



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

July 11, 2017

Solito Sumulong  
Loveland Products Inc.  
P.O. Box 1286  
Greeley, CO 80632-1286

Subject: PRIA Label and CSF Amendment – Changing Basic and Alternate CSF's A, B, and C as well as revising label to add tropical fruits, expanding crop groups (stone fruits and pome fruits), and other minor label edits  
Product Name: Reaper Clearform  
EPA Registration Number: 34704-1078  
Application Date: February 20, 2017  
Decision Number: 526882

Dear Mr. Sumulong,

The amended label and CSF(s) referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, are acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Please note that the record for this product currently contains the following CSF(s):

- Basic CSF dated 02/20/2017
- Alternate CSF A dated 02/20/2017
- Alternate CSF B dated 02/20/2017
- Alternate CSF C dated 02/20/2017

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40

CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. If you have any questions, please contact Jessica Rogala by phone at 703-347-0263, or via email at [rogala.jessica@epa.gov](mailto:rogala.jessica@epa.gov).

Sincerely,

A handwritten signature in blue ink that reads "Meredith F. Laws". The signature is written in a cursive, flowing style.

Meredith F. Laws, Chief  
Invertebrate-Vertebrate Branch 3  
Registration Division  
Office of Pesticide Programs

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.

# REAPER<sup>®</sup>

ClearForm

GROUP 6 INSECTICIDE

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

\*1.0 gallon contains 0.15 pound abamectin

## KEEP OUT OF REACH OF CHILDREN CAUTION

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.)

**FIRST AID:** If swallowed: Call poison control center or doctor immediately for treatment advice. **DO NOT** give any liquid to the person. **DO NOT** induce vomiting unless told to by the poison control center or doctor. **DO NOT** give anything by mouth to an unconscious person. **If in eyes:** Give eye open and rinse slowly and gently with water for 15 to 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.

EPA REG NO. 34704-1078  
EPA EST. NO. 34704-MS-002  
NET CONTENTS 1.0 GAL (3.78 L)  
EXP 1116

FORMULATED FOR  
LOVELAND PRODUCTS, INC.® P.O. BOX 1286 GREELEY, COLORADO 80632-1286

**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 absorbents (e.g., activated charcoal). If toxicity from exposure has progressed to cause severe vomiting, the extent of resultant fluid and electrolyte imbalance should be gauged. Appropriate supportive parenteral fluid replacement therapy should be given, along with other required supportive measures (such as maintenance of blood pressure levels and proper respiratory functionality) as indicated by clinical signs, symptoms, and measurements. In severe cases, observations should continue for at least several days until clinical condition is stable and normal. Since abamectin is believed to enhance GABA activity in animals, avoid drugs that enhance GABA activity (barbiturates, benzodiazepines, valproic acid) in patients with potentially toxic abamectin exposure. **FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-866-944-8565.**

**ACCEPTED**

07/11/2017

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

EPA Reg. No. 34704-1078



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

Harmful if swallowed. Causes moderate eye irritation. **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 skin contact may cause allergic reactions in some individuals.

**Personal Protective Equipment (PPE)**

**Applicators and other handlers must wear:**

- Coveralls worn over short-sleeved shirt and short pants.
- Chemical-resistant gloves made out of: barrier laminate or butyl rubber ≥ 14mils.
- Chemical-resistant footwear plus socks.
- Protective eyewear.
- Chemical-resistant headgear for overhead exposure.
- Chemical-resistant apron when cleaning equipment, mixing, or loading.

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

**USER SAFETY RECOMMENDATIONS**

- Users should:**
- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
  - Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
  - Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

**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. Do not mix or allow coming into contact with oxidizing agents. Hazardous chemical reaction may occur.

**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 gridding, cane burning, and lying in grapes, do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 4 days.

Work in 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 made of: barrier laminate or butyl rubber ≥ 14 mils,
- Chemical-resistant footwear plus socks,
- Protective eyewear,
- Chemical-resistant headgear for overhead exposure.

#### NON-AGRICULTURAL USE REQUIREMENTS

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

**Do not reenter treated areas until sprays have dried.**

#### APPLICATION INFORMATION

Reaper® ClearForm® 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.

#### IMPORTANT:

Reaper ClearForm has been tested for phytotoxicity and has a wide margin of safety on a variety of crops. Reaper ClearForm 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 ClearForm to ensure the physical compatibility and lack of phytotoxic effects.

- **New York State Restrictions:** **DO NOT** apply Reaper ClearForm 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.

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

#### Spray Drift Precautions for Application with Aircraft or Ground Application Equipment

- Apply Reaper ClearForm 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 streams, marshes, potholes, natural ponds, estuaries, or commercial fish farm ponds.
- **DO NOT** cultivate within 150 feet of lakes, reservoirs, rivers, permanent vegetative filter strip.
- **DO NOT** cultivate within 25 feet of the aquatic area to allow growth of a 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 ClearForm 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 spraying 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 lowest 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 to 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.

**IMPORTANT:** 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 ClearForm in low relative humidity, set up equipment to produce larger droplets. Evaporation of droplets is most severe when conditions are both hot

#### Temperature Inversions

Reaper ClearForm 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

Some insect or mite pests are known to develop resistance to products after repeated use. Because resistance development cannot be predicted, the use of this product should conform to sound resistance management strategies established for the crop and use area. Loveland Products, Inc. encourages responsible product stewardship to ensure effective long-term control of the insects or mites on this label.

Reaper ClearForm contains a Group 6 miticide/insecticide (abamectin). Insect or mite biotypes with acquired or inherent resistance to Group 6 miticides/insecticides may eventually dominate the pest population if Group 6 miticides/insecticides are used repeatedly as the predominant method of control for targeted species. This may result in partial or total loss of control of those species by Reaper ClearForm or other Group 6 miticides/insecticides.

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

#### In order to maintain susceptibility to this class of chemistry:

- Avoid using Group 6 miticides/insecticides exclusively for season long

control of insect or mite species with more than one generation per calendar year.

- For insect or mite species with successive or overlapping generations, apply Reaper ClearForm or other Group 6 miticides/insecticides using a "treatment window" approach. A treatment window is a period of time as defined by the stage of crop development and/or the biology of the pest of concern. Within the treatment window, depending on the length of residual activity, there may either be single or consecutive applications (seed treatment, soil, foliar, unless otherwise stated) of the Group 6 miticides/insecticides. **DO NOT** exceed the maximum Reaper ClearForm allowed per calendar year.
- Following a treatment window of Group 6 miticides/insecticides, rotate to a treatment window of effective products with a different mode of action before making additional applications of Group 6 miticides/insecticides.
- A treatment window rotation, along with other IPM practices for the crop and use area, is considered an effective strategy for preventing or delaying a pest's ability to develop resistance to these classes of chemistry.
- If resistance is suspected, do not reapply Reaper ClearForm or other Group 6 miticides/insecticides.

#### Other Insect or Mite Resistance Management (IRM) Practices

- Incorporate IPM techniques into your insect or mite control program.
- Monitor treated insect or mite populations for loss of field efficacy.
- Use tank-mixtures or premixes with miticides/insecticides from a different target site of action group as long as the involved products are all registered for the same crop outlet and effective rates are applied.

#### For additional information on Insect or Mite Resistance Management:

- Contact your local extension specialist, certified crop advisor and/or product manufacturer for additional insect resistance management recommendations.
- Visit the Insecticide Resistance Action Committee (IRAC) on the web at <http://www.irac-online.org/>.

#### CROP USE DIRECTIONS

##### AVOCADOS

##### For control of Avocado thrips.

**IMPORTANT:** Reaper ClearForm 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

**AVOCADOS CONT'D**

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 ClearForm 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  | Fl Oz/A   | Instructions   |
|---|---|--|
| Avocado thrips<br>( <i>Scirtothrips perseae</i> ) | 10.0 to 20.0<br><b>DO NOT</b> use less than 10.0 fl oz of product/A | <ul style="list-style-type: none"> <li>• For best results, apply when immature Thrips are first observed but before numbers exceed 5 immature Thrips/leaf/fruit.</li> <li>• Use 10.0 to 15.0 fl oz product/A for low* to moderate* infestations and 15.0 to 20.0 fl oz product/A for severe* infestations. Add 1.0 to 4.0% of a horticultural spray oil (not a dormant oil) approved for use on avocados.</li> <li>• Make a second application, if needed, to maintain control, but wait at least 30 days after the first application to retreat. <b>(See Use Restrictions)</b></li> <li>• <b>For Ground Application:</b> If spray volume is greater than 400 gal/A apply Reaper ClearForm at a rate of 2.5 fl oz/100 gal water plus 1.0 to 4.0% of a horticultural spray oil (not a dormant oil) approved for use on avocados.</li> <li>• <b>Note:</b> 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 making a large-scale application.</li> </ul> |

| *Thrips Infestation Level | Number of Immature Thrips/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 gallons of water with ground equipment or 50.0 gallons 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 ClearForm or any other foliarly applied abamectin containing product per calendar year.
- **Maximum Amount per Calendar Year:** **DO NOT** apply more than 0.047 pound abamectin per acre (40.0 fluid ounces per acre of Reaper ClearForm) per calendar year.
- **Maximum Amount per Application:** **DO NOT** apply more than 0.023 pound abamectin per acre (20.0 fluid ounces per acre of Reaper ClearForm) per application.
- **Grazing:** **DO NOT** allow livestock to graze in treated orchards.



**BEAN, DRY AND SUCCULENT**  
 Crops: *Cicer arietinum* (chickpea, garbanzo bean); *Lupinus* spp. (including sweet lupine, white sweet lupine, white lupine, and grain lupine); *Phaseolus* spp. (including kidney bean, lima bean, mung bean, navy bean, pinto bean, snap bean, and waxbean); *Vicia faba* (broad bean, fava bean); *Vigna* spp. (including asparagus bean, blackeye pea and cowpea\*)  
 \*For use on cowpeas that are grown only for dry seed. **DO NOT** allow livestock to graze cowpea forage and do not harvest cowpea forage or hay for use as livestock feed.

**For control of Liriomyza leafminers and Spider Mites.**  
 Mix with water as indicated below. Thorough coverage of the crop canopy is essential for optimum results. Inadequate coverage can result in reduced control.

**Note:**  
 • Apply Reaper ClearForm with ground application equipment or aircraft.  
 • For best control, apply Reaper ClearForm with ground application equipment. With aerial application, the resulting control of leafminers and spider mites could be less than with ground application.

| Pest                                 | Fl Oz/A     | Instructions   |
|--------------------------------------|-------------|--|
| Liriomyza leafminers<br>Spider mites | 8.0 to 16.0 | <ul style="list-style-type: none"> <li>Use 8.0 to 12.0 fl oz/A for low to moderate infestations and 13.0 to 16.0 fl oz/A for high infestations.</li> <li><b>Leafminers and Spider Mites:</b> 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. <b>(See Use Restrictions.)</b></li> </ul> |

**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 10.0 gallons of water per acre with ground application equipment. **DO NOT** apply in less than 5.0 gallons 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 ensure adequate coverage
- **Maximum Amount per Application: DO NOT** apply more than 0.019 pound abamectin per acre (16.0 fluid ounces per acre Reaper ClearForm) per application
- **Application Interval:** Wait at least 6 days before repeating application.
- **Number of Applications: DO NOT** make more than 2 sequential applications of Reaper ClearForm or any other foliarly applied abamectin-containing product
- **Maximum Amount per Calendar Year: DO NOT** apply more than 0.056 pound abamectin per acre (48.0 fluid ounces per acre Reaper ClearForm) per calendar year.

**CELERICAC (*Aptium graveolens*)**  
 For control of Twospotted spider mite. Reaper ClearForm 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                   | Fl Oz/A | Instructions  |
|------------------------|---------|---|
| Twospotted spider mite | 16.0    | <ul style="list-style-type: none"> <li>• For best results, use in combination with a non-ionic surfactant</li> <li>• Apply when Mites first appear and repeat as necessary to maintain control. (See Use Restrictions)</li> </ul> |

**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 gallons of water per acre.
- **Application Interval:** Wait at least 7 days before repeating application.
- **Number of Applications:** **DO NOT** make more than 2 sequential applications of Reaper ClearForm or any other foliarly applied abamectin containing product.
- **Maximum Amount per Calendar Year:** After transplanting the celericac, do not apply more than 0.056 pound abamectin per acre (48.0 fluid ounces per acre Reaper ClearForm) per calendar year.

