34704-923

11/29/2011



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

> OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

11/29/2011

Premjit Halarnkar Loveland Products, Inc. PO Box 1286 Greeley, CO 80632-1286

re: Reaper 0.15EC, EPA Reg. # 34704-923 label amendment submitted 11/29/2011 (D# 458117) two minor corrections in DFU accepted

Dear Mr. Halarnkar:

This submission makes two minor corrections (maximum product/season on celeriac, adjuvant in tuberous vegetables) on the recently accepted amendment to add stone fruit, tree nuts, et al. The labeling submitted in connection with the registration referenced above under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is ACCEPTABLE.

Submit one copy of your final printed labeling prior to releasing your product for shipment. If the above provisions 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 bearing the amended labeling constitutes acceptance of these conditions.

A copy of the label stamped "accepted" is enclosed for your records. If you have any questions please contact Tom Harris at (703) 308-9423 or harris.thomas@epa.gov

Yours truly,

2 Caple for

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

enclosure

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



TOTAL	100.0%

*1 gallon contains 0.15 pound abamectin

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 additional precautionary statements and directions for use in booklet.

		FIRST AID		
If swallowed:	Call poison control center or doc	tor 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 t	o an unconscious person.		
If in eyes:		and gently with water for 15 to 20 minutes.		
		nt, after the first 5 minutes, then continue rinsing the second	ng eye.	
lf on okin	Call a poison control center or de Take off contaminated clothing.	octor for treatment advice.		
lf on skin or clothing:	 Rinse skin immediately with plen 	the of water for 15 to 20 minutes		
or clouning.	Call a poison control center or de			
If inhaled:	Move person to fresh air.	deter for treatment advice.		
n maicu.		11 or an ambulance, then give artificial respirat	tion, preferably by mouth-to-mouth	
	possible.	gire an anna anna gire anna an ar pha	, p.o.o.u.o,,ou	
	· Call a poison control center or de	octor for further treatment advice.		
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PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS WARNING—AVISO

May be fatal if swallowed. Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Harmful if inhaled or absorbed through the skin. Avoid breathing spray mist. Avoid contact with skin. Prolonged or frequently repeated exposure may cause allergic skin reactions in some individuals.

Personal Protective Equipment (PPE)

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 B (e.g., barrier laminate or butyl rubber ≥ 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, use detergent and hot water. Keep and wash PPE separately from other laundry.

Users should:

USER SAFETY RECOMMENDATIONS

• 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. 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 to your area.

This product may impact surface water quality due to runoff of rain water. This is especially true for poorly 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 features 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 forecast 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 restrictedentry 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 B (e.g., barrier laminate or butyl rubber ≥ 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.

APPLICATION INFORMATION

Reaper® 0.15 EC 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: Reaper 0.15 EC has been tested for phytotoxicity and has a wide margin of safety on a variety of crops. Reaper 0.15 EC 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 Reaper 0.15 EC to ensure the physical compatibility and lack of phytotoxic effects.
- . New York State Restrictions: Do not apply Reaper 0.15 EC with aircraft in New York State.

Chemigation

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

SPRAY DRIFT Responsibility

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment and weather related

factors determine the potential for spray drift. The applicator is responsible for considering all of these factors when making application decisions.

NOTE: When states have more stringent regulations, they must be observed.

Spray Drift Precautions for Application with Aircraft or Ground Application Equipment

- Apply Reaper 0.15 EC only when wind velocity favors on target product deposition (approximately 3 to 10 mph).
- Do not apply with ground application equipment within 25 feet of or with aircraft within 150 feet of lakes, reservoirs, rivers, permanent streams, marshes, pot holes, natural ponds, estuaries, or commercial fish farm ponds.
- Do not cultivate within 25 feet of the aquatic area to allow growth of a vegetative filter strip.
- Do not allow this product to drift onto non-target areas. Drift may result in illegal residues or injury to nontarget species. Risk of exposure to sensitive areas can be reduced by applying this product when the wind direction is away from the sensitive area.
- . Do not apply when the 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.
- Observe the following precautions when using ground application to spray tree crops or hops in the vicinity of aquatic areas such as
 lakes, reservoirs, permanent streams, marshes, potholes, natural ponds, estuaries, or commercial fish ponds:
- Do not apply Reaper 0.15 EC when weather conditions favor drift to aquatic areas
- Do not apply within 110 feet upwind of aquatic areas or when wind speed is above 8 mph.
- Spray last 3 rows windward of aquatic areas using nozzles on one side only, with spray directed away from the aquatic areas.
 Avoid spray going over tops of trees by adjusting or turning off top nozzles. Shut off nozzles on the side away from the
- grove/orchard when spraving the outside row. Shut off nozzles when turning at ends of row and passing tree gaps in rows.

