistant gloves EPA chemical-resistance category E (e.g., barrier laminate, nitrile rubber, neoprene rubber, viton)
- · Chemical resistant shoes and socks
- · Protective eyewear
- Chemical-resistant headgear for overhead exposure

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

PRODUCT INFORMATION

ZORO is an emulsifiable concentrate that will control certain pests on the crops listed on this label when the product is applied according to the Directions for Use. Thorough coverage of foliage is essential for good mite and insect control.

NOTE:

- Phytotoxicity: ZORO has been tested for phytotoxicity and has a wide margin of safety on a variety of crops. ZORO
 has also been shown to be compatible with many commonly used pesticides, crop oils, and nutritional sprays.
 However, since it is not possible to test a large number of possible mixtures, the user should pre-test any proposed
 mixtures with ZORO to ensure the physical compatibility and lack of ohytotoxic effects.
- New York State Restriction: Do not apply ZORO with aircraft in New York State.

Chemigation

Do not apply this product through any type of irrigation system.

Spray Drift Precautions with Aircraft or Ground Application Equipment

- Apply Zoro only when wind velocity favors on target deposition (approximately 3 to 10 mph).
- Do not apply with ground application equipment within 25 ft., or with aircraft within 150 ft. of lakes, reservoirs, rivers, permanent streams, marshes, potholes, natural ponds, estuaries, or commercial fish farm ponds.
- · Do not cultivate within 25 ft. of the aquatic area to allow growth of a vegtative filter strip.
- Do not allow this product to drift onto non-target areas. Drift might result in illegal residues or harm nontarget species. Risk of exposure to sensitive areas can be reduced by product application made when wind direction is away from sensitive areas.
- . Do not apply **ZORO** when weather conditions may cause drift.
- Avoid application when the temperature is high and/or the humidity is low. These conditions increase the
 evaporation of spray droplets and the likelihood of drift to aquatic areas.
- Do not apply when wind speed or wind gusts are greater than 15 mph.
- Do not apply when wind speed is below 2 mph because wind direction will vary and there is a high potential for inversion.

Ground application to 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 ZORO when weather conditions may cause drift in aquatic areas.
- Do not apply within 110 ft, upwind of aquatic areas or when wind speed is above 8mph.
- 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 when turning at row
 ends and when passing gaps in rows of trees or hops.

Spray Drift Precautions for Aerial Application

Drift Management Requirements

The following drift management requirements must be followed to avoid off-target movement from aerial applications to agricultural field crops.

Outermost Nozzle Distance

The distance of the outermost nozzles on the boom must not exceed ¾ the length od the wingspan or rotor.

Nozzle Direction

Nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees.

Maximum Wind Speed

Do not apply when wind speed is greater than 15 mph.

Droplet Size

The most effective way to reduce drift potential is to apply large droplets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential but will not prevent drift if applications are made improperly, or under unfavorable environmental conditions (see Wind, Temerature, Humidity and Temperature Inversions.)

Controlling Droplet Size

Volume

 Use high flow rate nozzles to apply the highest pratical spray volume. Nozzles with higher rated flows produce larner droplets

Pressure

Do not exceed the nozzle manufacturer's recommended pressures. For many nozzle types, narrower spray
angles produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back
produce the largest droplets and the lowest drift.

Number of Nozzles

Use the minimum number of nozzles that provide uniform coverage.

Nozzle Orientation

 Orienting nozzles so that the spray is released parallel to the air stream produces larger droplets than other orientations and is the recommended practice. Significant deflection from horizontal will reduce droplet size and increase drift potential.

Nozzle Type

Use a nozzle type that is designed for the intended application. With most mozzle types, narrower spray angles
produce larger droplets. Consider using low-drift nozzles. Solid-stream nozzles oriented straight back produce
the largest droplets and the lowest drift.

· Boom Length

 For some use patterns, reducing the effective boom length to less than ¾ of the wingspan or rotor length may further reduce drift without reducing swatch width.

· Application Height

 Application should not be made at a height greater than 10 ft. above the top of the target plants unless a greater height is required for aircraft safety. Making applications at the lowest heigh that is safe reduces exposure fo droplets to evaporation and wind.

Swath Adjustment

When applications are made with a cross wind, the swath will be displaced downwind. Therefore, on the up
and down edges of the field, the applicator must compensate for this displacement by adjusting the path of the
aircraft junyind.

Wind

 Drift potential is lowest between 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.

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

Temperature and Humidity

To compensate for evaporation when applying Zoro in low relative humidity, set up equipment to produce larger droplets. Evaporation of droplets is most severe when conditions are both hot and dry.

Temperature Inversions

Zoro must not be applied during a temperature inversion because the potential for drift is high. Temperature inversions restrict vertical air mixing, and this causes small, suspended droplets to remain in a concetrated cloud. This cloud can move in unpredicatable directions due to the light variable winds that are common during inversions. Temperature inversions are characterized by temperatures that increase with altitude and are common on nights with limited cloud cover and light to no wind. Inversions begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog, however, if fog is not present, the movement of smoke from a ground source or an aircraft smoke generator can also identify inversions. Smoke that layers and moves laterally in a concentrated cloud (under lowwind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates, indicates good vertical air mixino.

Resistance Management

ZORO is a Group 6 insecticide (contains the active ingredient abamectin). Because of the inherent risks of pests developing resistance to any product, it is strongly advised that **ZORO** be used in a sound resistance management program. Treatment may not be effective against labeled pests if insect or mite-tolerant strains develop. When applying **ZORO** to plants that are hosts of labeled pests with multiple generations per crop per year, use resistance management practices.

Resistance management practices may include, but are not limited to:

- rotating **ZORO** with other products with different modes of action.
- avoiding treatment of successive generations with ZORO.
- using labeled rates at the specified spray intervals.
- using non-chemical alternatives such as beneficial arthropods.
- rotating susceptible to non-susceptible plants, and
- using various cultural practices

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

CROP USE DIRECTIONS:

Apples

For control of European red mite, McDaniel spider mite, Tentiform leafminer, Twospotted spider mite, and White apple leafhopper

ZORO may be applied using conventional dilute or concentrate ground application sprayers calibrated to deliver sufficient water for thorough coverage. Gallons of spray will vary with size and number of trees per acre and density of foliage. Thorough coverage is essential for good spider mite and insect control.