**CITRUS FRUIT CROP GROUP 10-10**  
 Crops in this group are: Australian desert lime; Australian finger-lime; Australian round lime; Brown River finger lime; calamondin; citron; citrus hybrids; grapefruit; Japanese summer grapefruit; kumquat; lemon; lime; Mediterranean mandarin; mount white lime; New Guinea wild lime; orange, sour; orange, sweet; pummelo; Russell River lime; satsuma mandarin; sweet lime; tachibana orange; Tahiti lime; tangelo; tangerine (mandarin); tanger; trifoliolate orange; uniu fruit; cultivars, varieties, and/or hybrids of these.  
 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.

**CITRUS CROP GROUP 10-10 CONT'D**

| Pest                   | Dilute Sprays <sup>a</sup><br>Fl Oz/100 Gal | Concentrate Sprays <sup>b</sup><br>Fl Oz/A | Instructions   |
|------------------------|---|--|--|
| Asian citrus psylla    | —   | 10.0 to 20.0 <sup>c</sup>                  | <ul style="list-style-type: none"> <li>Applications should be made with a minimum of 0.2% horticultural spray oil (not a dormant oil) in the spray mixture or not less than 1.0 gal of oil/A (except when specified differently below).</li> <li><b>Asian citrus psylla:</b> Apply to protect newly expanding foliage flush during the spring, summer or fall. Reaper ClearForm will only control adults and nymphs present at the time of application.</li> <li><b>Citrus bud mite:</b> For best results, time the spray at "bud swell."</li> <li><b>Citrus leafminer:</b> Apply to protect new growth during spring, summer, or fall. (See Use Restrictions)</li> <li><b>Citrus rust mite:</b> 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). (See Use Restrictions)</li> <li><b>Citrus thrips:</b> Apply when Mites first appear during spring, summer, and/or fall.</li> </ul> |
| Broad mite             | 1.0 to 2.0                                  | 10.0 to 20.0 <sup>c</sup>                  |  |
| Citrus bud mite        | 1.0 to 2.0                                  | 10.0 to 20.0 <sup>d</sup>                  |  |
| Citrus leafminer       | —   | 5.0 to 20.0 <sup>c</sup>                   |  |
| Citrus rust mite       | 0.5 to 2.0                                  | 5.0 to 20.0 <sup>c</sup>                   |  |
| Citrus thrips          | —   | 10.0 to 20.0 <sup>e</sup>                  |  |
| Twospotted spider mite | 1.0 to 2.0                                  | 10.0 to 20.0                               |  |

<sup>a</sup> The rate of Reaper ClearForm per 100 gallons is based on a volume of 1000 gallons per acre dilute spray.  
<sup>b</sup> For concentrate sprays, adjust the dosage to apply an amount per acre equal to that used in full cover dilute spray.  
<sup>c</sup> Ground application: For best results, use 150 to 300 gallons per acre of spray mix with a minimum of 3.0 gallons per acre of horticultural oil (not a dormant oil) and apply at a ground speed of 1 to 1.5 mph.  
<sup>d</sup> For best results, use a minimum of 500 gallons per acre of spray mix with a minimum of 0.5% horticultural spray oil (not a dormant oil).  
<sup>e</sup> For best results, use 100 to 250 gallons per acre of spray mix applied to achieve outside coverage.

**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 gallons of finished spray volume per acre. 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 ClearForm, or any other abamectin containing product, within 30 days of the last treatment.
- Application is not permitted from onset of flowering until after petal fall is complete.
- **Maximum Amount per Calendar Year:** **DO NOT** apply more than 0.047 pound abamectin per acre (40.0 fluid ounces per acre Reaper ClearForm), per calendar year.
- **DO NOT** make more than 3 applications of Reaper ClearForm, or any other abamectin containing product, per calendar year.
- **Grazing:** **DO NOT** allow livestock to graze in treated groves/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 ClearForm with ground application equipment.

| Pest  | Fl Oz/A  | Instructions  |
|---|--|---|
| Spider mites<br>(Twospotted, Carmine, Pacific and Strawberry) | <b>Lower rate:</b><br>4.0 to 6.0<br><br>(For early season cotton <b>See Instructions</b> )<br><br><b>Higher rate:</b><br>8.0 to 16.0 | 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. <b>(See Use Restrictions)</b><br>The lower use rates of 4.0 to 6.0 fl oz/A are only recommended if cotton is early season and under 10 inches in height. <b>DO NOT</b> use less than 4.0 fl oz/A. <b>West of the Rocky Mountains</b> – the lower use rates may only be used on cotton less than 10 inches in height and applied only with ground equipment.<br><b>Note:</b> Reaper ClearForm 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. <b>DO NOT</b> use binder or sticker-type surfactants. |

**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 gallons of water per acre. Use sufficient volume to insure thorough coverage.
- **Maximum Amount per Application: DO NOT** apply more than 0.019 pound abamectin per acre (16.0 fluid ounces per acre Reaper ClearForm) per application.
- **Application Interval:** Wait at least 21 days before repeating application.
- **Maximum Amount per Calendar Year: DO NOT** apply more than 0.038 pound abamectin per acre (32.0 fluid ounces per acre Reaper ClearForm) per calendar year.
- **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, Edible gourds (includes Chinese okra, cucuzza, hechima, hyolan), Gherkin, *Momordica* sp. (includes balsam apple, balsam pear, bittermelon, Chinese cucumber), Muskmelon (hybrids and/or cultivars of *Cucumis melo*) include cantaloupe, casaba, Creashaw melon, golden pershaw melon, honey balls, honeydew melon, mango melon, Persian melon, pine-apple melon, Santa Claus melon, snake melon, and true cantaloupe), Pumpkin, Summer squash (includes crookneck squash, scallop, squash, straightneck squash, vegetable marrow, zucchini), Watermelon (includes hybrids and/or varieties of *Citrullus lanatus*), Winter squash, (includes acorn squash, butternut squash, calabaza, hubbard squash, spaghetti squash).

**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 ClearForm may be applied with ground application equipment or aircraft. For best control of Mites, apply Reaper ClearForm 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 ClearForm is aerially applied.

**CUCURBITS CROP GROUP 9 CONT'D**

| Pest                       | Fl Oz/A     | Instructions  |
|----------------------------|-------------|---|
| Leafminers<br>Spider mites | 8.0 to 16.0 | <ul style="list-style-type: none"> <li>Use 8.0 to 12.0 fl oz/A for low to moderate infestations and 16.0 fl oz/A for severe infestations.</li> <li>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. (<b>See Use Restrictions</b>)</li> </ul> |

**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 gallons of water per acre with ground application equipment. **DO NOT** apply in less than 5.0 gallons 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 0.015 pound abamectin per acre (16.0 fluid ounces per acre Reaper ClearForm) per application.
- **Application Interval:** Wait at least 7 days before repeating application.
- **Number of Applications:** **DO NOT** make more than 2 sequential applications of Reaper ClearForm or any other foliarly applied abamectin containing product.
- **Maximum Amount per Calendar Year:** **DO NOT** apply more than 0.056 pound abamectin per acre (48.0 fluid ounces per acre Reaper ClearForm) per calendar year.

**DRY BEANS**

Crops include: *Cicer arietinum* (Chickpea, Garbanzo bean), *Lupinus spp.* (including Sweet lupine, White sweet lupine, White lupine, and Grain lupine), *Phaseolus spp.* (including Kinney bean, Lima bean, Mung bean, Navy bean, Pinto bean, Snap bean, and Waxbean), *Vicia faba* (Broad bean, Fava bean), and *Vigna spp.* (including Adzuki bean, Asparagus bean, Blackeyed pea, Caljiang, Chinese longbean, Cowpea\*, Crowder pea, Moth bean, Mung bean, Rice bean, Southern pea, Urd bean, and Yardlong bean)

\*For use on cowpeas that are grown only for dry seed. Do not allow livestock to graze cowpea forage and do not harvest cowpea forage or hay for use as livestock feed.

**For control of *Liriomyza* leafminers and Spider mite.**

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

**IMPORTANT:** Apply Reaper ClearForm with ground application equipment or aircraft. For best control, apply Reaper ClearForm with ground application equipment. With aerial application, the resulting control of leafminers and spider mites could be less than with ground application.

| Pest                                       | Fl Oz/A     | Instructions   |
|--|-------------|--|
| <i>Liriomyza</i> leafminers<br>Spider mite | 8.0 to 16.0 | <ul style="list-style-type: none"> <li>Use 8.0 to 12.0 fl oz/A for low to moderate infestations and 13.0 to 16.0 fl oz/A for high infestations.</li> <li>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. (<b>See Use Restrictions.</b>)</li> </ul> |

**DRY BEANS CONT'D**

**Use Restrictions:**

- **PH:** **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.
- **Amount of Water:** **DO NOT** apply in less than 10.0 gallons of water per acre with ground application equipment. **DO NOT** apply in less than 5.0 gallons 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 ensure adequate coverage.
- **Maximum Amount per Application:** **DO NOT** apply more than 0.019 pound abamectin per acre (16.0 fluid ounces per acre Reaper ClearForm) per application.
- **Application Interval:** Wait at least 6 days before repeating application.
- **Number of Applications:** **DO NOT** make more than 2 sequential applications of Reaper ClearForm or any other foliarly applied abamectin containing product.
- **Maximum Amount per Calendar Year:** **DO NOT** apply more than 0.056 pound abamectin per acre (48.0 fluid ounces per acre Reaper ClearForm) per calendar year.

**FRUITING VEGETABLES (EXCEPT CUCURBITS) CROP GROUP 8-10**

Crops in this group are: African eggplant; bush tomato; bell pepper; cocona; currant tomato; eggplant; garden huckleberry; goli berry; groundcherry; marjania; naranjillo; okra; pea eggplant; pepino; pepper, non-bell; roselle; scarlet eggplant; sunberry; tomatillo; tomato; tree tomato; cultivars, varieties, and/or hybrids of these.

For control of Broad mite, Colorado potato beetle, *Liriomyza leafminers*, Potato psyllid, 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 optimum results. Inadequate coverage may result in reduced control.

**IMPORTANT:** Reaper ClearForm may be applied with ground application equipment or aircraft. For best control of Mites, apply Reaper ClearForm 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 ClearForm is aerially applied.

| Pest                        | Fl Oz/A     | Instructions   |
|-----------------------------|-------------|--|
| Broad mite                  | 8.0 to 16.0 | <ul style="list-style-type: none"> <li>• <b>Broad, russet, and Spider mite:</b> Apply when Mites first appear.</li> <li>• <b>Colorado potato beetle, Leafminers, Mites, and Thrips palmi:</b> Use 8.0 fl oz/A for low to moderate infestations and 16.0 fl oz/A for severe infestations.</li> <li>• <b>Thrips palmi:</b> Apply when Thrips are first observed.</li> <li>• <b>Tomato pinworm:</b> 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.</li> <li>• Repeat application as necessary to maintain control. <b>(See Use Restrictions)</b></li> <li>• <b>Note:</b> Reaper ClearForm 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 surfactant is recommended. <b>DO NOT</b> use binder or sticker-type surfactants.</li> </ul> |
| Colorado potato beetle      |             |  |
| <i>Liriomyza</i> leafminers | 16.0        |  |
| Potato psyllid              |             |  |
| Spider mites                |             |  |
| <i>Thrips palmi</i>         |             |  |
| Tomato psyllid              |             |  |
| Tomato russet mite          |             |  |
| Tomato pinworm              |             |  |

**FRUITING VEGETABLES (EXCEPT CUCURBITS) CROP GROUP 8-10 CONT'D**

**Use Restrictions:**

- **PH:** **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 gallons of water per acre with ground application equipment. **DO NOT** apply in less than 5.0 gallons 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.
- **Application Interval:** Wait at least 7 days before repeating application, but do not make more than 2 sequential applications of Reaper ClearForm or any other foliarly applied abamectin containing product.
- **Number of Applications:** **DO NOT** make more than 2 sequential applications of Reaper ClearForm or any other foliarly applied abamectin containing product.
- **Maximum Amount per Calendar Year:** **DO NOT** apply more than 0.056 pound abamectin per acre (48.0 fluid ounces per acre Reaper ClearForm) per calendar year.
- **Maximum Amount per Application:** **DO NOT** apply more than 0.019 pound abamectin per acre (16.0 fluid ounces per acre Reaper ClearForm) per application.