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 3/4 the length of 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, Temperature and Humidity, and Temperature Inversions).

Controlling Droplet Size

Volume - Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets. **Pressure** - Do not exceed the nozzle manufacturer's recommended pressures. For many nozzle types, lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.

Number of Nozzles - Use the minimum number of nozzles that provide uniform coverage.

Nozzle Orientation - Orienting 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 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 low-est drift.

Boom Length

For some use patterns, reducing the effective boom length to less than 3/4 of the wing span or rotor length may further reduce drift without reducing swath width.

Application Height

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

Swath Adjustment

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

Wind

Drift potential is lowest between wind speeds of 2 to10 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 Reaper 0.15 EC 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

Reaper 0.15 EC 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 concentrated cloud. This cloud can move in unpredictable 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 low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates, indicates good vertical air mixing.

Resistance Management

Reaper 0.15 EC 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 Reaper 0.15 EC 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 Reaper 0.15 EC 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 Reaper 0.15 EC with other products with different modes of action,
- · avoiding treatment of successive generations with Reaper 0.15 EC,
- · using labeled rates of the specified spray intervals,
- · using non-chemical alternatives such as beneficial anthropods,
- · 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 Reaper 0.15 EC 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. In any case, thorough coverage is essential for good spider mite and insect control.

Note:

- For best results, 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 residual control.
- When used alone or when other products are applied sequentially, Reaper 0.15 EC in combination with horticultural spray oil may injure the fruit of certain apple varieties (e.g. russeting on light-skinned varieties such as Golden Delicious).
- When using Reaper 0.15 EC plus horticultural spray oil, carefully follow the **Directions for Use** and **Precautions** on the horticultural spray oil label as well as the precautions in official spray guides or on product labels. For example, applying Reaper 0.15 EC plus horticultural spray oil in less than 14 days before or after applying Captan® can result in phytotoxicity and crop loss.

Pest	Dilute Sprays ^a Fl Ozs/100 Gals	Concentrate Sprays ^b FI Ozs/A	Instructions
European red mite McDaniel spider mite Tentiform leafminer Twospotted spider mite White apple leafhopper	2.5 to 5.0	10.0 to 20.0	 Apply Reaper 0.15 EC 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
Horticultural Spray Oil (not a dormant oil)	0.25% or 1.0 gal/A	Minimum of 1.0 gal/A	 spider mites per leaf is reached. Residual spider mite control with Reaper 0.15 EC in combination with horticultural spray oil (not a dormant oil) is greater from spray deposits on newer leaves compared to older. Applications of Reaper 0.15 EC 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 against egg (to control new hatch) and early sap feeder 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 Reaper 0.15 EC is limited only to first generation white apple leafhoppers. Apply soon after petal fall in combination with horticultural spray oil (not a dormant oil).

^a The rate of Reaper 0.15 EC/100 gals is based on a volume of 400 gals/A dilute spray.

^b To determine the amount of product/A for concentrate sprays, first determine the amount that would be required in a full cover dilute spray. Use the same amount of product/A in concentrate sprays as would be required for the dilute sprays to the same orchard/grove. This may result in use of less than 10.0 fl ozs/A on small trees.

Use Restrictions:

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 40.0 gals of water/A.

Maximum Amount/Application: Do not apply more than 20.0 fl ozs/A (or 0.023 lb Al/A) of Reaper 0.15 EC or any other foliarly applied abamectin containing product/application.

Application Interval: If a second application is necessary, wait at least 21 days before repeating application.

Apples cont'd .:

Number of Applications: Do not make more than 2 applications of Reaper 0.15 EC or any other foliarly applied abamectin containing product/growing season.

Maximum Amount/Season: Do not apply more than 40.0 fl ozs/A (or 0.047 lb Al/A) of Reaper 0.15 EC or any other foliarly applied abamectin containing product in a growing season.

Grazing: Do not allow livestock to graze in treated orchards.

AVOCADOS

For control of Avocado thrips

Note: Reaper 0.15 EC 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 Reaper 0.15 EC is aerially applied.

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

Pest	FI Ozs/A	Instructions
Avocado Thrips	10.0 to 20.0	 For best results, apply when immature thrips are first observed but before
(Scirtothrips	Do not use less	numbers exceed 5 immature thrips per leaf/fruit.
perseae)	than 10.0 fl ozs	 Use 10.0 to 15.0 fl ozs of product/A for low* to moderate* infestations and
	of product/A	15.0 to 20.0 fl ozs of product/A for severe* infestations. Add 1.0 to 4.0% of a
Horticultural Oil	Minimum	horticultural spray oil (not a dormant oil) approved for use on avocados.
(not a dormant oil)	1.0 to 4.0% v/v	 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 Reaper 0.15 EC at a rate of 2.5 fl ozs/100 gals of water plus 1.0 to 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 2.0% treat a small test area before
1990 Self-stations		making a large-scale application.