NOTE:

- For best results, apply in combination with horticulture spray oil (not a dormant oil) as directed. Applications without horticultural spray oil may result in reduced efficacy and/or residual control.
- When used alone or when other products are applied sequentially, ZORO in combination with horticultural spray oil may injure the fruit of certain apple varieties (e.g. russetting on light-skinned varieties such as Golden Delicious).
- When using ZORO plus horticultural spray oil, carefully follow the Directions for Use and Precautions section on the horticultural spray oil label, as well as, the precautions in official spray guides or on product labels. For example, applying ZORO plus horticultural spray oil fewer than 14 days before or after applying abamectin can result in phytotoxicity and crop loss.

Pest	For	For	Instructions
	Dilute Sprays ^a fl. oz./ 100 gals.	Concentrate Sprays ^b fl. oz./acre	
European red mite McDaniel spider mite Tentiform leafminer Twospotted spider mite White apple leafhopper	2.5-5.0	10-20	Apply ZORO when spider mite or insect thresholds are reached. A second application may be made if needed to maintain control. (See Use Restrictions) Spider Mites: For best results, apply before a threshold of 5 spider mites per leaf is reached. Residual spider mite control with ZORO in combination with horticultural spray oil (not a dormant oil) is greater from spray deposits on newer leaves compared to older. Applications of ZORO for spider mite control should be limited to a period extending from petal fall through 6 weeks following petal fall. Tentiform leafminer: For best results, apply onto eggs (to ontrol new hatch) and early sap feeder
Horticultural Spray Oil (not a dormant oil)	0.25% or 1 gal./acre	Minimum of 1 gal./acre	stages of first and second-generation tentiform leafminers when locally established thresholds have been reached. Do not apply during bloom. White Apple Leafhopper (Not for use west of the Rocky Mountains): Application of ZORO is limited only to first generation white apple leafhoppers. Apply soon after petal fall in combination with horticultural spray oil (not a dormant oil).

^aThe rate of **Z0R0** per 100 gals. is based on a volume of 400 gals./acre dilute spray.

*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/acre in concentrate sprays as would be required for the dilute sprays to the same orchard/grove. This may result in use of less than 10 fl. oz/acre on small trees.

Use Restrictions - Apples

- . PHI: Do not apply within 28 days of harvest.
- Application Method: Ground application only. Do not apply with aircraft.
- Amount of Water: Do not apply in less than 40 gals, of water/acre.
- Maximum Amount per Application: Do not apply more than 20 fl. oz. (or 0.023 lb. ai/acre) of ZORO per
 application or any other applied product containing abamectin applied to foliage
- Application Interval: If a second application is necessary, wait at least 21 days before repeating application.
- Number of Applications: Do not make more than 2 applications per growing season of ZORO or any other
 product containing abamectin aplied to foliage
- Maximum Amount per Season: Do not apply more than 40 fl. oz./acre (or 0.047 lb. ai/acre) of ZORO in a
 orowing season of Zoro or any other product containing abamectin applied to foliage
- Grazing: Do not allow livestock to graze in treated orchards.

Avocados

For Control of Avocado thrips

NOTE: ZORO may be applied using ground application equipment or aircraft. Aerial application is permitted because of its importance to the avocado growing industry. However, aerial application is not the preferred method of application for the best control of thrips. With aerial application, spray coverage and the resulting control of thrips is less than with ground application. For this reason, the user accepts all liability for the level and duration of control of thrips when ZORO is aerially applied.

Gallonage of spray will vary with size and number of trees per acre and density of foliage. In every case, thorough coverage is essential for good mite and insect control.

Pest	fl. oz./A	Instructions
Avocado Thrips (Scirtothirps perseae)	10.0 – 20.0 Do not use less than 10 fl. oz. of product/A	For best results, apply when immature thrips are first observed but before numbers exceed 5 immature thrips per leaf/fruit. Use 10-15 fl. oz. of product/A for low't o moderate* infestations and 15-20 fl. oz. of product/A for severe* infestations. Add a 1.0% - 4.0% of a horticultural spray oil (not a dormant oil) approved for use on avocados. Make a second application, if needed, to maintain control, but wait at least 30 days after the first application to retreat. (See Use Restrictions.) For Ground Application: If spray volume is greater than 400 gals/A apply Z0R0 at a rate of 2.5 fl. oz. per 100 gals. of water plus 1.0% - 4.0% of a horticultural spray oil (not a dormant oil) approved for use on avocados. NOTE: To prevent crop injury, observe all precautions and restrictions on the oil label. When using oil concentrations above 2% treat a small test area before making a large-scale application.

*Thrips Infestation Level	Number of immature thrips per leaf/fruit
Low	1-2
Moderate	3-4
Severe	More than 5

Use Restrictions - Avocados

- PHI: Do not apply within 14 days of harvest.
- Application Method: Ground and aerial application permitted.
- Amount of Water: Do not apply in less than 100 gals. of water with ground equipment or 50 gals. of water with aircraft
- Maximum Amount Per Application: Do not apply more than 20 fl. oz./acre (or 0.023 lb. ai/acre) per application
 of Zoro or any other product containing abamectin applied to foliage.
- Application Interval: Wait at least 30 days before repeating application.
- Number of Applications: Do not make more than 2 applications per season of Zoro or any other product
 containing abamectin applied to foliage.
- Maximum Amount Per Season: Do not apply more than 40 fl. oz./acre (or 0.047 lb. ai/acre) per season of Zoro
 or any other product containing abamectin applied to foliage.
- Grazing: Do not allow livestock to graze in treated orchards.

Celeriac (Apium graveollens)

For control of Twospotted spider mite

ZORO may be applied using conventional dilute or concentrate sprayers. Thorough coverage of the crop canopy is essential for optimum results. Inadequate crop coverage may result in reduced control. Calibrate sprayer to deliver sufficient water for thorough coverage of the foliage.

Celeriac

Pest	fl. oz./A	Instructions
Twospotted spider mite	16.0	For best results, use in combination with a non-ionic surfactant. Apply when mites first appear and repeat as necessary to maintain control. (See Use Restrictions.)

Use Restrictions - Celeriac

- . PHI: Do not apply within 7 days of harvest.
- Application Method: Apply with ground application equipment.
- Amount of water: Do not apply in less than 20 gals. of water/acre.
- · Application Interval: Wait at least 7 days before repeating application.
- **Number of Applications:** For resistance management, do not make more than 2 sequential applications of Zoro or any other product containing abamectin applied to foliage.
- Maximum Amount per Season: Do not apply more than 48 fl. oz./acre after transplanting of Zoro or any other
 product containing abamectin applied to foliage.

Citrus Fruit Crop Group (Crop Group 10)

Crops in this group are: Calamondin, Citrus citron, Citrus hybrids, Citrus species (includes chironja, tangelo, tangor), Grapefruit, Kumquat, Lemon, Lime, Mandarin (tangerine), Sour orange, Sweet orange, Pummelo, and Satsuma mandarin.