**GRAPES AND SMALL FRUIT VINE CLIMBING SUBGROUP (EXCEPT FLUZZY KIWIFRUIT) CROP SUBGROUP 13-07F**  
**Crops in this group are: Amur river grape; gooseberry; grape; kiwifruit, hardy; maypop; schisandra berry; cutlivers, varieties, and/or hybrids of these.**  
**For control of Pacific spider mite, Twospotted spider mite, Variegated leafhopper, Western grape leafhopper, Western grapeleaf skeletonizer, and Willamette spider mite,**  
 Reaper ClearForm 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 ClearForm must be applied to both sides of each row for maximum coverage.

| Pest   | Fl Oz/A                                | Instructions   |
|--|--|--|
| Pacific spider mite<br>Twospotted spider mite<br>Variegated leafhopper<br>Western grape leafhopper<br>Western grapeleaf skeletonizer<br>Willamette spider mite | 8.0 to 16.0 plus a nonionic surfactant | <ul style="list-style-type: none"> <li>• Use 8.0 to 12.0 fl oz/A for low to moderate infestations and 16.0 fl oz for severe infestations.</li> <li>• Repeat application, if needed. (See Use Restrictions)</li> <li>• <b>Note:</b> Reaper ClearForm 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. <b>DO NOT</b> use binder or sticker-type surfactants. Although Reaper ClearForm 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 ClearForm in combination with a non-ionic surfactant, carefully follow the <b>Directions for Use and Precautions</b> on the nonionic surfactant label and in official spray guides.</li> <li>• <b>Leafhoppers:</b> Apply Reaper ClearForm plus a nonionic surfactant using thorough spray coverage for contact knockdown only.</li> <li>• <b>Spider mites:</b> Apply when Mites first appear but before mites exceed 5-leaf.</li> <li>• <b>Western grapeleaf skeletonizer:</b> Apply Reaper ClearForm plus a nonionic surfactant when larvae are first observed. For optimum control, apply shortly after egg hatch.</li> </ul> |

**GRAPES AND SMALL FRUIT VINE CLIMBING SUBGROUP (EXCEPT FUZZY KIWI/FRUIT) CROP SUBGROUP 13-07F CONT'D**

**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 gallons of water per acre with conventional ground application equipment. When using an electrostatic sprayer, less than 50.0 gallons of water per acre may be used, however do not use less than 5.0 gallons of water per acre.
- Application is not permitted from onset of flowering until after petal fall is complete.
- **Maximum Amount per Application:** **DO NOT** apply more than 0.019 pound abamectin per acre (16.0 fluid ounces per acre Reaper ClearForm) per 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 ClearForm or any other foliarly applied abamectin containing product per calendar year.
- **Maximum Amount per Calendar Year:** **DO NOT** apply more than 0.038 pound abamectin per acre (32.0 fluid ounces per acre Reaper ClearForm) per calendar year.
- **Grazing:** **DO NOT** allow livestock to graze in treated vineyards.

**GUAVA**

**Crops in this group are: acerola, feijoa, guava, jaboticaba, passionfruit, starfruit, and wax jambu.**

**For control of 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.

| Pest                   | For Dilute Sprays <sup>a</sup><br>fl oz/100 gal | For Concentrate Sprays <sup>b</sup><br>fl oz/A | Instructions  |
|------------------------|---|--|---|
| Twospotted spider mite | 1.0 to 2.0                                      | 10.0 to 20.0 <sup>c</sup>                      | <ul style="list-style-type: none"> <li>• Apply Reaper ClearForm with a minimum of 0.20% horticultural spray oil (not a dormant oil) in the spray mixture or not less than 1.0 gal of oil/A (except when specified differently below).</li> <li>• Use 10.0 to 15.0 fl oz product/A for low to moderate infestations and 15.0 to 20.0 fl oz product/A for severe infestations.</li> <li>• Mites: Apply when mites first appear during spring, summer, and/or fall.</li> </ul> |

<sup>a</sup>The rate of Reaper ClearForm per 100 gallons is based on a volume of 1,000 gallons per acre dilute spray.

<sup>b</sup>For concentrate sprays, adjust the dosage to apply an amount per acre equal to that used in full cover dilute spray.

<sup>c</sup>Ground application: For best results, use 150 to 300 gallons per acre of spray mix with a minimum of 3.0 gallons per acre of horticultural oil (not a dormant oil) and apply at a ground speed of 1 to 1.5 mph.

**Use Restrictions:**

- **PHI:** **DO NOT** apply within 7 days of harvest
- **Application Method:** Ground application only.
- **Amount of Water:** **DO NOT** apply in less than 50.0 gallons of water per acre with conventional ground application equipment. When using an electrostatic sprayer, less than 50.0 gallons of water per acre may be used; however, do not use less than 5.0 gallons of water per acre.



**GUAVA CONT'D**

- **Maximum Amount per Application:** **DO NOT** apply more than 0.023 pound abamectin per acre (20.0 fluid ounces per acre Reaper ClearForm) per application.
- **Application Interval:** If a second application is necessary, wait at least 14 days before repeating application.
- **Number of Applications:** **DO NOT** make more than 3 applications of Reaper ClearForm or any other foliarly applied abamectin-containing product per calendar year.
- **Maximum Amount per Calendar Year:** **DO NOT** apply more than 0.07 pound abamectin per acre (60.0 fluid ounces per acre Reaper ClearForm) per calendar year.

**HERB (CROP SUBGROUP 19A)**

Crops in this subgroup are: Angelica, Balm, Basil, Borage, Burnet, Catnip, Chamomile, Chenill (dried), Chives, Chives (Chinese), Cilantro (leaf), Cleary, Coriander (leaf), Costmary, Culantro (leaf), Curry (leaf), Dill weed, Horseround, Hyssop, Lavender, Lemonrass, Louage (leaf), Marigold, Marjoram, Thyme, Wintergreen, Parsley (dried), Penneyroyal, Rosemary, Rue, Sage, Summer and Winter Savory, Sweet bay, Tansy, Tarragon, Thyme, Wintergreen, Woodruff, and Wormwood.

For control of *Liriomyza* leafminers and Spider mite.

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                                       | Fl Oz/A     | Instructions  |
|--|-------------|---|
| <i>Liriomyza</i> leafminers<br>Spider mite | 8.0 to 16.0 | <ul style="list-style-type: none"> <li>• Use 8.0 fl oz/A for low to moderate infestations and 16.0 fl oz/A for severe infestations.</li> <li>• Apply when adult leafminer flies or spider mites are first observed and repeat application, as necessary to maintain control. (See <b>Use Restrictions</b>)</li> <li>• Reaper ClearForm 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 for all crops in the Herb Crop Subgroup except chives. <b>DO NOT</b> use a surfactant when applying this product to chives.</li> <li>• <b>Note:</b> Although Reaper ClearForm 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 ClearForm in combination with a nonionic surfactant, carefully follow the <b>Directions for Use</b> and <b>Precautions</b> on the nonionic surfactant label and in official spray guides.</li> </ul> |

**Use Restrictions:**

- **PHI:** **DO NOT** apply within 14 days of harvest. For chives, do not apply within 7 days of harvest.
- **Application Method:** Apply with ground application equipment.
- **Amount of Water:** Use a minimum of 20.0 gallons of water per acre.
- **Application Interval:** Wait at least 7 days before repeating application.
- **Maximum Amount per Application:** **DO NOT** apply more than 0.019 pound abamectin per acre (16.0 fluid ounces per acre Reaper ClearForm) per application.
- **Number of Applications:** **DO NOT** make more than 2 applications of Reaper ClearForm or any other foliarly applied abamectin containing product per single cutting (harvest).
- **Maximum Amount per Calendar Year:** **DO NOT** apply more than 0.056 pound abamectin per acre (48.0 fluid ounces per acre Reaper ClearForm) per calendar year.

**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 ClearForm per acre should remain the same as for dilute sprays.

| Pest                   | Fl Oz/A     | Instructions  |
|------------------------|-------------|---|
| Twospotted spider mite | 8.0 to 16.0 | <ul style="list-style-type: none"> <li>• Apply Reaper ClearForm when Twospotted spider mites reach treatment thresholds.</li> <li>• For applications at 1/2 trellis growth (6 to 8 ft height) apply 8.0 to 16.0 fl oz/A in a minimum of 40.0 gal water/A.</li> <li>• For applications beyond 1/2 trellis growth, do not use less than 16.0 fl oz/A in a minimum of 100 gal water/A.</li> <li>• <b>Note:</b> Reaper ClearForm 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.</li> </ul> |

**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.
- **Maximum Amount per Application: DO NOT** apply more than 0.019 pound abamectin per acre (16.0 fluid ounces per acre Reaper ClearForm) per application.
- **Maximum Number of Applications: DO NOT** make more than 2 applications of Reaper ClearForm or any other foliarly applied abamectin containing product per calendar year.
- **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, lamnata), Arugula (Rocket), Cardoon, Celery, Celeriac, 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, Lirioniza 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.

**IMPORTANT:** Reaper ClearForm may be applied with ground application equipment or aircraft. For best control of Mites, apply Reaper ClearForm 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 ClearForm is aerially applied.

**LEAFY VEGETABLE (EXCEPT BRASSICA VEGETABLES) CROP GROUP 4 CONT'D**

| Pest  | Fl Oz/A                                | Instructions   |
|---|--|--|
| Carmine spider mite<br><i>Lirionymza leafminers</i><br>Twospotted spider mite | 8.0 to 16.0 plus a nonionic surfactant | <ul style="list-style-type: none"> <li>Use 8.0 to 12.0 fl oz/A for low to moderate infestations and 16.0 fl oz/A for severe infestation.</li> <li><b>Leafminers:</b> Apply when adult flies are first observed and repeat applications as needed to maintain control. (See <b>Use Restrictions</b>)</li> <li><b>Spider mites:</b> Apply when Mites first appear, and repeat as needed to maintain control. (See <b>Use Restrictions</b>)</li> <li><b>Note:</b> Reaper ClearForm 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. <b>DO NOT</b> use binder or sticker-type surfactants.</li> </ul> |

**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 transplantation.
- **Amount of Water:** **DO NOT** apply in less than 20.0 gallons of water per acre with ground application equipment. **DO NOT** apply in less than 5.0 gallons 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 0.015 pound abamectin per acre (16.0 fluid ounces per acre Reaper ClearForm) per application.
- **Application Interval:** Wait at least 7 days before repeating application.
- **Number of Applications:** **DO NOT** make more than 2 sequential applications of Reaper ClearForm or any other foliarly applied abamectin containing product.
- **Maximum Amount per Calendar Year:** **DO NOT** apply more than 0.056 pound abamectin per acre (48.0 fluid ounces per acre Reaper ClearForm) per calendar year.

**LYCHEE**

Crops in this group are: longan, lychee, pulasan, rambutan, and Spanish lime.

For control of *Lirionymza leafminers*, Thrips, Twospotted spider mites.

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.

**LYCHEE CONT'D**

| Pest  | For Dilute Sprays <sup>a</sup><br>fl oz/100 gal | For Concentrate Sprays <sup>b</sup><br>fl oz/A | Instructions   |
|---|---|--|--|
| <i>Liriomyza</i> leafminers<br>Thrips<br>Twospotted spider mite | 1.0 to 2.0                                      | 10.0 to 20.0 <sup>c</sup>                      | <ul style="list-style-type: none"> <li>Apply Reaper ClearForm with a minimum of 0.20% horticultural spray oil (not a dormant oil) in the spray mixture or not less than 1.0 gallon of oil/A (except when specified differently below).</li> <li>Use 10.0 to 15.0 fl oz product/A for low to moderate infestations and 15.0 to 20.0 fl oz product/A for severe infestations.</li> <li><b>Leafminers:</b> Apply to protect new growth during spring, summer, or fall.</li> <li><b>Mites:</b> Apply when mites first appear during spring, summer, and/or fall.</li> <li><b>Thrips:</b> Applications targeted for 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).</li> </ul> |

<sup>a</sup>The rate of Reaper ClearForm per 100 gallons is based on a volume of 1,000 gallons per acre dilute spray.  
<sup>b</sup>For concentrate sprays, adjust the dosage to apply an amount per acre equal to that used in full cover dilute spray.  
<sup>c</sup>Ground application: For best results, use 150 to 300 gallons per acre of spray mix with a minimum of 3.0 gallons per acre of horticultural oil (not a dormant oil) and apply at a ground speed of 1 to 1.5 mph.