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

Use Restrictions:

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 50.0 gals of water with aircraft.

Application Interval: Wait at least 30 days before repeating application.

Number of Applications: Do not make more than 2 applications of Reaper 0.15 EC or any other foliarly applied abamectin containing product/season.

Maximum Amount/Season: Do not apply more than 40.0 fl ozs/A (or 0.047 lb. Al/A) of Reaper 0.15 EC or any other foliarly applied abamectin containing product/season.

Maximum Amount/Application: Do not apply more than 20.0 fl ozs/A (or 0.023 lb Al/A) of Reaper 0.15 EC or any other foliarly applied abamectin containing product/application.

Grazing: Do not allow livestock to graze in treated orchards.

CELERIAC (Apium graveollens) For control of Twospotted spider mite

Reaper 0.15 EC 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.

Pest	FI Ozs/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:

PHI: Do not apply within 7 days of harvest.

Application Method: Apply with ground application equipment only.

Amount of Water: Do not apply in less than 20.0 gals of water/A.

Application Interval: Wait at least 7 days before repeating application.

Number of Applications: Do not make more than 2 sequential applications of Reaper 0.15 EC or any other foliarly applied abamectin containing product.

Maximum Amount/Season: After transplanting the celeriac, do not apply more than 48.0 fl ozs/A (or 0.056 lb Al/A) of Reaper 0.15 EC or any other foliarly applied abamectin containing product/season.

CITRUS FRUIT CROP GROUP 10

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

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

Thorough spray coverage is essential for good mite and insect control. Spray gallonage may vary depending on size and number of trees per acre as well as density of foliage.

Ground Application

Apply using conventional dilute or concentrate ground application sprayers calibrated to deliver sufficient water for thorough coverage (or outside coverage for Asian citrus psyllid, citrus leafminer, or citrus thrips).

Aerial Application

Aerial application is permitted only for control of citrus leafminer. Aerial application to citrus is not approved in California.

Pest	Dilute Sprays ^a Fl Ozs/100 Gals	Concentrate Sprays ^b FI Ozs/A	Instructions
Asian citrus psylla		10.0 to 20.0 ^c	 Applications should be made with a minimum of 0.20%
Broad mite	1.0 to 2.0	10.0 to 20.0 ^c	horticultural spray oil (not a dormant oil) in the spray mixture
Citrus bud mite	1.0 to 2.0	10.0 to 20.0 ^d	or not less than 1.0 gal of oil/A (except when specified
Citrus leafminer		5.0 to 20.0 ^c	differently below).
Citrus rust mite	0.5 to 2.0	5.0 to 20.0 ^C	 Asian citrus psylla: Apply to protect newly expanding foliage
Citrus thrips		10.0 to 20.0 ^e	flush during the spring, summer or fall. Reaper 0.15 EC will
Twospotted spider mite	1.0 to 2.0	10.0 to 20.0	only 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. (See Use Restrictions) 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 eghatch has begun - preferably early to mid-hatch). (See Use Restrictions)

^a The rate of Reaper 0.15 EC/100 gals is based on a volume of 1,000 gals/A dilute spray.

^b For concentrate sprays, adjust the dosage to apply an amount/A equal to that used in full cover dilute spray.

^c Ground application: For best results, use 150 to 300 gals/A of spray mix with a minimum of 3.0 gals/A of horticultural oil (not a dormant oil) and apply at a ground speed of 1.0 to 1.5 mph.

^d For best results, use a minimum of 500 gals/A of spray mix with a minimum of 0.5% horticultural spray oil (not a dormant oil).

^e For best results, use 100 to 250 gals/A of spray mix applied to achieve outside coverage.

Citrus Fruit Crop Group cont'd.:

Use Restrictions:

PHI: Do not apply within 7 days of harvest.

Application Method:

To control Citrus leafminer - Ground or aerial application is permitted; however, do not apply with aircraft to citrus in California. For aerial application use a minimum of 10.0 gals of finished spray volume/A. 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. **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 Reaper 0.15 EC, or any other abamectin containing product, within 30 days of the last treatment. To manage insect resistance, see the "Resistance Management" heading under the "GENERAL INFORMATION" section of this label. Maximum Amount/Season: Do not apply more than 40.0 fl oz/A (0.047 lb Al/A) of Reaper 0.15 EC, or any other foliarly applied abamectin containing product, in any growing season. Do not make more than 3 applications of Reaper 0.15 EC, or any other abamectin containing product, in any growing season.