For control of Asian citrus psylla, Broad mite, Citrus bud mite, Citrus leafminer, Citrus rust mite, Citrus thrips, and Twospotted spider mite

Apply using conventional dilute or concentrate ground application sprayers calibrated to deliver sufficient water for thorough coverage (or outside coverage for Asian citrus psylla, citrus leafminer, or citrus thrips). In every case, thorough coverage is essential for good mite and insect control.

Aerial Application is permitted only for control of Citrus Leafminer. Aerial application is prohibited in California. Citrus Fruit Crop Group

Pest	For Dilute Sprays ^a fl. oz./100 gals.	For Concentrate Sprays ^b fl. oz./acre	Instructions
Asian citrus psyllid	-	10-20°	Applications should be made with a minimum of 0.20% horticultural spray oil (not a dormant oil) in the spray mixture or
Broad mite	1.0-2.0	10-20°	not less than 1.0 gal. of oil/acre (except when specified differently below).
Citrus bud mite	1.0-2.0	10-20 ^d	Asian Citrus Psyllid: Apply to protect newly expanding foliage flush during the spring, summer or fall. ZORO will only
Citrus rust mite	0.5-2.0	5-20°	control adults and nymphs present at the time of application. Mites: Apply when mites first appear during spring, summer, and/or fall. Citrus Bud Mite: For best results, time the spray at "bud swell". Citrus Leafminer: Apply to protect new growth during spring, summer, or fall.
Twospotted spider mite	1.0-2.0	10-20	
Citrus leafminer	-	5-20⁵	
Citrus thrips	-	10-20°	Citrus Thrips: Application targeted for citrus thrips will only control the current generation and must be correctly timed. Apply when economic thresholds have been reached (after egg hatch has begun preferably early to mid-hatch).

^aThe rate of **ZORO** per 100 gals. is based on a volume of 1,000 gals./acre dilute spray.

eFor best results, use 100-250 gals./acre of spray mix applied to achieve outside coverage.

Use Restrictions - Citrus Fruit Crop Group

- . PHI: Do not apply within 7 days of harvest.
- Application Method: For Control of Citrus Leafminer

Ground or aerial application is permitted. (Do not apply with aircraft to citrus in California.) For aerial application use a minimum of 10 gallions of finished spray volume per acre. Under conditions such as high pest populations, dense foliage, or adverse application conditions (such as high temperatures) a greater volume of water must be used to insure adequate coverage.

- Application Method All other pests: Ground application only. Do not apply with aircraft.
- Prohibited Use: To manage resistance do not use in citrus nurseries.
- Application Interval: Do not apply ZORO, or any other abamectin containing product within 30 days of the last treatment.
- Maximum Amount per Season: Do not apply more than 40 fl. oz./acre (0.047 lb a.i./acre) of ZORO or any other abamectin containing product, in any growing season. Do not make more than 3 applications of ZORO or any other abamectin containing product in any growing season.
- Grazing: Do not allow livestock to graze in treated orchards.

For concentrate sprays, adjust the dosage to apply an amount/acre equal to that used in full cover dilute spray. "Ground Application: For best results, use 150-300 gals./acre of spray mix with a minimum of 3 gal./acre of horticultural oil (not a dormant oil) and apply at a ground speed of 1 to 1.5 MPH.

⁴For best results, use a minimum of 500 gals/acre of spray mix with a minimum of 0.5% of finished spray horticultural oil (not a dormant oil).

COTTON

For control of spider mites.

Mix with water as indicated below. Thorough coverage of the crop is essential for optimum results. Inadequate coverage may result in reduced control. For best control and coverage apply ZORO with ground application equipment.

Fl. oz./acre	Instructions
4-6 (Early Season Cotton –	Apply when mites first appear. The use rate depends on the size of the plant and density of the foliage. Repeat application if needed to maintain control. See Use Restrictions below.
See Instructions)	The lower use rates of 4-6 fl. oz./acre are only recommended if cotton is early season and under 10 inches in height. Do not use less than 4 fl. oz./acre.
	West of the Rocky Mountains – the lower use rates may only be used on cotton less than 10 inches in height and applied only with ground equipment.
	Note: ZORO may be used without a wetting agent. Spreading and penetrating surfactants can improve mite control. When necessary to improve the wetting of foliage and to smooth out spray deposits, a nonionic surfactant is recommended. Do not use binder or sticker type surfactants.
	4-6 (Early Season Cotton – See Instructions)

Use Restrictions

- . PHI: Do not apply within 20 days of harvest.
- Application Method: Ground or aerial application is permitted.
- Minimum Amount of Water: Do not apply in fewer than 5 gallons of water per acre. Use sufficient volume to insure thorough coverage.
- Maximum Amount per Application: Do not apply more than 16 fl. oz./A (or 0.019 lb a.i./acre) per application
 of Zoro or any other product containing abamectin applied to foliage.
- Application Interval: Wait at least 21 days before repeating application of Zoro or any other product containing abamectin applied to foliage.
- Maximum Amount per Season: Do not apply more than 32 fl. oz./acre (or 0.038 lb.a.i./acre per season of Zoro
 or any other product containing abamectin applied to foliage.
- Grazing Restriction: Do not feed or allow livestock to graze treated cotton.

Cucurbit Vegetables Crop Group (Crop Group 9)

Crops in this group are: Chayote, Chinese waxgourd, Citron Melon, Cucumber, Gherkin, Edible Gourd (includes hyotan, cucuzza, hechima, Chinese okra); Momordica spp. (includes balsam apple, balsam pear, bittermelon, Chinese ocucumber); Muskmelon (includes hybrids and/or cultivars of Cucumis melo, true cantaloupe, casaba, Crenshaw melon, golden pershaw melon, honeydew melon, honeyballs, mangomelon, Persian melon, pineapple melon, Santa Claus melon, and snake melon) Pumpkin, Summer Squash (includescrookneck squash, scallop squash, straightneck squash, vegetable marrow, zucchini), Winter Squash (includes butternut squash, calabaza, hubbard squash, acom squash, spaghetti squash); Watermelon (includes hybrids and/or varieties of Citrullus lanatus).

For Control of Spider Mites and Leafminers

Mix with water as indicated below. Thorough coverage of the crop canopy is essential for best results. Inadequate coverage may result in reduced control.

Note: ZORO may be applied with ground application equipment or aircraft. For best control of mites, apply ZORO with ground application equipment. With aerial application, spray coverage and the resulting control of mites is less than with ground application. For this reason, the user accepts all liability for the level and duration of control of mites when ZORO is aerially applied.