**Use Restrictions:**

- **PHI:** **DO NOT** apply within **14** days of harvest.
- **Application Method:** Ground application only.
- **Amount of Water:** **DO NOT** apply in less than 50.0 gallons of water per acre with conventional ground application equipment. When using an electrostatic sprayer, less than 30.0 gallons of water per acre may be used; however, do not use less than 3.0 gallons of water per acre.
- **Maximum Amount per Application:** **DO NOT** apply more than 0.025 pound abamectin per acre (20.0 fluid ounces per acre Reaper ClearForm) per application.
- **Application Interval:** If a second application is necessary, wait at least 30 days before repeating application.
- **Number of Applications:** **DO NOT** make more than 2 applications of Reaper ClearForm or any other foliarly applied abamectin-containing product per calendar year.
- **Maximum Amount per Calendar Year:** **DO NOT** apply more than 0.046 pound abamectin per acre (40.0 fluid ounces per acre Reaper ClearForm) per calendar year.

**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                   | Fl Oz/A     | Instructions   |
|------------------------|-------------|--|
| Twospotted spider mite | 8.0 to 12.0 | <ul style="list-style-type: none"> <li>• Treat when Mites first appear.</li> <li>• For optimum control, a nonionic surfactant or organosilicone-based surfactant should be used at the manufacturer's recommended rate.</li> </ul> |

**MINT (Peppermint and Spearmint) CONT'D**

**Use Restrictions:**

- **PH:** **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 gallons of water per acre with ground application equipment. **DO NOT** apply in less than 5.0 gallons 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 0.042 pound abamectin per acre (12.0 fluid ounces per acre Reaper ClearForm) per application.
- **Application Interval:** Wait at least 7 days before repeating application.
- **Number of Applications:** **DO NOT** make more than 2 sequential applications of Reaper ClearForm or any other foliarly applied abamectin containing product and do not apply more than 3 applications of Reaper ClearForm or any other foliarly applied abamectin containing product per calendar year.
- **Maximum Amount per Calendar Year:** **DO NOT** apply more than 0.042 pound abamectin per acre (36.0 fluid ounces per acre Reaper ClearForm) per calendar year.
- **Grazing:** **DO NOT** allow livestock to graze or feed treated foliage to livestock.

**ONION, BULB CROP SUBGROUP 3-07A**

Crops in this group are: **Fritillaria, bulb; Garlic, bulb; Garlic, great-headed, bulb; Garlic, sement, bulb; Lily, bulb; Onion, bulb, including daylily, bulb; Onion, Chinese, bulb; Onion, pearl; Onion, potato, bulb; Shallot, bulb; Cultivars, varieties, and/or hybrids of these.**

**For control of *Liriomyza* Leafminers and Thrips**

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

**IMPORTANT:** Apply Reaper ClearForm with ground application equipment or aircraft. For best control, apply Reaper ClearForm with ground application equipment. With aerial application, the resulting control of Leafminers and Thrips could be less than with ground application.

| Pest                        | Fl Oz/A     | Instructions   |
|-----------------------------|-------------|--|
| <i>Liriomyza</i> leafminers | 8.0 to 16.0 | <ul style="list-style-type: none"> <li>• Use 8.0 to 12.0 fl oz/A for low to moderate infestations and 13.0 to 16.0 fl oz/A for high infestations.</li> <li>• <b>Leafminers:</b> Apply when adult Leafminer flies are first observed and repeat application, as needed, to maintain control within constraints of a sound resistance management program. <b>(See Use Restrictions)</b></li> <li>• <b>Thrips:</b> Apply in a Thrips management program and when Thrips are at economic threshold.</li> <li>• Repeat application, as needed, to maintain control within constraints of a sound resistance management program. <b>(See Use Restrictions)</b></li> <li>• <b>DO NOT</b> use Reaper ClearForm as a rescue treatment for Thrips control.</li> <li>• <b>Note:</b> Add a non-ionic activator type wetting, spreading and/or penetrating adjuvant approved for use on bulb onion. <b>DO NOT</b> use binder sticker type adjuvants. Tank mixing with products that have binder sticker type formulations can reduce Reaper ClearForm performance.</li> </ul> |
| Thrips                      |             |  |

**ONION, BULB CROP SUBGROUP 3-07A CONT'D**

**Use Restrictions:**

- **PH:** **DO NOT** apply within 30 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 gallons of water per acre with ground application equipment. **DO NOT** apply in less than 5.0 gallons 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 ensure adequate coverage.
- **Maximum Amount per Application:** **DO NOT** apply more than 0.019 pound abamectin per acre (16.0 fluid ounces per acre Reaper ClearForm) per application.
- **Application Interval:** Wait at least 7 days before repeating application.
- **Number of Applications:** Make 2 consecutive applications of Reaper ClearForm, then rotate to a chemistry with a different mode of action. Make at least 2 applications of a chemistry with a different mode of action before making additional Reaper ClearForm applications. **DO NOT** make more than 2 sequential applications of Reaper ClearForm or any other foliarly applied abamectin containing product.
- **Maximum Amount per Calendar Year:** **DO NOT** apply more than 0.056 pound abamectin per acre (48.0 fluid ounces per acre Reaper ClearForm) per calendar year.

**ONION, GREEN CROP SUBGROUP 3-07B**

Crops in this group are: chive, fresh leaves; Chinese, fresh leaves; *Elegans* hosta; fritillaria, leaves; kurrat; lady's leak; leak; leak, wild; onion, Bell's; bunching; onion, fresh; onion, green; onion, macrostem; onion, tree, tops; onion, Welsh, tops; shallot, fresh leaves; cultivars, varieties, and/or hybrids of these.

**For control of *Liriomyza* leafminers and Thrips.**

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

**Note:**

- Apply Reaper ClearForm with ground application equipment or aircraft.
- For best control apply Reaper ClearForm with ground application equipment. With aerial application, the resulting control of leafminers and thrips could be less than with ground application.

| Pest                                  | Fl Oz/A     | Instructions  |
|---------------------------------------|-------------|---|
| <i>Liriomyza</i> leafminers<br>Thrips | 8.0 to 16.0 | <ul style="list-style-type: none"> <li>• Use 8.0 to 12.0 fl oz/A for low to moderate infestations and 13.0 to 16.0 fl oz/A for high infestations.</li> <li>• <b>Leafminers:</b> Apply when adult leafminer flies are first observed and repeat application, as needed, to maintain control within constraints of a sound resistance management program. (<b>See Use Restrictions.</b>)</li> <li>• <b>Thrips:</b> Apply in a thrips management program and when thrips are at economic threshold. Repeat application, as needed, to maintain control within constraints of a sound resistance management program. (<b>See Use Restrictions.</b>) <b>DO NOT</b> use Reaper ClearForm as a rescue treatment for thrips control.</li> <li>• <b>Note:</b> Add a non-ionic activator type wetting, spreading and/or penetrating adjuvant approved for use on bulb onion. <b>DO NOT</b> use binder or sticker type adjuvants. Tank-mixing with products that have binder or sticker type formulations can reduce Reaper ClearForm performance. (<b>See Use Information and Use Restrictions.</b>)</li> </ul> |

**ONION, GREEN CROP SUBGROUP 3-07B CONT'D**

**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 or California.
- **Amount of Water:** **DO NOT** apply in less than 20.0 gallons of water per acre with ground application equipment. **DO NOT** apply in less than 5.0 gallons 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 ensure adequate coverage.
- **Maximum Amount per Application:** **DO NOT** apply more than 0.019 pound abamectin per acre (16.0 fluid ounces per acre Reaper ClearForm) per application.
- **Application Interval:** Wait at least 7 days before repeating application.
- **Number of Applications:** Make 2 consecutive applications of Reaper ClearForm then rotate to a chemistry with a different mode of action. Make at least 2 applications of a chemistry with a different mode of action before making additional Reaper ClearForm applications. **DO NOT** make more than 2 sequential applications of Reaper ClearForm or any other foliarly applied abamectin-containing product.
- **Maximum Amount per Calendar Year:** **DO NOT** apply more than 0.076 pound abamectin per acre (64.0 fluid ounces per acre Reaper ClearForm) per calendar year.

**PAPAYA**

Crops in this group are: black sapote, canistel, mamey sapote, papaya, saponilla, star apple.  
For control of Twospotted spider mites.

| Pest                   | Dilute Sprays <sup>a</sup><br>Fl Oz/100 Gal | Concentrate Sprays <sup>b</sup><br>Fl Oz/A | Instructions   |
|------------------------|---|--|--|
| Twospotted spider mite | 1.0 to 2.0                                  | 10.0 to 20.0 <sup>c</sup>                  | <ul style="list-style-type: none"> <li>• Apply Reaper ClearForm with a minimum of 0.20% horticultural spray oil (not a dormant oil) in the spray mixture or not less than 1.0 gal oil/A (except when specified differently below).</li> <li>• Use 10.0 to 15.0 fl oz product /A for low to moderate infestations and 15.0 to 20.0 fl oz product/A for severe infestations.</li> <li>• <b>Mites:</b> Apply when mites first appear during spring, summer, and/or fall.</li> </ul> |

<sup>a</sup>The rate of Reaper ClearForm per 100 gallons is based on a volume of 1,000 gallons per acre dilute spray.  
<sup>b</sup>For concentrate sprays, adjust the dosage to apply an amount per acre equal to that used in full cover dilute spray.  
<sup>c</sup>Ground application. For best results, use 150 to 300 gallons per acre of spray mix with a minimum of 3.0 gallons per acre of horticultural oil (not a dormant oil) and apply at a ground speed of 1 to 1.5 mph.

**Use Restrictions:**

- **DO NOT** apply to mango.
- **PHI:** **DO NOT** apply within 3 days of harvest.
- **Application Method:** Ground application only.
- **Amount of Water:** **DO NOT** apply in less than 50.0 gallons of water per acre with conventional ground application equipment. When using an electrostatic sprayer, less than 50.0 gallons of water per acre may be used; however, do not use less than 5.0 gallons of water per acre.
- **Maximum Amount per Application:** **DO NOT** apply more than 0.025 pound abamectin per acre (20.0 fluid ounces per acre Reaper ClearForm) per application.

**PAPAYA CONT'D**

- **Application Interval:** If a second application is necessary, wait at least 14 days before repeating application.
- **Number of Applications:** **DO NOT** make more than 3 applications of Reaper ClearForm or any other foliarly applied abamectin-containing product per calendar year.
- **Maximum Amount per Calendar Year:** **DO NOT** apply more than 0.070 pound abamectin per acre (60.0 fluid ounces per acre Reaper ClearForm) per calendar year.

**PINEAPPLE**

**For control of Twospotted spider mite.**

| Pest                   | Fl Oz/A      | Instructions  |
|------------------------|--------------|---|
| Twospotted spider mite | 10.0 to 20.0 | • Use 10.0 to 15.0 fl oz/A for low to moderate infestations and 15.0 to 20.0 fl oz/A for high infestations. |

**Use Restrictions:**

- **PHI:** **DO NOT** apply within 16 weeks of harvest.
- **Application Method:** Ground application only.
- **Amount of Water:** **DO NOT** apply in less than 50.0 gallons of water per acre with conventional ground application equipment. When using an electrostatic sprayer, less than 50.0 gallons of water per acre may be used; however, do not use less than 5.0 gallons of water per acre.
- **Maximum Amount per Application:** **DO NOT** apply more than 0.025 pound abamectin per acre (20.0 fluid ounces per acre Reaper ClearForm) per application.
- **Application Interval:** If a second application is necessary, wait at least 7 days before repeating application.
- **Number of Applications:** **DO NOT** make more than 2 applications of Reaper ClearForm or any other foliarly applied abamectin-containing product per calendar year.
- **Maximum Amount per Calendar Year:** **DO NOT** apply more than 0.046 pound abamectin per acre (40.0 fluid ounces per acre Reaper ClearForm) per calendar year.