Grazing: Do not allow livestock to graze in treated grove/orchards.

COTTON

For the 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 coverage and control apply Reaper 0.15 EC with ground application equipment.

FI Ozs/A	Instructions
Lower rate:	Apply when mites first appear. The use rate depends on the
4.0 to 6.0	size of the plant and density of the foliage. Repeat application if needed to maintain control. (See Use Restrictions)
(For early season cotton	그는 것이 같은 것이 같이 다 집에 가지 않는 것이 같이 많다.
See Instructions)	The lower use rates of 4.0 to 6.0 fl ozs/A are only recommended if cotton is early season and under 10 inches in height. Do
Higher rate:	not use less than 4.0 fl ozs/A. West of the Rocky Mountains -
8.0 to 16.0	the lower use rates may only be used on cotton less than 10 inches in height and applied only with ground equipment.
	Note: Reaper 0.15 EC 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.
	Lower rate: 4.0 to 6.0 (For early season cotton See Instructions) Higher rate:

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 5.0 gals of water/A. Use sufficient volume to insure thorough coverage. Maximum Amount/Application: Do not apply more than 16.0 fl ozs/A (or 0.019 lb Al/A) of Reaper 0.15 EC or any other foliarly applied abamectin containing product/application.

Application interval: Wait at least 21 days before repeating application.

Maximum Amount/Season: Do not apply more than 32.0 fl ozs/A (or 0.038 Al/A) of Reaper 0.15 EC or any other foliarly applied abamectin containing product/season.

Grazing Restriction: Do not feed or allow livestock to graze treated cotton.

CUCURBITS CROP GROUP 9

Crops in this group are: Chayote, Chinese waxgourd, Citron melon, Cucumbers, Gherkin, Edible gourds (includes hyotan, cucuzza, hechima, Chinese okra), *Momordica* spp. (includes balsam apple, balsam pear, bittermelon, Chinese cucumber), Muskmelon (hybrids and/or cultivars of *Cucumis melo* includes true cantaloupe, cantaloupe, casaba, Crenshaw melon, golden pershaw melon, honeydew melon, honey balls, mango melon, Persian melon, pineapple melon, Santa Claus melon and snake melon), Pumpkin, Summer squash (includes crookneck squash, scallop squash, straightneck squash, vegetable marrow, zucchini), Winter squash, (includes butternut squash, calabaza, hubbard squash, acorn 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 optimum results. Inadequate coverage may result in reduced control.

NOTE: Reaper 0.15 EC may be applied with ground application equipment or aircraft. For best control of mites, apply Reaper 0.15 EC with ground 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 Reaper 0.15 EC is aerially applied.

Pest	FI Ozs/A	Instructions
Leafminers Spider mites	8.0 to 16.0	 Use 8.0 to 12.0 fl ozs/A for low to moderate infestations and 16.0 fl ozs/A for severe infestations. Apply when adult leafminer flies or spider mites are first observed and repeat application, as needed, to maintain control within constraints of a sound resistance management program. (See Use Restrictions)

Use Restrictions:

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 20.0 gals of water/A with ground application equipment. Do not apply in less than 5.0 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/Application: Do not apply more than 16.0 fl ozs/A (or 0.019 lb Al/A) of Reaper 0.15 EC or any other foliarly applied abamectin containing product/application.

Application Interval: Wait at least 7 days before repeating application.

Number of Applications: Do not make more than 2 sequential applications of Reaper 0.15 EC or any other foliarly applied abamectin containing product.

Maximum Amount/Season: Do not apply more than 48.0 fl ozs/A (or 0.056 lb Al/A) of Reaper 0.15 EC or any other foliarly applied abamectin containing product in a growing season.

FRUITING VEGETABLE CROP GROUP 8

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

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

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

NOTE: Reaper 0.15 EC may be applied with ground application equipment or aircraft. For best control of mites, apply Reaper 0.15 EC 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 Reaper 0.15 EC is aerially applied.

Pest	FI Ozs/A	Instructions
Broad mite Colorado potato beetle <i>Liriomyza</i> leafminers Potato psyllid Spider mites <i>Thrips palmi</i> Tomato russet mite	8.0 to 16.0	 Broad, russet, and Spider mite: 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. Mites, Leafminers, Thrips palmi, and Colorado potato beetle:
Tomato pinworm	16.0	 Use 8.0 fl ozs/A for low to moderate infestations and 16.0 fl ozs/A for severe infestations. Repeat application as necessary to maintain control. (See Use Restrictions) Note: Reaper 0.15 EC 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 non-ionic surfactants.