Cucurbits Crop Group

Pest	fl. oz./acre	Instructions
Leafminers Spider mites	8.0-16.0	Use 8-12 fl. oz./acre for low to moderate infestations and 16 fl. oz./acre for severe infestations.
		 Apply when adult leafminer flies or spider mites are first observed. Repeat applications as needed to maintain control within constraints of a sound resistance management program. (See Use Restrictions).

Use Restrictions - Cucurbit Vegetables Crop Group

- PHI: Do not apply within 7 days of harvest.
- Application Method: Ground or aerial application is permitted; however, do not apply with aircraft in New York State.
- Amount of Water: Do not apply in less than 20 gals. of water/A with ground application equipment. Do not
 apply in less than 5 gals. of water/A with aircraft. Under conditions such as high pest populations, dense foliage,
 or adverse application conditions (such as high temperatures) use a greater volume of water to insure adequate
 coverage.
- Maximum Amount per Application: Do not apply more than 16 fl. oz./acre (or 0.019 lb.a.i..acre) of Zoro or any
 other product containing abamectin applied to foliage.
- Application Interval: Wait at least 7 days before repeating application.
- Number of Applications: Do not make more than 2 sequential applications of Zoro or any other product
 containing abamectin applied to foliage.
- Maximum Amount Per Season: Do not apply more than 48 fl. oz/acre (or 0.056 lb. a.i./acre) in a growing season of Zoro or any other foliarly applied product containing abamectin.

Fruiting Vegetables (except cucurbits) Crop Group (Crop Group 8)

Crops in this group are: Tomato; Eggplant; Groundcherry, Pepino, peppers (includes bell pepper, chili pepper, cooking pepper, pimento, sweet pepper); Tomatillo.

For control of Broad mite, Colorado potato beetle, *Liriomyza* leafminers, Spider mites, *Thrips palmi*, Tomato pinworm..Tomato psyllid and Tomato russet mite

Mix with water as indicated below. Thorough coverage of the crop canopy is essential for best results. Inadequate coverage may result in reduced control.

Note: ZORO may be applied with ground application equipment or aircraft. For best control of mites, apply ZORO with ground application equipment. With aerial application, spray coverage and the resulting control of mites is less than with ground application. For this reason, the user accepts all liability for the level and duration of control of mites when ZORO is aerially applied.

Fruiting Vegetables Crop Group

Pest	fl. oz./acre	Instructions
Broad mite Colorado potato beetle Liriomyza leafminers Spider mites Thrips palmi Tomato psyllid Tomato Russet mite Potato psyllid (in CA)*	8.0-16.0	Broad, Russet, and spider mites: Apply when mites first appear. Thrips palmi: Apply when thrips are first observed. Tomato pinworm: Application may be made from the time moth activity is detected up to, but no later than, the time when newly emerged larvae are present. Potato psyllid: for low to moderate infestations use 8-12 fluid ounces. 16 fluid ounces per acre for heavy infestations.
Tomato pinworm	16.0	Sequential applications 10-14 days apart may be needed for infestations with heavy egg and nymph populations. • Mites, leafminers, <i>Thrips palmi</i> , and Colorado potato beetle: Use 8 fl. oz/acre for low to moderate infestations and 16 fl. oz/acre for severe infestations. • Repeat application as necessary to maintain control. (See Use Restrictions). Note: ZORO may be used without a wetting agent. Spreading and penetrating surfactants can improve insect control. When necessary to improve the wetting of foliage and to smooth out spray deposits, a nonionic surfactant is recommended. Do not use binder or stickertype surfactants.

^{*} Suppression

Use Restrictions -Fruiting Vegetables Crop Group

- . PHI: Do not apply within 7 days of harvest.
- Application Method: Ground or aerial application permitted; however, do not apply with aircraft in New York State
- Prohibited Use: For resistance management, do not use on fruiting vegetables grown for transplanting.
- Amount of Water: Do not apply in less than 20 gals. of water/acre with ground application equipment. Do not
 apply in less than 5 gals. of water/acre with aircraft. Under conditions such as high pest populations, dense
 foliage, or adverse application conditions (such as high temperatures) use a greater volume of water to insure
 adequate coverage.
- Maximum Amount per Application: Do not apply more than 16 fl. oz./acre (or 0.019 lb a.i./acre) of Zoro or any
 other product containing abamectin applied to foliage.
- Application Interval: Wait at least 7 days before repeating application.
- Maximum Amount per Season: Do not apply more than 48 fl. oz./acre (or 0.056 lb.a.i./Acre) in a growing season.

Grapes

For control of Pacific spider mite, Twospotted spider mite, Willamette spider mite, Variegated leafhopper, Western grape leafhopper, first generation European Grapevine Moth (*Lobesia botrana*), and Western grapeleaf skeletonizer

ZORO may be applied using ground sprayers calibrated to deliver sufficient water for thorough coverage. Thorough coverage is essential for good spider mite and insect control. Do not spray alternate rows. **ZORO** must be applied to both sides of each row for maximum coverage.

ZORO will aid in control of first generation European Grapevine Moth when applied at the rate of 10-16 fl. oz/acre with a non-ionic surfactant using thorough coverage. Make application at or shortly after egg hatch. Application of other products may be required for an acceptable level of control of first generation European Grapevine Moth.

Grapes

Pest	fl. oz./A	Instructions
Pacific spider mite Twospotted spider mite Willamette spider mite Western grapeleaf skeletonizer Western grape leaf-hopper Varigated leafhopper	8.0-16.0 Plus a nonionic surfactant	Use a 8-12 fl. oz./A for low to moderate infestations and 16 fl. oz. for severe infestations. Repeat application, if needed. (See Use Restrictions) Note: ZORO must be applied in combination with a nonionic surfactant to improve wetting of foliage and to smooth out spray deposits. Spreading and penetrating surfactants can improve insect control. Do not use binder or sticker-type surfactants. Although ZORO has been tested in combination with a nonionic surfactant for safety to grapes, it is impossible to test on all grape varieties under the variety of conditions that may cause crop injury. Therefore, when using ZORO in combination with a nonionic surfactant, carefully follow the Directions for Use and Precautions on the nonionic surfactant label and in offical spray guides. Spider mites: Apply when mites first appear but before motiles exceed 5 per leaf. Western grapeleaf skeletonizer: Apply ZORO plus a nonionic surfactant when larvae are first observed. For optimum control, apply shortly after egg hatch. Western grape leaf-hopper and Varigated leafhopper: Apply ZORO plus nonionic surfactant when pest first observed. Provides contact knock-down control only.