**POME FRUIT CROP GROUP 11-10**

Crops in this group are: apple; azarole; crabapple; loquat; mayhaw; medlar; pear; pear, Asian; quince; quince, Chinese; quince, Japanese; tejuco; cultivars, varieties, and/or hybrids of these.  
**For control of European red mite, Michigan spider mite, Pear psylla, Pear rust mite, Pear rust mite, Teniliform leafminer, Twospotted spider mite, White apple leafhopper, and Yellow mite.**  
Reaper ClearForm 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 ClearForm 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 ClearForm plus horticultural spray oil fewer than 14 days before or after applying Captan® can result in phytotoxicity and crop loss.



**POME FRUIT CROP GROUP 11-10 CONT'D**

| Pest  | Dilute Sprays <sup>a</sup><br>Fl Oz/100 Gal | Concentrate Sprays <sup>b</sup><br>Fl Oz/A | Instructions   |
|---|---|--|--|
| European red mite<br>McDaniel spider mite<br>Pear psylla<br>Pear rust mite<br>Teniform leafminer<br>Twospotted spider mite<br>White apple leafhopper<br>Yellow mite | 2.5 to 5.0                                  | 10.0 to 20.0                               | <ul style="list-style-type: none"> <li>Apply Reaper ClearForm when spider mite or insect thresholds are reached.</li> <li>A second application may be made if needed to maintain control. <b>(See Use Restrictions.)</b></li> <li>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 horticultural spray oil/A in the final finished spray.</li> </ul> |

<sup>a</sup>The rate of Reaper ClearForm per 100 gallons is based on a volume of 400 gallons per 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 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 10.0 fluid ounces per acre 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 gallons of water per acre.
- Application is not permitted from onset of flowering until after petal fall is complete.
- **Maximum Amount per Application: DO NOT** apply more than 0.023 pound abamectin per acre (20.0 fluid ounces per acre Reaper ClearForm) per 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 ClearForm or any other foliarly applied abamectin-containing product per calendar year.
- **Maximum Amount per Calendar Year: DO NOT** apply more than 0.047 pound abamectin per acre (40.0 fluid ounces per acre Reaper ClearForm) per calendar year.
- **Grazing: DO NOT** allow livestock to graze in treated orchards.

**STONE FRUIT CROP GROUP 12-12**

Crops in this group are: apricot, apricot, Japanese, capulin; cherry, black, cherry, Nanking, cherry, sweet, cherry, tart, Jujube, Chinese, nectarine; peach; plum; plum, American; plum, beach; plum, Canada; plum, cherry; plum, Chickasaw; plum, Damsel; plum, Japanese; plum, Klamath; plum, prune; plumcot; sloe; cultivars, varieties, and/or hybrids of these.

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

Reaper ClearForm 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.

**STONE FRUIT CROP GROUP 12-12 CONT'D**

| Pest   | Dilute Sprays <sup>a</sup><br>Fl Oz/100 Gal | Concentrate Sprays <sup>b</sup><br>Fl Oz/A | Instructions   |
|--|---|--|--|
| European red mite<br>Pacific spider mite<br>Twospotted spider mite | 2.5 to 5.0                                  | 10.0 to 20.0                               | <ul style="list-style-type: none"> <li>• Apply when Mites first appear.</li> <li>• A second application may be made, if needed, to maintain control. (See Use Restrictions)</li> <li>• Always apply Reaper ClearForm 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).</li> <li>• NOTE: 1) A nonionic surfactant that spreads on and/or penetrates the leaf cuticle can improve insect control. Although Reaper ClearForm has been tested in combination with non-ionic surfactants for safety to stone fruit, it is impossible to test on all 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 ClearForm 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.</li> <li>• Use nonionic surfactants at the manufacturer's recommended rate.</li> <li>• 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 horticultural spray oil/A in the final finished spray.</li> </ul> |

<sup>a</sup> The rate of Reaper ClearForm per 100 gallons is based on the volume of 400 gallons per acre dilute spray.

<sup>b</sup> 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 spray as would be required for the dilute sprays to the same orchard/grove. This may result in use of less than 10.0 fluid ounces per acre 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 gallons of water per acre.
- **Maximum Amount per Application:** **DO NOT** apply more than 0.023 pound abamectin per acre (20.0 fluid ounces per acre Reaper ClearForm) per acre per application.
- **Application Interval:** If a second application is needed, wait at least 21 days before repeating application.
- Application is not permitted from onset of flowering until after petal fall is complete.
- **Number of Applications:** **DO NOT** make more than 2 applications of Reaper ClearForm or any other foliarly applied abamectin containing product per calendar year.
- **Maximum Amount per Calendar Year:** **DO NOT** apply more than 0.047 pound abamectin per acre (40.0 fluid ounces per acre Reaper ClearForm) per calendar year.
- **Grazing:** **DO NOT** allow livestock to graze in treated orchards.

**STRAWBERRIES. LOW GROWING BERRY CROP SUBGROUP 13-07G**  
 Crops in this group are: bearberry; bilberry; blueberry; lowbush; cloudberry; cranberry; lingonberry; muntries; partridgeberry; strawberry; cultivars, varieties, and/or hybrids of these.

**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   | FLOZ/A | Instructions   |
|--|--------|--|
| Strawberry spider mite<br>Twospotted spider mite | 16.0   | <ul style="list-style-type: none"> <li>• Make 2 applications 7 to 10 days apart when Mites first appear. Repeat this application sequence, if needed, to maintain control. (<b>See Use Restrictions</b>)</li> <li>• <b>Note:</b> Reaper ClearForm 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.</li> </ul> |

**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 gallons of water per acre with conventional ground application equipment. When using electro-static sprayers do not apply in less than 10.0 gallons of water per acre.
- **Maximum Amount per Application: DO NOT** apply more than 0.019 pound abamectin per acre (16.0 fluid ounces per acre Reaper ClearForm) per application.
- **Application Interval:** Wait at least 21 days after the second application before repeating application.
- **Maximum Amount per Calendar Year: DO NOT** apply more than 0.075 pound abamectin per acre (64.0 fluid ounces per acre Reaper ClearForm) per calendar year.

**TREE NUTS CROP GROUP 14-12**

Crops in this group are: African nut-tree; almond; beechnut; Brazil nut; Brazilian pine; bunya; bur oak; butternut; Cajou nut; candlenut; cashew; chestnut; chinquapin; coconut; coquito nut; dika nut; ginkgo; Guiana chestnut; hazelnut; hickory nut; Japanese horse-chestnut; macadamia nut; mongongo nut; monkey-pot; monkey puzzle nut; Okari nut; Pachira nut; peach palm nut; pecan; pequi; Pili nut; pine nut; pistachio; Sapucaia nut; tropical almond; walnut, black; walnut, English; yellowhorn; cultivars, varieties, and/or hybrids of these.

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

**TREE NUTS CROP GROUP 14-12 CONT'D**

| Pest   | Dilute Sprays <sup>a</sup><br>Fl Oz/100 Gal | Concentrate Sprays <sup>b</sup><br>Fl Oz/A | Instructions   |
|--|---|--|--|
| European red mite<br>Pacific spider mite<br>Strawberry spider mite<br>Twospotted spider mite | 2.5 to 5.0                                  | 10.0 to 20.0                               | <ul style="list-style-type: none"> <li>Always use Reaper ClearForm in combination with a horticultural spray oil (not a dormant oil, approved for use on tree nuts. 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 horticultural spray oil/A in the final finished spray.</li> <li>Apply Reaper ClearForm when Spider mites first appear. Residual Spider mite control is greater from spray deposits on newer leaves compared to older leaves.</li> <li>A second application may be made, if needed, to maintain control. <b>(See Use Restrictions.)</b></li> </ul> |

<sup>a</sup> The rate of Reaper ClearForm per 100 gallons based on a volume of 400 gallons per acre dilute spray.  
<sup>b</sup> 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 that would be required for the dilute sprays to the same orchard/grove. This may result in use of less than 10.0 fluid ounces per acre 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 gallons of water per acre.
- Application is not permitted from onset of flowering until after petal fall is complete.
- **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 0.023 pound abamectin per acre (20.0 fluid ounces per acre Reaper ClearForm) per application.
- **Applications per Calendar Year:** DO NOT make more than 2 applications of Reaper ClearForm or any other foliarly applied abamectin containing product per calendar year.
- **Maximum Amount per Calendar Year:** DO NOT apply more than 0.047 pound abamectin per acre (40.0 fluid ounces per acre Reaper ClearForm) per calendar year.
- **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, Arichoke (Chinese), Artichoke Jerusalem, Camna edible, Cassava (bitter and sweet), Chayote (root), Chufa, Dasheen, Ginger, Leren, Potato, Sweet Potato, Taniar, 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 ClearForm may be applied using ground application equipment or aircraft. For best control of Mites, apply Reaper ClearForm 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 ClearForm is aerially applied.

**TUBEROUS AND CORM VEGETABLES CROP SUBGROUP 1C CONT'D**

| Pest  | Fl Oz/A     | Instructions  |
|---|-------------|---|
| Colorado potato beetle<br><i>Liriomyza leafminers</i><br>Potato psyllid<br>Spider mites | 8.0 to 16.0 | <ul style="list-style-type: none"> <li>• Use 8.0 to 12.0 fl oz/A for low to moderate infestations and 16.0 fl oz/A for severe infestations.</li> <li>• 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.</li> <li>• Insect and Spider mite control may be reduced if Reaper ClearForm is used in combination with a sticker or binder type product such as Initiate® 720 Flowable Fungicide.</li> <li>• <b>Colorado potato beetle:</b> Make the first application after approximately 50% of the egg masses have hatched and larvae are present. <b>DO NOT</b> make more than 2 applications are needed, limit them to a single Colorado potato beetle generation/crop. <b>DO NOT</b> make more than 2 applications/crop. (<b>See Use Restrictions</b>)</li> <li>• <b><i>Liriomyza leafminers:</i></b> Make the first application when adult flies are first observed. Repeat applications as needed to maintain control. (<b>See Use Restrictions</b>)</li> <li>• <b>Spider mites:</b> Make the first application when Mites first appear. Repeat application as needed to maintain control. (<b>See Use Restrictions</b>)</li> </ul> |

**Use Restrictions:**

- **PHI: DO NOT** apply within 14 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 gallons of water per acre with ground application equipment. **DO NOT** apply in less than 5.0 gallons 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 0.019 pound abamectin per acre (16.0 fluid ounces per acre) per application.
- **Application Interval:** Wait at least 7 days before repeating application.
- **Number of Applications: DO NOT** make more than 2 sequential applications of Reaper ClearForm or any other foliarly applied abamectin containing product.
- **Maximum Amount per Crop: DO NOT** apply more than 0.038 pound abamectin per acre (32.0 fluid ounces per acre Reaper ClearForm) per crop for Spider mite or Colorado potato beetle control. **DO NOT** apply more than 0.056 pound abamectin per acre (48.0 fluid ounces per acre Reaper ClearForm) per crop for Leafminer control.
- **Grazing: DO NOT** allow livestock to graze or feed treated foliage to livestock.