Use Restrictions:

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 20.0 gals of water/A with ground application equipment. Do not apply in less than 5.0 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.

Application Interval: Wait at least 7 days before repeating application, but do not make more than 2 sequential applications of Reaper 0.15 EC or any other foliarly applied abamectin containing product.

Number of Applications: Do not make more than 2 sequential applications of Reaper 0.15 EC or any other foliarly applied abamectin containing product.

Maximum Amount/Season: Do not apply more than 48.0 fl ozs/A in a growing season (or 0.056 lb Al/A) of Reaper 0.15 EC or any other foliarly applied abamectin containing product in a growing season.

Maximum Amount/Application: Do not apply more than 16.0 fl ozs/A (or 0.019 lb Al/A) of Reaper 0.15 EC or any other foliarly applied abamectin containing product/application.

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GRAPES

For control of Pacific spider mite, Twospotted spider mite, Variegated leafhopper, Western grape leafhopper, Western grapeleaf skeletonizer, and Willamette spider mite

Reaper 0.15 EC may be applied using conventional 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. Reaper 0.15 EC must be applied to both sides of each row for maximum coverage.

Pest	FI Ozs/A	Instructions
Pacific spider mite Twospotted spider mite Variegated leafhopper Western grape leafhopper Western grapeleaf skeletonizer Willamette spider mite	8.0 to 16.0 plus a nonionic surfactant	 Use 8.0 to 12.0 fl ozs/A for low to moderate infestations and 16.0 fl ozs for severe infestations. Repeat application, if needed. (See Use Restrictions) Note: Reaper 0.15 EC 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 Reaper 0.15 EC 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 Reaper 0.15 EC in combination with a non-ionic surfactant, carefully follow the Directions for Use and Precautions on the nonionic surfactant label and in official spray guides. Spider mites: Apply when mites first appear but before motiles exceed 5 per leaf. Western grapeleaf skeletonizer: Apply Reaper 0.15 EC plus. a nonionic surfactant when larvae are first observed. For optimum control, apply shortly after egg hatch. Leafhoppers: Apply Reaper 0.15 EC plus a nonionic surfactant using thorough spray coverage for contact knock-down only.

Use Restrictions:

PHI: Do not apply within 28 days of harvest.

Application Method: Ground application only.

Amount of Water: Do not apply in less than 50.0 gals of water/A with conventional ground application equipment. When using an electro-static sprayer, less than 50.0 gals of water/A may be used, however do not use less than 5.0 gals of water/A.

Maximum Amount/Application: Do not apply more than 16.0 fl ozs/A (or 0.019 lb Al/A) of Reaper 0.15 EC or any other foliarly applied abamectin containing product/application.

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 of Reaper 0.15 EC or any other foliarly applied abamectin containing product/growing season.

Maximum Amount per Season: Do not apply more than 32.0 fl ozs/A (or 0.038 lb Al/A) of Reaper 0.15 EC or any other foliarly applied abamectin containing product in a growing season.

Grazing: Do not allow livestock to graze in treated vineyards.

13/19

HERB CROP SUBGROUP 19A (Except Chives)

Crops in this subgroup are: Angelica, Balm, Basil, Borage, Burnet, Catnip, Chamomile, Chervil (dried), Cilantro (leaf), Clary, Coriander (leaf), Costmary, Culantro (leaf), Curry (leaf), Dill weed, Horehound, Hyssop, Lavender, Lemongrass, Lovage (leaf), Marigold, Marjoram (*Origanum* species), Nasturtium, Parsley (dried), Penneyroyal, 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 insure good upper and lower leaf coverage.

Pest	FI Ozs/A	Instructions
<i>Liriomyza</i> leafminers	8.0 to 16.0	 Use 8.0 fl ozs/A for low to moderate infestations and 16.0 fl ozs/A for severe infestations. Apply when adult flies are first observed and repeat application, as necessary to maintain control. (See Use Restrictions) Reaper 0.15 EC 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 Reaper 0.15 EC 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 Reaper 0.15 EC in combination with a nonionic surfactant label and in official spray guides.

Use Restrictions:

PHI: Do not apply within 14 days of harvest.

Application Method: Apply with ground application equipment.

Amount of Water: Use a minimum of 20.0 gals of water/A.

Application Interval: Wait at least 7 days before repeating application.

Maximum Amount/Application: Do not apply more than 16.0 fl ozs/A (or 0.019 lb Al/A) of Reaper 0.15 EC or any other foliarly applied abamectin containing product/application.

Number of Applications: Do not make more than 2 applications of Reaper 0.15 EC or any other foliarly applied abamectin containing product/single cutting (harvest).