*Suppression

Use Restrictions - Grapes

- . PHI: Do not apply within 28 days of harvest.
- Application Method: Ground application only.
- Amount of Water: Do not apply in less than 50 gals. of water/acre with conventional ground application
 equipment.
- When using an electro-static sprayer, less than 50 gals. of water/acre may be used however, do not use less than 5 gals. of water/acre.
- Maximum Amount per Application: Do not apply more than 16 fl. oz./acre (or 0.019 lb. a.i./acre) per application
 of Zoro or any other product containing abamectin applied to foliage.
- Application Interval: If a second application is necessary, wait at least 21 days before repeating application.
- Number of Applications: Do not make more than 2 applications per growing season of Zoro or any other product containing abamectin applied to foliage.
- Maximum Amount per Season: Do not apply more than 32 fl. oz./acre (or 0.038 lb.a.i./acre) in a growing season of Zoro or any other product containing abamectin applied to foliage.
 - Grazing: Do not allow livestock to graze in treated vineyards.

Herb Crop Subgroup (19A) (Except Chives)

Crops in this subgroup are: Angelica, Balm Basil; Borage, Burnet, Camomile; Catnip; Chervil (dried), Clary, Coriander (leaf); Cilantro (leaf), Costmary, Culantro (leaf), Curry (leaf) Dill Weed; Horehound, hyssop, Lavender; lemongrass, lovage (leaf), Marigold; Marjoram (*Diganum* species); Nasturtium; Parsley (dried); pennyroyal, Rosemary; Rue, Sage; Summer and Winter Savory; sweet bay, tansy, Tarragon; Thyme; Wintergreen, woodruff, and wormwood.

For control of Liriomyza leafminers

Mix with water as indicated below. Apply thoroughly with ground application equipment as a foliar spray and ensure good upper and lower leaf coverage.

Herb Crop Subgroup (Except Chives)

Pest	fl. oz./acre	Instructions
Liriomyza leafminers	8.0-16.0	Use 8 fl. oz./acre for low to moderate infestations and 16 fl. oz./acre for severe infestations. Apply when adult flies are first observed and repeat application, as necessary to maintain control. (See Use Restrictions) ZORO may be used without a wetting agent. When necessary to improve the wetting of foliage and to smooth out spray deposits, a nonionic surfactant is recommended. Note: Although ZORO has been tested in combination with a nonionic surfactant for safety to herbs, it is impossible to test on all herb types and varieties under the variety of conditions that may cause crop injury. Therefore, when using ZORO in combination with a nonionic surfactant, carefully follow the Directions for Use and Precautions on the nonionic surfactant label and in official spray guides.

Use Retrictions - Herb Crop Subgroup (Except Chives)

- . PHI: Do not apply within 14 days of harvest.
- Application Method: Apply with ground application equipment.
- Amount of Water: Use a minimum of 20 gals, of water/acre.
- Maximum Amount per Application: Do not apply more than 16 fl.oz./acre (or 0.019 lb. a.i./acre) of Zoro or any
 other foliarly applied product containing abamectin.
- Application Interval: Wait at least 7 days before repeating application.
 - **Number of Applications:** Do not make more than 2 applications per single cutting (harvest) of Zoro or any other product containing abamectin applied to foliage.
- Maximum Amount per Season: Do not apply more than 48 fl oz/acre (or 0.056 lb. a.i./acre) of Zoro or any other abamectin applied to the foliage per cropping season.

Hops (Not approved for use in California)

For control of Twospotted spider mite

Mix with water an indicated below. Apply with ground application equipment as a foliar spray and ensure good upper and lower leaf coverage. Gallons of spray may vary with the size of plants and density of foliage. In every case, thorough coverage is essential for good control of Twospotted spider mite. When using concentrate sprays, the amount of water is reduced, but the amount of ZORO should remain the same as for dilute sprays.

Hops

Pest	fl. oz./acre	Instructions
Twospotted spider mite	8-16.0	Apply ZORO when Twospotted spider mites reach treatment thresholds. For applications at ½ trellis growth (6-8 ft. height) apply 8-16 fl. oz./acre in a minimum of 40 gals. of water/acre. For applications beyond ½ trellis growth, do not use less than 16 fl. oz./acre in a minimum of 100 gals. of water/acre. Note: ZORO may be used without a wetting agent. When necessary to improve the wetting of foliage and to smooth out spray deposits, a nonionic surfactant is recommended.

Use Restrictions - Hops

- PHI: Do not apply within 28 days of harvest.
- Application Method: Ground application only. Do not apply with aircraft.
- Application Interval: If a second application is necessary to maintain control, wait at least 21 days before repeating application and repeat application only after an alternative miticide with a different mode of action has been used.
- Maximum amount per application: Do not apply more than 16 fl.oz./acre (or 0.019 lb.a.i./acre) of Zoro or any
 other product containing abamectin applied to foliage per application.
- Maximum Number of Applications: Do not make more than 2 applications of Zoro or any other product
 containing abamectin applied to foliage per growing season.
- Grazing: Do not allow livestock to graze in treated hops yards.

Leafy Vegetable (except Brassica vegetables) Crop Group (Crop Group 4)

Crops in this group are: Amaranth (leafy amaranth Chinese spinach, tampala), Arugula (Roquette), Cardoon, Celery, Lettuce (head and leaf),,Chervil, Chinese celery, Chrysanthemum, (edible leaved and garland), Corn salad,Cress (Garden, upland yellow rocket and winter), Celtuce, Dandelion, Dock (Sorrel) Endive, Escarol, Florence Fennel, New Zealand spinach, Orach,Parsley, Purslane (garden and winter) Radicchio (red chicory), Rhubarb, Spinach, Vine spinach and Swiss chard.

For Control of Carmine spider mite. Liriomyza leafminers, and Twospotted spider mite

Mix with water as indicated below. Thorough coverage of the crop canopy is essential for best results. Inadequate coverage may result in reduced control.

Note: ZORO may be applied with ground application equipment or aircraft. For best control of mites, apply ZORO with ground application equipment. With aerial application, spray coverage and the resulting control of mites is less than with ground application. For this reason, the user accepts all liability for the level and duration of control of mites when ZORO is aerially applied.

Leafy Vegetable Crop Group

Pest	fl. oz./acre	Instructions
Carmine spider mite Liriomyza leafminers Twospotted spider mite	8.0-16.0 Plus a nonionic surfactant	Use 8-12 fl. oz/acre for low to moderate infestations and 16 fl. oz/acre for severe infestations. Spider mites: Apply when mites first appear, and repeat as needed to maintain control. (See Use Restrictions) Leafminers: Apply when adult flies are first observed and repeat applications as needed to maintain control. (See Use Restrictions) Note: 2080 may be used without a wetting agent. Spreading and penetrating surfactants can improve insect control. When necessary to improve the wetting of foliage and to smooth out spray deposits, a nonionic surfactant is recommended. Do not use binder or sticker-type surfactants.