**ORNAMENTALS**  
**Shadehouse, Greenhouse, Field-grown ornamentals, Christmas trees, and Other woody ornamentals**

| Pest   | Fl Oz/100 Gal | Instructions   |
|--|---------------|--|
| Mites <sup>1</sup> :<br>Carmine spider mite<br>Eriophyid mites:<br>Bud mites<br>Rust<br>European red mite<br>Southern red mite<br>Spruce spider mite<br>Tarsanemid mites <sup>3</sup> :<br>Cyclamen<br>Broad mites<br>Twospotted spider mite | 4.0           | Repeat at 7-day intervals or as necessary to maintain control.<br>For control of Mining larvae, make the application when adults are beginning to lay eggs in the new foliage.<br>For suppression of pest populations, young immatures must be contacted by the spray. |
| Liriomyza leafminers <sup>2</sup>  | 8.0           |  |
| Boxwood leafminer  | 8.0           |  |
| Aphids<br>Thrips<br>Whiteflies   | 8.0           |  |

**Product Information:** Residual control of pests may be enhanced with the addition of a horticultural spray oil at 0.5 to 1.0% of the spray volume on field-grown Woody ornamentals, landscape plants, and Christmas trees. Repeat application as necessary, but no sooner than 7 days to maintain control. Some plants are sensitive to oils and so without prior experience, the user should spray a small number of plants and observe plants for 2 weeks before spraying the remaining plants. Excessive cold or warm temperatures may increase the chance of plant damage following application with oils. Carefully read and follow directions on the oil label and do not exceed maximum rates listed on either label.

**Product Information Per Application:** Use sufficient water to obtain uniform plant coverage. Refer to the **Resistance Management** section and the **Use Restrictions** section for additional information.

- 1 Apply, for example, in 200 to 400 gallons of water per acre. In volumes of water below 200 gallons, use a minimum of 8.0 fluid ounces per acre. If more than 400 gallons of water per acre are required for good plant coverage, apply a maximum rate of 16.0 fluid ounces per acre. For example, if 650 gallons of water are required, use 2.5 fluid ounces per 100 gallons.
- 2 Apply, for example, in 100 to 200 gallons of water per acre. In volumes of water below 100 gallons, use a minimum of 8.0 fluid ounces per acre. If more than 200 gallons of water per acre are required for good plant coverage, apply a maximum rate of 16.0 fluid ounces per acre. For example, if 400 gallons of water are required, use 4.0 fluid ounces per 100 gallons.
- 3 For Tarsanemid mites, repeat applications to newly developing tissue may be necessary to maintain control.

**Use Restrictions:**

- **DO NOT** apply less than 8.0 fluid ounces or more than 16.0 fluid ounces per acre.
- **DO NOT** use Reaper ClearForm for suppression of Aphids, Whiteflies, and Thrips on roses, chrysanthemums, and gerbera. These ornamentals are primary hosts of Mites and *Liriomyza* leafminers for which Reaper ClearForm applications should be targeted. Additional applications of Reaper ClearForm to suppress Aphids, Thrips, and Whiteflies on these plants will increase the selection pressure on Mites and *Liriomyza* leafminers which may result in greater tolerance to Reaper ClearForm among these pests.

**ORNAMENTALS CONT'D**

- **DO NOT** apply Reaper ClearForm through any type of irrigation system.
- Not for aerial use.
- **DO NOT** use in citrus nurseries.
- Reaper ClearForm has been evaluated for phytotoxicity on a wide range of ornamental plants. However, since all combinations or sequences of pesticide sprays including surfactants and adjuvants have not been tested, it is recommended that a small area be sprayed first to make certain that no phytotoxicity occurs. Phytotoxicity has been observed following the use of Reaper ClearForm on certain species of ferns (e.g., *Adiantum* spp.) and Shasta daisy (*L. eucanthemum* spp.). It is therefore recommended that Reaper ClearForm not be used on ferns or Shasta daisy.

**STORAGE AND DISPOSAL**

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

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

**PESTICIDE DISPOSAL:** Pesticide spray mixture or rinseate that cannot be used should be disposed of in a landfill approved for pesticides. Improper disposal of excess pesticide spray mixture or rinseate 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 HANDLING: Nonrefillable container.** Do not reuse or refill this container. It may be allowable to temporarily hold rinseate 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](http://www.acrecycle.org). If not recycled, then puncture and dispose of in a sanitary landfill, or incineration.

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 rinseate into application equipment or a mix tank or store rinseate 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. Hold container upside down over application equipment or mix tank or collect rinseate 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.**

**CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY**

**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 user 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.

Follow the Directions for Use of this product carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop or other plant injury, ineffectiveness, or other unintended consequences may result from such risks as weather or crop conditions, mixture with other chemicals not specifically identified in this product's label, or use of this product contrary to the label instructions, all of which are beyond the control of LOVELAND PRODUCTS, INC. and the seller. The buyer or user of this product assumes all such inherent risks.

Subject to the foregoing inherent risks, LOVELAND PRODUCTS, INC. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use when the product is used in strict accordance with such Directions for Use under normal conditions of use. EXCEPT AS WARRANTED IN THIS LABEL AND TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THIS PRODUCT IS SOLD "AS IS," AND LOVELAND PRODUCTS, INC. MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ELIGIBILITY OF THIS PRODUCT FOR ANY PARTICULAR TRADE USAGE.

IN THE UNLIKELY EVENT THAT BUYER OR USER BELIEVES THAT LOVELAND PRODUCTS, INC. HAS BREACHED A WARRANTY CONTAINED IN THIS LABEL AND TO THE EXTENT REQUIRED BY APPLICABLE LAW, BUYER OR USER MUST SEND WRITTEN NOTICE OF ITS CLAIM TO THE FOLLOWING ADDRESS: LOVELAND PRODUCTS, INC., ATTENTION: LAW DEPARTMENT, P.O. BOX 1286, GREELEY, CO 80632-1286.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE BUYER'S OR USER'S EXCLUSIVE REMEDY FOR ANY INJURY, LOSS, OR DAMAGE RESULTING FROM THE HANDLING OR USE OF THIS PRODUCT, INCLUDING BUT NOT LIMITED TO CLAIMS OF BREACH OF WARRANTY OR CONTRACT, NEGLIGENCE, STRICT LIABILITY, OR OTHER TORTS, SHALL BE LIMITED TO ONE OF THE FOLLOWING, AT THE ELECTION OF LOVELAND PRODUCTS, INC. OR THE SELLER: DIRECT DAMAGES NOT EXCEEDING THE PURCHASE PRICE OF THE PRODUCT OR REPLACEMENT OF THE PRODUCT. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, LOVELAND PRODUCTS, INC. AND THE SELLER SHALL NOT BE LIABLE TO THE BUYER OR USER OF THIS PRODUCT FOR ANY CONSEQUENTIAL, SPECIAL, OR INDIRECT DAMAGES, OR DAMAGES IN THE NATURE OF A PENALTY.

ClearForm, Initiate and Reaper are registered trademarks of Loveland Products, Inc.



**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**

# Reaper ClearForm SUPPLEMENTAL LABEL

**ACTIVE INGREDIENT:**

|  |                |
|--|----------------|
| Abamectin: (CAS No. 65195-56-4 and No. 65195-55-3) ..... | 2.0%           |
| OTHER INGREDIENTS: .....                                 | 98.0%          |
| <b>TOTAL.....</b>  | <b>100.00%</b> |

1.0 gallon contains 0.15 pound abamectin

**KEEP OUT OF REACH OF CHILDREN**

## CAUTION

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.)

**This label expires and must not be distributed or used after February 1, 2019.**

| <b>FIRST AID</b>  |  |
|---|--|
| <b>If inhaled:</b>  | <ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>  |
| <b>If on skin or clothing:</b>  | <ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15 to 20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>   |
| <b>If in eyes:</b>  | <ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>   |
| <b>If swallowed:</b>  | <ul style="list-style-type: none"> <li>• Immediately call a poison control center or doctor for treatment advice.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul> |
| Have the product container or label with you when calling a poison control center or doctor or going for treatment.   |  |
| For general information on product use, etc., call the National Pesticides Information Center at 1-800-858-7378.<br><b>FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-866-944-8565.</b> |  |

EPA Reg. No. 34704-1078

EPA Est. No. \_\_\_\_\_

Net Contents 1.0 GAL (3.78 L)

**It is a violation of Federal law to use this product in a manner inconsistent with its labeling.****This supplemental label must be in possession of the user at the time of application.****Read the label affixed to the container for Reaper ClearForm before applying.****Use of Reaper ClearForm according to this labeling is subject to the use precautions and limitations imposed by the label affixed to the container for Reaper ClearForm.**

**Reaper ClearForm Supplemental Label  
EPA REG. NO. 34704-1078**

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

**CAUTION**

Harmful if swallowed. Causes moderate eye irritation. **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 skin contact may cause allergic reactions in some individuals.

**DIRECTIONS FOR USE  
RESTRICTED USE PESTICIDE**

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 made out of: barrier laminate or butyl rubber  $\geq$  14mils,
- Chemical-resistant footwear plus socks,
- Protective eyewear,
- Chemical-resistant headgear for overhead exposure.

**NON-AGRICULTURAL USE REQUIREMENTS**

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

**Do not reenter treated areas until sprays have dried.**

**Resistance Management**

Some insect or mite pests are known to develop resistance to products after repeated use. Because resistance development cannot be predicted, the use of this product should conform to sound resistance management strategies established for the crop and use area. Loveland Products, Inc.

**Reaper ClearForm Supplemental Label**  
**EPA REG. NO. 34704-1078**

encourages responsible product stewardship to ensure effective long-term control of the insects or mites on this label.

Reaper ClearForm contains a Group 6 miticide/insecticide (abamectin). Insect or mite biotypes with acquired or inherent resistance to Group 6 miticides/insecticides may eventually dominate the pest population if Group 6 miticides/insecticides are used repeatedly as the predominant method of control for targeted species. This may result in partial or total loss of control of those species by Reaper ClearForm or other Group 6 miticides/insecticides.

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

**In order to maintain susceptibility to this class of chemistry:**

- Avoid using Group 6 miticides/insecticides exclusively for season long control of insect or mite species with more than one generation per calendar year.
- For insect or mite species with successive or overlapping generations, apply Reaper ClearForm or other Group 6 miticides/insecticides using a “treatment window” approach. A treatment window is a period of time as defined by the stage of crop development and/or the biology of the pests of concern. Within the treatment window, depending on the length of residual activity, there may either be single or consecutive applications (seed treatment, soil, foliar, unless otherwise stated) of the Group 6 miticides/insecticides. **DO NOT** exceed the maximum Reaper ClearForm allowed per calendar year.
- Following a treatment window of Group 6 miticides/insecticides, rotate to a treatment window of effective products with a different mode of action before making additional applications of Group 6 miticides/insecticides.
- A treatment window rotation, along with other IPM practices for the crop and use area, is considered an effective strategy for preventing or delaying a pest’s ability to develop resistance to these classes of chemistry.
- If resistance is suspected, do not reapply Reaper ClearForm or other Group 6 miticides/insecticides.

**Other Insect or Mite Resistance Management (IRM) Practices**

- Incorporate IPM techniques into your insect or mite control program.
- Monitor treated insect or mite populations for loss of field efficacy.
- Use tank-mixtures or premixes with miticides/insecticides from a different target site of action group as long as the involved products are all registered for the same crop outlet and effective rates are applied.

**For additional information on Insect or Mite Resistance Management:**

- Contact your local extension specialist, certified crop advisor and/or product manufacturer for additional insect resistance management recommendations.
- Visit the Insecticide Resistance Action Committee (IRAC) on the web at <http://www.irac-online.org/>.

Reaper ClearForm Supplemental Label  
EPA REG. NO. 34704-1078

CROP USE DIRECTIONS

BEAN, DRY AND SUCCULENT

**Crops:** *Cicer arietinum* (chickpea, garbanzo bean); *Lupinus* spp. (including sweet lupine, white sweet lupine, white lupine, and grain lupine); *Phaseolus* spp. (including kidney bean, lima bean, mung bean, navy bean, pinto bean, snap bean, and waxbean); *Vicia faba* (broad bean, fava bean); *Vigna* spp. (including asparagus bean, blackeyed pea and cowpea\*)

\*For use on cowpeas that are grown only for dry seed. **DO NOT** allow livestock to graze cowpea forage and do not harvest cowpea forage or hay for use as livestock feed.