Maximum Amount/Season: Do not apply more than 48.0 fl ozs/A (or 0.056 lb Al/A) of Reaper 0.15 EC or any other foliarly applied abamectin containing product/cropping season.

HOPS (Not approved for use in California)

For control of Twospotted spider mite

Mix with water as 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 any 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 Reaper 0.15 EC/A should remain the same as for dilute sprays.

Pest	FI Ozs/A	Instructions
Twospotted spider mite	8.0 to 16.0	 Apply Reaper 0.15 EC when Twospotted spider mites reach treatment thresholds. For applications at 1/2 trellis growth (6.0 to 8.0 ft height) apply 8.0 to 16.0 fl ozs/A in a minimum of 40.0 gals of water/A. For applications beyond 1/2 trellis growth, do not use less than 16.0 fl ozs/A in a minimum of 100 gals of water/A. Note: Reaper 0.15 EC 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:

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 alternative miticide with a different mode of action has been used.

Hops cont'd.:

Maximum Amount/Application: Do not apply more than 16.0 fl ozs/A (or 0.019 lb Al/A) of Reaper 0.15 EC or any other foliarly applied abamectin containing product/application.

Maximum Number of Applications: Do not make more than 2 applications (32.0 fl ozs/A) of Reaper 0.15 EC or any other foliarly applied abamectin containing product/growing season.

Grazing: Do not allow livestock to graze in treated hops yards.

LEAFY VEGETABLE (Except Brassica Vegetables) CROP GROUP 4

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

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 optimum results. Inadequate coverage may result in reduced control.

Note: Reaper 0.15 EC may be applied with ground application equipment or aircraft. For best control of mites, apply Reaper 0.15 EC 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 with Reaper 0.15 EC is aerially applied.

Pest	FI Ozs/A	Instructions
Carmine spider mite <i>Liriomyza</i> leafminers Twospotted spider mite	8.0 to 16.0 plus a nonionic surfactant	 Use 8.0 to 12.0 fl ozs/A for low to moderate infestations and 16.0 fl ozs/A for severe infestation. 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: Reaper 0.15 EC 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:

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 leafy vegetables grown for transplanting.

Amount of Water: Do not apply in less than 20.0 gals of water/A with ground application equipment. Do not apply in less than 5.0 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/Application: Do not apply more than 16.0 fl ozs/A (or 0.019 lb Al/A) of Reaper 0.15 EC or any other foliarly applied abamectin containing product/application.

Application Interval: Wait at least 7 days before repeating application.

Number of Applications: Do not make more than 2 sequential applications of Reaper 0.15 EC or any other foliarly applied abamectin containing product.

Maximum Amount/Season: Do not apply more than 48.0 fl ozs/A (or 0.056 lb Al/A) of Reaper 0.15 EC or any other foliarly applied abamectin containing product/growing season.

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 optimum results. Inadequate coverage may result in reduced control.

Pest	FI Ozs/A	Instructions
Twospotted spider mite	8.0 to 12.0	 Treat when mites first appear. For optimum control, a nonionic surfactant or organosilicone-based surfactant should be used at the manufacturer's recommended rate.

Use Restrictions:

PHI: Do not apply within 28 days of harvest.

Application Method: Ground or aerial application permitted; however do not apply with aircraft in New York State.

Amount of Water: Do not apply in less than 20.0 gals of water/A with ground application equipment. Do not apply in less than 5.0 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/Application: Do not apply more than 12.0 fl ozs/A (or 0.042 lb Al/A) of Reaper 0.15 EC or any other foliarly applied abamectin containing product/application.

Application Interval: Wait at least 7 days before repeating application.

Number of Applications: Do not make more than 2 sequential applications of Reaper 0.15 EC or any other foliarly applied abamectin containing product and do not apply more than 3 applications of Reaper 0.15 EC or any other foliarly applied abamectin containing product/season.

Maximum Amount/Season: Do not apply more than 36.0 fl ozs/A (or 0.042 lb Al/A) of Reaper 0.15 EC or any other abamectin containing product/crop/season.

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 Reaper 0.15 EC 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. In any case, thorough coverage is essential for good spider mite and insect control.

Note: For best results, 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 residual control. When using Reaper 0.15 EC plus horticultural spray oil, carefully follow the **Directions for Use** and **Precautions** on the horticultural spray oil label as well as the precautions in official spray guides or on product labels. For example, applying Reaper 0.15 EC plus horticultural spray oil in less than 14 days before or after applying Captan can result in phytotoxicity and crop loss.