Use Restrictions - Leafy Vegetable Crop Group

- . PHI: Do not apply within 7 days of harvest.
- Application Method: Ground or aerial application permitted (exception: do not apply with aircraft in New York State).
- · Prohibited Use: For resistance management, do not use on leafy vegetables grown for transplanting.
- Amount of Water: Do not apply in less than 20 gals. of water/acre with ground application equipment. Do not
 apply in less than 5 gals. of water per acre with aircraft. Under conditions such as high pest populations, dense
 foliage, or adverse application conditions (such as high temperatures) use a greater volume of water to insure
 adequate coverage.
- Maximum Amount per Application: Do not apply more than 16 fl. oz/acre (or 0.019lb. a.i./acre) of Zoro or any
 other product containing abamectin applied to foliage.
- Application Interval: Wait at least 7 days before repeating application.
- Number of applications: Do not make more than 2 sequential applications of Zoro or any other product containing abamectin applied to foliage
- Maximum Amount per Season: Do not apply more than 48 fl. oz./acre (or 0.056 lb. a.i./acre) per growing season of Zoro or any other product containing abamectin applied to foliage

Mint (peppermint and spearmint)

For control of Twospotted spider mite

Mix with water as indicated below. Thorough coverage of the crop canopy is essential for best results. Inadequate coverage may result in reduced control.

Mint

Pest	fl. oz./acre	Instructions	
Twospotted spider mite		Treat when mites first appear. For optimum control, a nonionic surfactant or organosilicone-based Treat when mites first appear.	
		surfactant should be used at the manufacturer's recommended rate.	

Use Restrictions - Mint

- PHI: Do not apply within 28 days of harvest.
- Application Method: Ground or aerial application permitted (exception:do not apply with aircraft in New York State).
- Amount of Water: Do not apply in less than 20 gals, of water/acre with ground application equipment. Do not
 apply in less than 5 gals, of water/acre with aircraft. Under conditions such as high pest populations, dense
 foliage, or adverse application conditions such as high temperatures, use a greater volume of water to insure
 adequate coverage.
- Maximum Amount per Application: Do not apply more than 12 fl. oz./acre (or 0.014 lb. a.i./Acre) per
 application of Zoro or any other product containing abamectin applied to foliage.
 - Application Interval: Wait at least 7 days before repeating application.
- Number of Applications: Do not make more than 2 sequential applications and do not apply more than 3
 applications per season of Zoro or any other product containing abamectin applied to foliage.
- Maximum Amount per Season: Do not apply more than 36 fl. oz./acre (or 0.042 lb. a.i./acre) per crop per season of Zoro or any other product containing abamectin applied to foliage.
- Grazing: Do not allow livestock to graze or feed treated foliage to livestock.

Pears (including Oriental pear trees)

For control of European red mite, McDaniel spider mite, Pear psylla, Pear rust mite, Twospotted spider mite, and Yellow mite

ZORO may be applied using conventional dilute or concentrated ground application sprayers calibrated to deliver sufficient water for thorough coverage. Gallons of spray will vary with size and number of trees per acre and density of foliace. In every case, thorough coverage is essential for good solder mite and insect control.

NOTE:

- Apply in combination with horticultural spray oil (not a dormant oil) as directed. Applications without horticultural spray oil may result in reduced efficacy and/or reduced residual control.
- When using ZORO plus horticultural spray oil, carefully follow the Directions for Use and Precautions on
 the horticultural spray oil label. Also follow precautions in official local spray guides or on product labels. For
 example, applying ZORO plus horticultural spray oil in less than 14 days before or after applying Captan can
 result in phytotoxicity and crop loss.

Pears

Pest	For Dilute Sprays ^a fl. oz./100 gals.	For Concentrate Sprays ^b fl. oz./acre	Instructions
European red mite McDaniel spider mite Pear psylla Pear rust mite Twospotted spider mite Yellow mite	2.5-5.0	10-20	Apply ZORO when spider mite or insect thresholds are reached. A second application may be made if needed to maintain control (See Use Restrictions).
Horticultural Spray Oil (not a dormant oil)	0.25% or 1 gal./acre	Minimum of 1 gal./acre	

^aThe rate of **ZORO** per 100 gals. is based on a volume of 400 gals./acre dilute spray.

Use Restrictions - Pears

- . PHI: Do not apply within 28 days of harvest.
- Application Method: Ground application only. Do not apply with aircraft.
- Amount of Water: Do not apply in less than 40 gals. of water/acre.
- Maximum Amount per Application: Do not apply more than 20 fl. oz./A (or 0.023 lb a.i./acre) of ZORO per
 application or any other product that contains abamectin applied to foliage.
- Application Interval: If a second application is necessary, wait at least 21 days before repeating application.
- Number of Applications: Do not make more than 2 applications per growing season of Zoro or any other
 product containing abamectin applied to foliage.
- Maximum Amount per Season: Do not apply more than 40 fl. oz./acre or (0.047 lb. a.i./acre) in a growing season of Zoro or any other product containing abamectin applied to foliage.
- Grazing: Do not allow livestock to graze in treated orchards.

Stone Fruit Crop Group (Crop Group 12)

Crops in this group are: apricot, cherry (sweet and tart), nectarine, peach, plum, plum (chickasaw, damson, and Japanese), plumcot, and prune (fresh)

For control of European spider mite, Pacific spider mite, and Twospotted spider mite

ZORO may be applied using conventional dilute or concentrate sprayers calibrated to deliver sufficient water for thorough coverage. Gallons of spray will vary with size and number of trees per acre and density of foliage. In every case, thorough coverage is essential for good spider mite control.

^{*}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/acre in concentrate sprays as would be required for the dilute sprays to the same orchard/grove. This may result in use of less than 10 fl. oz/acre on small trees.