**For control of Liriomyza leafminers and Spider Mites.**

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

**Note:**

- Apply Reaper ClearForm with ground application equipment or aircraft.
- For best control, apply Reaper ClearForm with ground application equipment. With aerial application, the resulting control of leafminers and spider mites could be less than with ground application.

| Pest                        | Fl Oz/A     |
|-----------------------------|-------------|
| <i>Liriomyza</i> leafminers | 8.0 to 16.0 |
| Spider mites                |             |

**Instructions:**

- Use 8.0 to 12.0 fluid ounces per acre for low to moderate infestations and 13.0 to 16.0 fluid ounces per acre for high infestations.
- **Leafminers and Spider Mites:** 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 10.0 gallons water per acre with ground application equipment. **DO NOT** apply in less than 5.0 gallons 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 ensure adequate coverage.
- **Maximum Amount per Application: DO NOT** apply more than 0.019 pound abamectin per acre (or 16.0 fluid ounces per acre Reaper ClearForm) per application.
- **Application Interval:** Wait at least 6 days before repeating application.
- **Number of Applications: DO NOT** make more than 2 sequential applications of Reaper ClearForm or any other foliarly applied abamectin-containing product.
- **Maximum Amount per Calendar Year: DO NOT** apply more than 0.056 pound abamectin per acre (or 48.0 fluid ounces per acre Reaper ClearForm) per calendar year.

**Reaper ClearForm Supplemental Label  
EPA REG. NO. 34704-1078**

**CITRUS FRUIT CROP GROUP 10-10**

**Crops in this group are: Australian desert lime; Australian finger-lime; Australian round lime; Brown River finger lime; calamondin; citron; citrus hybrids; grapefruit; Japanese summer grapefruit; kumquat; lemon; lime; Mediterranean mandarin; mount white lime; New Guinea wild lime; orange, sour; orange, sweet; pummelo; Russell River lime; satsuma mandarin; sweet lime; tachibana orange; Tahiti lime; tangelo; tangerine (mandarin); tangor; trifoliolate orange; uniq fruit; cultivars, varieties, and/or hybrids of these.**

**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.

| <b>Pest</b>            | <b>Dilute Sprays<sup>a</sup><br/>Fl Oz/100 Gal</b> | <b>Concentrate Sprays<sup>b</sup><br/>Fl Oz/A</b> |
|------------------------|--|---|
| Asian citrus psylla    | —  | 10.0 to 20.0 <sup>c</sup>                         |
| Broad mite             | 1.0 to 2.0   | 10.0 to 20.0 <sup>c</sup>                         |
| Citrus bud mite        | 1.0 to 2.0   | 10.0 to 20.0 <sup>d</sup>                         |
| Citrus leafminer       | —  | 5.0 to 20.0 <sup>c</sup>                          |
| Citrus rust mite       | 0.5 to 2.0   | 5.0 to 20.0 <sup>c</sup>                          |
| Citrus thrips          | —  | 10.0 to 20.0 <sup>e</sup>                         |
| Twospotted spider mite | 1.0 to 2.0   | 10.0 to 20.0                                      |

<sup>a</sup> The rate of Reaper ClearForm per 100 gallons is based on a volume of 1000 gallon per acre dilute spray.

<sup>b</sup> For concentrate sprays, adjust the dosage to apply an amount per acre equal to that used in full cover dilute spray.

<sup>c</sup> Ground application: For best results, use 150 to 300 gallons per acre of spray mix with a minimum of 3.0 gallons per acre of horticultural oil (not a dormant oil) and apply at a ground speed of 1 to 1.5 mph.

<sup>d</sup> For best results, use a minimum of 500 gallons per acre of spray mix with a minimum of 0.5% horticultural spray oil (not a dormant oil).

<sup>e</sup> For best results, use 100 to 250 gallons per acre of spray mix applied to achieve outside coverage.

**Instructions:**

- Applications should be made with a minimum of 0.2% horticultural spray oil (not a dormant oil) in the spray mixture or not less than 1.0 gallon of oil per acre (except when specified differently below).
- **Asian citrus psylla:** Apply to protect newly expanding foliage flush during the spring, summer or fall. Reaper ClearForm will only control adults and nymphs present at the time of application.
- **Citrus bud mite:** For best results, time the spray at “bud swell.”

**Reaper ClearForm Supplemental Label**  
**EPA REG. NO. 34704-1078**

- **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 egg hatch has begun—preferably early to mid-hatch). **(See Use Restrictions)**
- **Mites:** Apply when Mites first appear during spring, summer, and/or fall.

**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 gallons finished spray volume per acre. 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 ClearForm, or any other abamectin containing product, within 30 days of the last treatment.
- Application is not permitted from onset of flowering until after petal fall is complete.
- **Maximum Amount per Calendar Year: DO NOT** apply more than 0.047 pound abamectin per acre (40.0 fluid ounces per acre Reaper ClearForm) per calendar year.
- **DO NOT** make more than 3 applications of Reaper ClearForm, or any other abamectin containing product per calendar year.
- **Grazing: DO NOT** allow livestock to graze in treated grove/orchards.

**FRUITING VEGETABLES (EXCEPT CUCURBITS) CROP GROUP 8-10**

**Crops in this group are: African eggplant; bush tomato; bell pepper; cocona; currant tomato; eggplant; garden huckleberry; goji berry; groundcherry; martynia; naranjilla; okra; pea eggplant; pepino; nonbell pepper; roselle; scarlet eggplant; sunberry; tomatillo; tomato; tree tomato; cultivars, varieties, and/or hybrids of these.**

**For control of Broad mite, Colorado potato beetle, *Liriomyza* leafminers, Potato psyllid, 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 optimum results. Inadequate coverage may result in reduced control.

**IMPORTANT:** Reaper ClearForm may be applied with ground application equipment or aircraft. For best control of Mites, apply Reaper ClearForm 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 ClearForm is aerially applied.

| <b>Pest</b>                 | <b>Fl Oz/A</b> |
|-----------------------------|----------------|
| Broad mite                  | 8.0 to 16.0    |
| Colorado potato beetle      |                |
| <i>Liriomyza</i> leafminers |                |
| Potato psyllid              |                |
| Spider mites                |                |

**Reaper ClearForm Supplemental Label**  
**EPA REG. NO. 34704-1078**

|                     |      |
|---------------------|------|
| <i>Thrips palmi</i> |      |
| Tomato psyllid      |      |
| Tomato russet mite  |      |
| Tomato pinworm      | 16.0 |

**Instructions:**

- **Broad, russet, and Spider mite:** Apply when Mites first appear.
- **Mites, Leafminers, *Thrips palmi*, and Colorado potato beetle:** Use 8.0 fluid ounces per acre for low to moderate infestations and 16.0 fluid ounces per acre for severe infestations.
- ***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.
- Repeat application as necessary to maintain control. (**See Use Restrictions**)
- **Note:** Reaper ClearForm 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 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 fruiting vegetables grown for transplanting.
- **Amount of Water: DO NOT** apply in less than 20.0 gallons water per acre with ground application equipment. **DO NOT** apply in less than 5.0 gallons 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.
- **Application Interval:** Wait at least 7 days before repeating application, but do not make more than 2 sequential applications of Reaper ClearForm or any other foliarly applied abamectin containing product.
- **Number of Applications: DO NOT** make more than 2 sequential applications of Reaper ClearForm or any other foliarly applied abamectin containing product.
- **Maximum Amount per Calendar Year: DO NOT** apply more than 0.056 pound abamectin per acre (or 48.0 fluid ounces per acre Reaper ClearForm) per calendar year.
- **Maximum Amount per Application: DO NOT** apply more than 0.019 pound abamectin per acre (or 16.0 fluid ounces per acre Reaper ClearForm) per application.

**GRAPES AND SMALL FRUIT VINE CLIMBING SUBGROUP (EXCEPT FUZZY KIWIFRUIT) CROP**  
**SUBGROUP 13-07F**

**Crops in this group are: Amur river grape; gooseberry; grape; kiwifruit, hardy; maypop; schisandra berry; cultivars, varieties, and/or hybrids of these.**

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

Reaper ClearForm 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.

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**EPA REG. NO. 34704-1078**

**DO NOT** spray alternate rows. Reaper ClearForm must be applied to both sides of each row for maximum coverage.

| <b>Pest</b>  | <b>Fl Oz/A</b>                         |
|--|--|
| Pacific spider mite<br>Twospotted spider mite<br>Variegated leafhopper<br>Western grape leafhopper<br>Western grapeleaf skeletonizer<br>Willamette spider mite | 8.0 to 16.0 plus a nonionic surfactant |

**Instructions:**

- Use 8.0 to 12.0 fluid ounces per acre for low to moderate infestations and 16.0 fluid ounces for severe infestations.
- Repeat application, if needed. **(See Use Restrictions)**
- **Note:** Reaper ClearForm 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 ClearForm 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 ClearForm 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.
- **Leafhoppers:** Apply Reaper ClearForm plus a nonionic surfactant using thorough spray coverage for contact knockdown only.
- **Spider mites:** Apply when Mites first appear but before motiles exceed 5 per leaf.
- **Western grapeleaf skeletonizer:** Apply Reaper ClearForm plus a nonionic surfactant when larvae are first observed. For optimum control, apply shortly after egg hatch.

**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 gallons water per acre with conventional ground application equipment. When using an electrostatic sprayer, less than 50.0 gallons water per acre may be used; however do not use less than 5.0 gallons water per acre.
- Application is not permitted from onset of flowering until after petal fall is complete.
- **Maximum Amount per Application: DO NOT** apply more than 0.019 pound abamectin per acre (or 16.0 fluid ounces per acre Reaper ClearForm) per 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 ClearForm or any other foliarly applied abamectin containing product per calendar year.
- **Maximum Amount per Calendar Year: DO NOT** apply more than 0.038 pound abamectin per acre (or 32.0 fluid ounces per acre Reaper ClearForm) per calendar year.
- **Grazing: DO NOT** allow livestock to graze in treated vineyards.



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**GUAVA**

**Crops in this group are: acerola, feijoa, guava, jaboticaba, passionfruit, starfruit, and wax jambu. For control of 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.

| <b>Pest</b>            | <b>For Dilute Sprays<sup>a</sup><br/>fl oz/100 gal</b> | <b>For Concentrate Sprays<sup>b</sup><br/>fl oz/A</b> |
|------------------------|--|---|
| Twospotted spider mite | 1.0 to 2.0   | 10.0 to 20.0 <sup>c</sup>                             |

<sup>a</sup> The rate of Reaper ClearForm per 100 gallons is based on a volume of 1000 gallons per acre dilute spray.

<sup>b</sup> For concentrate sprays, adjust the dosage to apply an amount per acre equal to that used in full cover dilute spray.

<sup>c</sup> Ground application: For best results, use 150 to 300 gallons per acre of spray mix with a minimum of 3.0 gallons per acre of horticultural oil (not a dormant oil) and apply at a ground speed of 1 to 1.5 mph.

**Instructions:**

- Apply Reaper ClearForm with a minimum of 0.20% horticultural spray oil (not a dormant oil) in the spray mixture or not less than 1.0 gallons of oil per acre (except when specified differently below).
- Use 10.0 to 15.0 fluid ounces of product per acre for low to moderate infestations and 15.0 to 20.0 fluid ounces of product per acre for severe infestations.
- Mites: Apply when mites first appear during spring, summer, and/or fall.

**Use Restrictions:**

- **PHI: DO NOT** apply within 7 days of harvest.
- **Application Method:** Ground application only.
- **Amount of Water: DO NOT** apply in less than 50.0 gallons water per acre with conventional ground application equipment. When using an electrostatic sprayer, less than 50.0 gallons water per acre may be used; however, do not use less than 5.0 gallons water per acre.
- **Maximum Amount per Application: DO NOT** apply more than 0.023 pound abamectin per acre (or 20.0 fluid ounces per acre Reaper ClearForm) per application.
- **Application Interval:** If a second application is necessary, wait at least 14 days before repeating application.
- **Number of Applications: DO NOT** make more than 3 applications of Reaper ClearForm or any other foliarly applied abamectin-containing product per calendar year.
- **Maximum Amount per Calendar Year: DO NOT** apply more than 0.07 pound abamectin per acre (60.0 fluid ounces per acre Reaper ClearForm) per calendar year.