Pest	Dilute Sprays ^a Fl Ozs/100 Gals	Concentrate Sprays ^b FI Ozs/A	Instructions
European red mite McDaniel spider mite Pear psylla Pear rust mite Twospotted spider mite Yellow mite	2.5 to 5.0	10.0 to 20.0	 Apply Reaper 0.15 EC 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 1.0 gal/A	Minimum of 1.0 gal/A	

^a The rate of Reaper 0.15 EC/100 gals is based on a volume of 400 gals/A dilute spray.

^b To determine the amount of product/A for concentrate sprays, first determine the amount that would be required in a full cover dilute spray. Use the same amount of product/A in concentrate sprays as would be required for the dilute sprays to the same orchard/grove. This may result in use of less than 10.0 fl ozs/A on small trees.

Use Restrictions:

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 40.0 gals of water/A.

Maximum Amount/Application: Do not apply more than 20.0 fl ozs/A (or 0.023 lb Al/A) of Reaper 0.15 EC or any other foliarly applied abamectin containing product/application.

Application Interval: If a second application is necessary, wait at least 21 days before repeating application.

Pears cont'd .:

Number of Applications: Do not make more than 2 applications of Reaper 0.15 EC or any other foliarly applied abamectin containing product/growing season.

Maximum Amount/Season: Do not apply more than 40.0 fl ozs/A (or 0.047 lb Al/A) of Reaper 0.15 EC or any other foliarly applied abamectin containing product in a growing season.

Grazing: Do not allow livestock to graze in treated orchards.

STONE FRUIT 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

Reaper 0.15 EC 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 any case, thorough coverage is essential for good spider mite control.

Pest	Dilute Sprays ^a Fl Ozs/100 Gals	Concentrate Sprays ^b FI Ozs/A	Instructions
European red mite Pacific spider mite Twospotted spider mite	2.5 to 5.0	10.0 to 20.0	 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) OR Nonionic Surfactant	0.25% or 1.0 gal/A Labeled Rate	Minimum of 1.0 gal/A	 Always apply Reaper 0.15 EC in combination with a non- ionic 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 penetrates the leaf cuticle can improve insect control. Although Reaper 0.15 EC 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. Therefore, when using Reaper 0.15 EC in combination with a nonionic surfactant, carefully follow the Directions for Use and Precautions on the surfactant label and in official 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 nonionic surfactants at the manufacturer's recommended rate. 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/A in the final finished spray.

^a The rate of Reaper 0.15 EC per 100 gals is based on the volume of 400 gals/A dilute spray.

^b To determine the amount of product per acre for concentrate sprays, first determine the amount that would be required in a full cover dilute spray. Use the same amount of product/A in concentrate spray as would be required for the dilute sprays to the same orchard/grove. This may result in use of less than 10.0 fl ozs/A on small trees.

Use Restrictions:

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 40.0 gals of water/A.

Maximum Amount/Application: Do not apply more than 20.0 fl ozs any other foliarly applied abamectin containing product /A/application.

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 of Reaper 0.15 EC or any other foliarly applied abamectin containing product in a growing season.

Maximum Amount/Season: Do not apply more than 40 fl ozs/A (or 0.047 lb Al/A) of Reaper 0.15 EC or any other foliarly applied abamectin containing product in a growing season.

Grazing: Do not allow livestock to graze in treated orchards.

STRAWBERRIES

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 tops and undersides of leaves.

Pest	FI Ozs/A	Instructions
Strawberry spider mite Twospotted spider mite	16.0	 Make 2 applications 7 to 10 days apart when mites first appear. Repeat this application sequence, if needed, to maintain control. (See Use Restrictions) Note: Reaper 0.15 EC 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:

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 50.0 gals of water/A with conventional ground application equipment. When using electrostatic sprayers do not apply in less than 10.0 gals of water/A.

Maximum Amount/Application: Do not apply more than 16.0 fl ozs/A (or 0.019 lb Al/A) of Reaper 0.15 EC or any other foliarly applied abamectin containing product/application.

Application Interval: Wait at least 21 days after the second application before repeating application.

Maximum Amount/Season: Do not apply more than 64.0 fl ozs/A (or 0.075 lb Al/A) of Reaper 0.15 EC or any other foliarly applied abamectin containing product in a growing season.

TREE NUTS CROP GROUP 14 AND PISTACHIO

Crops in this group are: Almond, Beech nut, Brazil nut, Butternut, Cashew, Chestnut, Chinquapin, Filbert (hazelnut), 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.

Reaper 0.15 EC 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 any case, thorough coverage is essential for good spider mite and insect control.