Stone Fruit Crop Group

Pest	For Dilute Sprays ^a fl. oz./ 100 gals.	For Concentrate Sprays ^b fl. oz./acre	Instructions
European red mite Pacific spider mite Twospotted spider mite	2.5-5.0	10-20	Apply when mites first appear. A second application may be made, if needed, to maintain control. (See Use Restrictions)
Horticultural Spray Oil (not a dormant oil)	0.25% or 1 gal./acre	Minimum of 1 gal./acre	Always apply ZORO in combination with a nonionic surfactant that spreads on and/ or penetrates the leaf cuticle, or apply with horticultural spray oil (not a dormant oil). NOTE: 1) A nonionic surfactant that spreads on and/or
Nonionic Surfactant	Labeled Rate		penetrates the leaf cuticle can improve insect control. Although ZORO has been tested in combination with nonionic surfactants for safety to stone fruit, it is impossible to test on all stone fruit varieties under the variety of conditions that may cause crop injury. Whenever using ZORO in combination with a nonionic surfactant, carefully follow the Directions for Use and Precautions on the surfactant label and in official local spray guides. 2) A horticultural oil (not a dormant oil) may improve efficacy and can be used but it may increase the possibility of phytotoxicity to foliage and fruit. • Use a minimum of 0.25% horticultural spray oil (not a dormant oil) in the dilute spray mixture and not less than 1.0 gal. of horticultural spray oil per acre in the final finished spray. • Use nonionic surfactants at the manufacturer's recommended rate.

^aThe rate of **ZORO** per 100 gals. is based on a volume of 400 gals./acre dilute spray.

Use Restrictions - Stone Fruit Crop Group

- . PHI: Do not apply within 21 days of harvest.
- Application Method: Ground application only. Do not apply with aircraft.
- Amount of Water: Do not apply in less than 40 gals. of water/acre.
- Maximum Amount Per Application: Do not apply more than 20 fl. oz./acre (or 0.023 lb a.i./acre) per application
 of Zoro or any other product containing abamectin applied to foliage.
- Application Interval: If a second application is needed, wait at least 21 days before repeating application.
- Number of Applications: Do not make more than 2 applications per growing season of Zoro or any other
 product containing abamectin applied to foliage.
- Maximum Amount per Season: Do not apply more than 40 fl. oz./acre (or 0.047 lb.a.i./acre) in a growing season of Zoro or any other product containing abamectin applied to foliage.
- Grazing: Do not allow livestock to graze in treated orchards.

^{*}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 per acre in concentrate sprays as would be required for the dilute sprays to the same orchard/grove. This may result in use of less than 10 ft. oz/acre on small trees.

Strawherries

For control of Strawberry spider mite and Twospotted spider mite

Mix with water as indicated below. Apply with ground application equipment as a foliar spray and insure thorough coverage on upper and lower leaf surfaces. Adjust spray volume and nozzle placement to insure maximum coverage of toos and undersides of leaves.

Strawherries

Pest	fl. oz./acre	Instructions
Strawberry spider mite Twospotted spider mite Carmine mites* Cyclamen mites* Aphids* Thrips* Whiteflies*	16.0	Make 2 applications 7-10 days apart when mites first appear. Repeat this application sequence, if needed, to maintain control. (See Use Restrictions) Note: ZORO may be used without a wetting agent. When necessary to improve the wetting of foliage and to smooth out spray deposits, a nonionic surfactant is recommended. Good coverage into the crown of the plant will enhance the results of ZORO application for Cyclamen mites. The addition of surfactant will also aid in suppression of all these pests.

^{*}suppression

Use Restrictions - Strawberries

- PHI: Do not apply within 3 days of harvest.
- Application Method: Ground application only. Do not apply with aircraft.
- · Prohibited Use: For resistance management purposes, do not use in strawberry nurseries.
- Amount of Water: Do not apply in less than 50 gals. of water/acre with conventional ground application
 equipment. When using electro-static sprayers do not apply in less than 10 gallons of water/A.
- Maximum Amount per Application: Do not apply more than 16 fl. oz./acre (or 0.019 lb a.i./acre) per application
 of Zoro or any other product containing abamectin applied to foliage.
- Application Interval: Wait at least 21 days after the second application before repeating application.
- Maximum Amount per Season: Do not apply more than 64 fl. oz./acre (or 0.075 lb a.i./acre) in a growing season of Zoro or any other product containing abamectin applied to foliage.

Tree Nuts Crop Group (Crop Group 14) and Pistachio

Crops in this group are Almond, Beech nut, Brazil nut, Butternut, Cashew, Chestnut, Chinquapin, Filbert (hazlenut), Hickory nut. Macadamia nut. Pecan. and Walnuts (black and English)

For control of European red mite, Pacific spider mite, Strawberry spider mite, and Twospotted spider mite.

Zoro may be applied using conventional dilute or concentrate sprayers calibrated to deliver sufficient water for thorough coverage. Gallons of spray will vary with size and number of trees per acre and density of foliage. In every case, thorough coverage is essential for good spider mite and insect control.

Tree Nuts Crop Group and Pistachio

Pest	For Dilute Sprays ^a fl. oz./ 100 gals.	For Concentrate Sprays ^b fl. oz./acre	Instructions
European red mite Pacific spider mite Strawberry Spider mite Twospotted spider mite	2.5-5.0	10-20	Always apply Z0R0 in combination with a horticultural spray oil (not a dormant oil) approved for use on tree nuts. Apply Z0R0 when spider mites first appear. Residual spider mite control is greater from
Horticultural Spray Oil (not a dormant oil)	0.25% or 1 gal./acre	Minimum of 1 gal./acre	spray deposits on newer leaves compared to older leaves.
		-	If needed, a second application may be made, to maintain control (See Use Restrictions).

^aThe rate of **ZORO** per 100 gals. is based on a volume of 400 gals./A dilute spray.

Use Restrictions - Tree Nuts Crop Group (Crop Group 14) and Pistachio

- . PHI: Do not apply within 21 days of harvest.
- Application Method: Ground application only. Do not apply with aircraft.
- Amount of Water: Do not apply in less than 40 gals, of water/acre.
 - Application Interval: If a second application is necessary, wait at least 21 days before repeating application.
- Maximum Amount per Application: Do not apply more than 20 fl oz./acre (or 0.023 lb a.i./acre) of ZORO or any
 other product containing abamectin applied to foliage per application.
- Applications per season: Do not make more than 2 applications of ZORO or any other product containing abamectin applied to foliage per growing season.
- Maximum Amount per Season: Do not apply more than 40 fl. oz./acre (or 0.0478 lb. a.i./acre) of ZORO or any
 other product containing abamectin applied to foliage in a growing season.
- Grazing: Do not allow livestock to graze in treated groves/orchards.

Tuberous and Corm Vegetatbles Crop Subgroup (Crop Subgroup 1C)

Crops in this subgroup are Arracacha, Arrowroot, Artichoke, Chinese artichoke, Jerusalem canna, Edible, Cassava (bitter and sweet), Chayote (root), Chufa, Dasheen, Ginger, Leren, Potato, Sweet potato, Tanier, Turmeric. Yam bean. Yam (true)

For control of Colorado potato beetle, *Liriomyza* leafminers, Potato *psyllid*, and Spider mites (European, Pacific, and Twospotted)

Mix with water as indicated below. Thorough coverage of the crop canopy is essential for best results. Inadequate coverage may result in reduced control.