Pest	Dilute Sprays ^a Fl Ozs/100 Gals	Concentrate Sprays ^b FI Ozs/A	Instructions
European red mite Pacific spider mite Strawberry spider mite Twospotted spider mite	2.5 to 5.0	10.0 to 20.0	 Always use Reaper 0.15 EC in combination with a horticultural spray oil (not a dormant oil) approved for use on tree nuts. Apply Reaper 0.15 EC when spider mites first appear.
Horticultural Spray Oil (not a dormant oil)	0.25% or 1.0 gal/A	Minimum of 1.0 gal/A	 Residual spider mite control is greater from spray deposits on newer leaves compared to older leaves. A second application may be made, if needed, to maintain control. (See Use Restrictions.)

^a The rate of Reaper 0.15 EC per 100 gals based on a volume of 400 gals/A dilute spray.

^b To determine the amount of product/A for concentrate sprays, first determine the amount that would be required in a full cover dilute spray. Use the same amount of product/A in concentrate sprays that would be required for the dilute sprays to the same orchard/grove. This may result in use of less than 10.0 fl ozs/A on small trees.

Use Restrictions:

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 40.0 gals of water/A.

Application Interval: If a second application is necessary, wait at least 21 days before repeating application.

Maximum Amount/Application: Do not apply more than 20.0 fl ozs/A (or 0.023 lb Al/A) of Reaper 0.15 EC or any other foliarly applied abamectin containing product per application.

Applications/Season: Do not make more than 2 applications of Reaper 0.15 EC or any other foliarly applied abamectin containing product per growing season.

Maximum Amount/Season: Do not apply more than 40.0 fl ozs/A (or 0.047 lb Al/A) of Reaper 0.15 EC or any other foliarly applied abamectin containing product in a growing season.

Grazing: Do not allow livestock to graze in treated groves/orchards.

TUBEROUS AND CORM VEGETABLES 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, Tumeric, Yam bean, and Yam (true) For control of Colorado potato beetle. *Liriomyza* leafminers. Potato psyllid, and Spider mites

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

Note: Reaper 0.15 EC may be applied using ground application equipment or aircraft. For best control of mites, apply Reaper 0.15 EC 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 Reaper 0.15 EC is aerially applied.

Pest	FI Ozs/A	Instructions
Colorado potato beetle <i>Liriomyza</i> leafminers Potato psyllid Spider mites	8.0 to 16.0	 Use 8.0 to 12.0 fl ozs/A for low to moderate infestations and 16.0 fl ozs/A for severe infestations. The addition of a nonionic surfactant or organosilicone-based surfactant, at the manufacturer's recommended rate, is suggested for optimum spider mite and insect control. Insect and spider mite control may be reduced if Reaper 0.15 EC is used in combination with a sticker or binder type product such as Initiate® 720 Flowable Fungicide. 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:

PHI: Do not apply within 14 days of harvest.

Application Method: Ground or aerial application permitted; however do not apply with aircraft to in New York State.

Amount of Water: Do not apply in less than 20.0 gals of water/A with ground application equipment. Do not apply in less than 5.0 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 16.0 fl ozs/A (or 0.019 lb Al/A)/application.

Application Interval: Wait at least 7 days before repeating application.

Number of Applications: Do not make more than 2 sequential applications of Reaper 0.15 EC or any other foliarly applied abamectin containing product.

Maximum Amount per Crop: Do not apply more than 32.0 fl ozs/A (0.038 lb Al/A) of Reaper 0.15 EC or any other foliarly applied abamectin containing product /crop for spider mite or Colorado potato beetle control. Do not apply more than 48.0 fl ozs/A (or 0.056 lb Al/A) of Reaper 0.15 EC or any other foliarly applied abamectin containing product/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: Pesticide spray mixture or rinsate that cannot be used should be disposed of in a landfill approved for pesticides. Improper disposal of excess pesticide spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by the use according to label instruction, contact your State Pesticide or Environmental 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. It may be allowable to temporarily hold rinsate or other pesticide-related materials in the container. Contact your state regulatory agency to determine allowable practices in your state. Once cleaned, some agricultural plastic pesticide containers can be taken to a container collection site or picked up for recycling. To find the nearest site, contact your chemical dealer or manufacturer, or contact The Agricultural Container Recycling Council (ACRC) at www.acrecycle.org. If not recycled, then puncture and dispose of in a sanitary landfill, or incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Triple rinse or pressure 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 ¹/₄ 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. **Pressure rinse as follows:** Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. **Pressure rinse as follows:** Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

For help with any spill, leak, fire or exposure involving this material, call day or night CHEMTREC - 1-800-424-9300.

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BEFORE BUYING OR USING THIS PRODUCT, read the entire Directions for Use and the following Conditions of Sale and Limitation of Warranty and Liability. By buying or using this product, the buyer or user accepts the following Conditions of Sale and Limitation of Warranty and Liability, which no employee or agent of LOVELAND PRODUCTS, INC. or the seller is authorized to vary in any way.

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