Note: ZORO may be applied using ground application equipment or aircraft. For best control of mites, apply ZORO with ground application equipment. With aerial application, spray coverage and the resulting control of mites is less than with ground application. For this reason, the user accepts all liability for the level and duration of control of mites when ZORO is aerially applied.

^{*}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 per acre in concentrate sprays as would be required for the dilute sprays to the same orchard/grove. This may result in use of less than 10 fl. oz/acre on small trees.

Tuberous and Corm Vegetables Crop Subgroup (Crop Subgroup 1C)

Pest	fl. oz./acre	Instructions
Colorado potato beetle Liriomyza leafminers Potato psyllid Spider mites	8.0-16.0	Use 8-12 fl. oz./acre for low to moderate infestations and 16 fl. oz/acre for severe infestations. The addition of a nonionic surfactant or organosilicone-based surfactant, at the manufacturer's recommended rate, is suggested for best spider mite and insect control. Insect and spider mite control may be reduced if ZORO is used in combination with a sticker or binder type product such as Bravo® Weather Stik®. Colorado potato beetle: Make the first application after approximately 50% of the egg masses have hatched and larvae are present. If 2 applications are needed, limit them to a single Colorado potato beetle generation per crop. Do not make more than 2 applications per crop (See Use Restrictions) Liriomyza leafminers: Make the first application when adult flies are first observed. Repeat applications as needed to maintain control. (See Use Restrictions) Spider mites: Make the first application when mites first appear. Repeat application as needed to maintain control. (See Use Restrictions)

Use Restrictions - Tuberous and Corm Vegetables (Crop Subgroup 1C)

- . PHI: Do not apply within 14 days of harvest.
- Application Method: Ground or aerial application permitted (exception: do not apply with aircraft in New York State).
- Amount of Water: Do not apply in less than 20 gals. of water/acre with ground application equipment. Do not
 apply in less than 5 gals, of water/acre with aircraft. Under conditions such as high pest populations, dense
 foliage, or adverse application conditions (such as high temperatures) use a greater volume of water to insure
 adequate coverage.
- Maximum Amount per Application: Do not apply more than 16 fl oz./acre (or 0.019 lb a.i./acre) per application.
- Application Interval: Wait at least 7 days before repeating application.
- Number of Applications: Do not make more than 2 sequential applications or ZORO or any other foliarly applied abamectin containing product.
- Maximum Amount per Crop: Do not apply more than 32 fl. oz/acre (or 0.038.lb a.i/acre) per crop for spider mite or Colorado potato beetle control. Do not apply more than 48 fl. oz/acre (or 0.056 lb.a.i/acre) per crop for leafminer control.
- Grazing: Do not allow livestock to graze or feed treated foliage to livestock.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container.

Pesticide Storage

Store in a tightly closed container in a cool, dry place.

Pesticide Disposal

Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

Container Disposal

Nonrefillable containers 5 gallons or less:

Do not reuse or refill this container. 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.

Nonrefillable containers greater than 5 gallons:

Do not reuse or refill this container. Offer for recycling if available. Triple rinse container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank and store rinsate for later use or disposal. Repeat this procedure two more times.

IMPORTANT: READ BEFORE USE

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of liability before using this product.

If terms are not acceptable, return the unopened product container at once. By using this product, user or buyer accepts the following warranty disclaimer, inherent risks of use and limitation of remedies.

WARRANTY DISCLAIMER

Cheminova warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, CHEMINOVA MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY

INHERENT RISKS OF LISE

It is impossible to eliminate all risks associated with use of this product. Crop injury, lack of performance, or other unintended consequences may result because of such factors as use of the product contrary to label instructions (including conditions noted on the label, such as unfavorable temperatures, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of Cheminova or the seller. All such risks shall be assumed by the Buyer.

LIMITATION OF REMEDIES

To the extent consistent with applicable law, the exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability, or other legal theories), shall be limited to, at Cheminova's election, one of the following:

- 1) Refund of purchase price paid by buyer or user for product bought, or
- 2) Replacement of amount of product used.

Cheminova shall not be liable for losses or damages resulting from handling or use of this product unless Cheminova is promptly notified of such loss or damage in writing. In no case shall Cheminova be liable for consequential or incidental damages or losses. The terms of the Warranty Disclaimer above and this Limitation of Remedies cannot be varied by any written or verbal statements or agreements. No employee or sales agent of Cheminova or the seller is authorized to vary or exceed the terms of the Warranty Disclaimer or this Limitation of Remedies in any manner.

Trademarks:

ZORO is a registered trademark of Cheminova A/S
Bravo and Weather Stik are registered trademarks of a Syngenta Group Company
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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 applicators certification.

GROUP

INSECTICIDE

MITICIDE/INSECTICIDE

ACTIVE INGREDIENT:

OTHER INGREDIENTS: 98.1% TOTAL: 100.0%

*1 gal. contains 0.15 lb. abamectin

KEEP OUT OF REACH OF CHILDREN WARNING / AVISO

Si usted no entiende la etiqueta, busque a alquien 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.)

IN CASE OF MEDICAL EMERGENCY INVOLVING THIS PRODUCT, CALL TOLL FREE, DAY OR NIGHT 1-866-303-6950

See additional precautionary statements directions for use in booklet. Notice: Read the entire Directions for Use and Conditions of Sale and Elmitation 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.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS WARNING/AVISO

Causes substantial but temporary eve injury. Do not get in eyes, Harmful if absorbed through skin or if, swallowed. Avoid contact with skin or clothing. 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

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

Applicators and other handlers must wear:

- Coveralls worn over short-sleeved shirt and short pants
- Chemical resistant gloves EPA chemical resistance category E (e.g., barrier laminate or butvl rubber ≥ 14 mils)
- Chemical-resistant footwear plus socks
- Protective evewear
- 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 no 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.

FIRST AID - IF IN EYES:-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 SWALLOWED: -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. IF ON SKIN OR CLOTHING:-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:-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. Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-866-303-6950 for emergency medical treatment information

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-866-303-6950 for emergency medical treatment information

NOTE TO PHYSICIAN

Early signs of intoxication include dilation of pupils, muscular incoordination, and muscular 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 parental 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.

NFT CONTENTS: 1 Gallon

EPA Reg. No. 67760-71 EPA Est. No. DNK-4787-001

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Manufactured For: Cheminova, Inc. One Park Drive Suite 150 P.O. Box 110566 Research Triangle Park, NC 27709

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