**HERB (CROP SUBGROUP 19A)**

**Crops in this subgroup are: Angelica, Balm, Basil, Borage, Burnet, Catnip, Chamomile, Chervil (dried), Chives, Chives (Chinese), 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.**

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**EPA REG. NO. 34704-1078**

**For control of *Liriomyza* leafminers and Spider mite.**

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

| <b>Pest</b>                 | <b>Fl Oz/A</b> |
|-----------------------------|----------------|
| <i>Liriomyza</i> leafminers | 8.0 to 16.0    |
| Spider mite                 |                |

**Instructions:**

- Use 8.0 fluid ounces per acre for low to moderate infestations and 16.0 fluid ounces per acre for severe infestations.
- Apply when adult leafminer flies or spider mites are first observed and repeat application, as necessary to maintain control. **(See Use Restrictions)**
- Reaper ClearForm 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 for all crops in the Herb Crop Subgroup except chives. **DO NOT** use a surfactant when applying this product to chives.
- **Note:** Although Reaper ClearForm 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 ClearForm 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 Restrictions:**

- **PHI: DO NOT** apply within **14** days of harvest. For chives, do not apply within **7** days of harvest.
- **Application Method:** Apply with ground application equipment.
- **Amount of Water:** Use a minimum of 20.0 gallons water per acre.
- Application is not permitted from onset of flowering until after petal fall is complete.
- **Application Interval:** Wait at least 7 days before repeating application.
- **Maximum Amount per Application: DO NOT** apply more than 0.019 pound abamectin per acre (or 16.0 fluid ounces per acre Reaper ClearForm) per application.
- **Number of Applications: DO NOT** make more than 2 applications of Reaper ClearForm or any other foliarly applied abamectin containing product per single cutting (harvest).
- **Maximum Amount per Calendar Year: DO NOT** apply more than 0.056 pound abamectin per acre (or 48.0 fluid ounces per acre Reaper ClearForm) per calendar year.

**LYCHEE**

**Crops in this group are: longan, lychee , pulasan, rambutan, and Spanish lime.**

**For control of Twospotted spider mites, *Liriomyza* leafminers, and Thrips.**

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.

| <b>Pest</b>                 | <b>For Dilute Sprays<sup>a</sup><br/>fl oz/100 gal</b> | <b>For Concentrate Sprays<sup>b</sup><br/>fl oz/A</b> |
|-----------------------------|--|---|
| <i>Liriomyza</i> leafminers | 1.0 to 2.0   | 10.0 to 20.0 <sup>c</sup>                             |
| Thrips                      |  |   |
| Twospotted spider mite      |  |   |

**Reaper ClearForm Supplemental Label**  
**EPA REG. NO. 34704-1078**

<sup>a</sup> The rate of Reaper ClearForm per 100 gallons is based on a volume of 1000 gallons per acre dilute spray.

<sup>b</sup> For concentrate sprays, adjust the dosage to apply an amount per acre equal to that used in full cover dilute spray.

<sup>c</sup> Ground application: For best results, use 150 to 300 gallons per acre of spray mix with a minimum of 3.0 gallons per acre of horticultural oil (not a dormant oil) and apply at a ground speed of 1 to 1.5 mph.

**Instructions:**

- Apply Reaper ClearForm with a minimum of 0.20% horticultural spray oil (not a dormant oil) in the spray mixture or not less than 1.0 gallon of oil per acre (except when specified differently below).
- Use 10.0 to 15.0 fluid ounces of product per acre for low to moderate infestations and 15.0 to 20.0 fluid ounces of product per acre for severe infestations.
- **Leafminers:** Apply to protect new growth during spring, summer, or fall.
- **Mites:** Apply when mites first appear during spring, summer, and/or fall.
- **Thrips:** Applications targeted for 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).

**Use Restrictions:**

- **PHI: DO NOT** apply within **14** days of harvest.
- **Application Method:** Ground application only.
- **Amount of Water: DO NOT** apply in less than 50.0 gallons water per acre with conventional ground application equipment. When using an electrostatic sprayer, less than 50.0 gallons water per acre may be used; however, do not use less than 5.0 gallons water per acre.
- **Maximum Amount per Application: DO NOT** apply more than 0.023 pound abamectin per acre (or 20.0 fluid ounces per acre Reaper ClearForm) per application.
- **Application Interval:** If a second application is necessary, wait at least 30 days before repeating application.
- **Number of Applications: DO NOT** make more than 2 applications of Reaper ClearForm or any other foliarly applied abamectin-containing product per calendar year.
- **Maximum Amount per Calendar Year: DO NOT** apply more than 0.046 pound abamectin per acre (40.0 fluid ounces per acre Reaper ClearForm) per calendar year.

**ONION, GREEN CROP SUBGROUP 3-07B**

**Crops in this group are: chive, fresh leaves; chive, Chinese, fresh leaves; Elegans hosta; fritillaria, leaves; kurrat; lady's leek; leek; leek, wild; onion, Beltsville bunching; onion, fresh; onion, green; onion, macrostem; onion, tree, tops; onion, Welsh, tops; shallot, fresh leaves; cultivars, varieties, and/or hybrids of these.**

**For control of Liriomyza leafminers and Thrips.**

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

**Note:**

- Apply Reaper ClearForm with ground application equipment or aircraft.
- For best control apply Reaper ClearForm with ground application equipment. With aerial application, the resulting control of leafminers and thrips could be less than with ground application.

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**EPA REG. NO. 34704-1078**

| <b>Pest</b>                 | <b>Fl Oz/A</b> |
|-----------------------------|----------------|
| <i>Liriomyza</i> leafminers | 8.0 to 16.0    |
| Thrips                      |                |

**Instructions:**

- Use 8.0 to 12.0 fluid ounces per acre for low to moderate infestations and 13.0 to 16.0 fluid ounces per acre for high infestations.
- **Leafminers:** Apply when adult leafminer flies are first observed and repeat application, as needed, to maintain control within constraints of a sound resistance management program. **(See Use Restrictions.)**
- **Thrips:** Apply in a thrips management program and when thrips are at economic threshold. Repeat application, as needed, to maintain control within constraints of a sound resistance management program. **(See Use Restrictions.) DO NOT** use Reaper ClearForm as a rescue treatment for thrips control.
- **Note:** Add a non-ionic activator type wetting, spreading and/or penetrating adjuvant approved for use on bulb onion. **DO NOT** use binder or sticker type adjuvants. Tank-mixing with products that have binder or sticker type formulations can reduce Reaper ClearForm performance. **(See Use Information and Use Restrictions.)**

**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 or California.
- **Amount of Water: DO NOT** apply in less than 20.0 gallons water per acre with ground application equipment. **DO NOT** apply in less than 5.0 gallons 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 ensure adequate coverage.
- **Maximum Amount per Application: DO NOT** apply more than 0.019 pound abamectin per acre (or 16.0 fluid ounces per acre Reaper ClearForm) per application.
- **Application Interval:** Wait at least 7 days before repeating application.
- **Number of Applications:** Make 2 consecutive applications of Reaper ClearForm then rotate to a chemistry with a different mode of action. Make at least 2 applications of a chemistry with a different mode of action before making additional Reaper ClearForm applications. **DO NOT** make more than 2 sequential applications of Reaper ClearForm or any other foliarly applied abamectin-containing product.
- **Maximum Amount per Calendar Year: DO NOT** apply more than 0.076 pound abamectin per acre (or 64.0 fluid ounces per acre Reaper ClearForm) per calendar year.

**PAPAYA**

**Crops in this group are: black sapote, canistel, mamey sapote, papaya, sapodilla, and star apple. For control of Twospotted spider mites.**

| <b>Pest</b>            | <b>Dilute Sprays<sup>a</sup></b> | <b>Concentrate Sprays<sup>b</sup></b> |
|------------------------|----------------------------------|---------------------------------------|
|                        | <b>Fl Oz/100 Gal</b>             | <b>Fl Oz/A</b>                        |
| Twospotted spider mite | 1.0 to 2.0                       | 10.0 to 20.0 <sup>c</sup>             |

<sup>a</sup>The rate of Reaper ClearForm per 100 gallons is based on a volume of 1,000 gallons per acre dilute spray.

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**EPA REG. NO. 34704-1078**

<sup>b</sup>For concentrate sprays, adjust the dosage to apply an amount per acre equal to that used in full cover dilute spray.

<sup>c</sup>Ground application: For best results, use 150 to 300 gallons per acre of spray mix with a minimum of 3.0 gallons per acre of horticultural oil (not a dormant oil) and apply at a ground speed of 1 to 1.5 mph.

**Instructions:**

- Apply Reaper ClearForm with a minimum of 0.20% horticultural spray oil (not a dormant oil) in the spray mixture or not less than 1.0 gallon of oil per acre (except when specified differently below).
- Use 10.0 to 15.0 fluid ounces of product per acre for low to moderate infestations and 15.0 to 20.0 fluid ounces of product per acre for severe infestations.
- **Mites:** Apply when mites first appear during spring, summer, and/or fall.

**Use Restrictions:**

- **DO NOT** apply to mango.
- **PHI: DO NOT** apply within 3 days of harvest.
- **Application Method:** Ground application only.
- **Amount of Water: DO NOT** apply in less than 50.0 gallons water per acre with conventional ground application equipment. When using an electrostatic sprayer, less than 50.0 gallons water per acre may be used; however, do not use less than 5.0 gallons water per acre.
- **Maximum Amount per Application: DO NOT** apply more than 0.023 pound abamectin per acre (or 20.0 fluid ounces per acre Reaper ClearForm) per application.
- **Application Interval:** If a second application is necessary, wait at least 14 days before repeating application.
- **Number of Applications: DO NOT** make more than 3 applications of Reaper ClearForm or any other foliarly applied abamectin-containing product per calendar year.
- **Maximum Amount per Calendar Year: DO NOT** apply more than 0.070 pound abamectin per acre (60.0 fluid ounces per acre Reaper ClearForm) per calendar year.

**PINEAPPLE**

**For control of Twospotted spider mite.**

| <b>Pest</b>            | <b>Fl Oz/A</b> |
|------------------------|----------------|
| Twospotted spider mite | 10.0 to 20.0   |

**Instructions:**

Use 10.0 to 15.0 fluid ounces per acre for low to moderate infestations and 15.0 to 20.0 fluid ounces per acre for high infestations.

**Use Restrictions:**

- **PHI: DO NOT** apply within 16 weeks of harvest.
- **Application Method:** Ground application only.
- **Amount of Water: DO NOT** apply in less than 50.0 gallons water per acre with conventional ground application equipment. When using an electrostatic sprayer, less than 50.0 gallons water per acre may be used; however, do not use less than 5.0 gallons water per acre.
- **Maximum Amount per Application: DO NOT** apply more than 0.023 pound abamectin per acre (or 20.0 fluid ounces per acre Reaper ClearForm) per application.
- **Application Interval:** If a second application is necessary, wait at least 7 days before repeating application.

**Reaper ClearForm Supplemental Label  
EPA REG. NO. 34704-1078**

- **Number of Applications: DO NOT** make more than 2 applications of Reaper ClearForm or any other foliarly applied abamectin-containing product per calendar year.
- **Maximum Amount per Calendar Year: DO NOT** apply more than 0.046 pound abamectin per acre (40.0 fluid ounces per acre Reaper ClearForm) per calendar year.

**POME FRUIT CROP GROUP 11-10**

**Crops in this group are: apple; azarole; crabapple; loquat; mayhaw; medlar; pear; pear, Asian; quince; quince, Chinese; quince, Japanese; tejocote; cultivars, varieties, and/or hybrids of these. For control of European red mite, McDaniel spider mite, Pear psylla, Pear rust mite, Tentiform leafminer, Twospotted spider mite, White apple leafhopper, and Yellow mite.**

Reaper ClearForm 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 ClearForm 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 ClearForm plus horticultural spray oil fewer than 14 days before or after applying Captan® can result in phytotoxicity and crop loss.

| <b>Pest</b>            | <b>Dilute Sprays <sup>a</sup><br/>Fl Oz/100 Gal</b> | <b>Concentrate Sprays <sup>b</sup><br/>Fl Oz/A</b> |
|------------------------|---|--|
| European red mite      | 2.5 to 5.0  | 10.0 to 20.0                                       |
| McDaniel spider mite   |   |  |
| Pear psylla            |   |  |
| Pear rust mite         |   |  |
| Tentiform leafminer    |   |  |
| Twospotted spider mite |   |  |
| White apple leafhopper |   |  |
| Yellow mite            |   |  |

<sup>a</sup>The rate of Reaper ClearForm per 100 gallons is based on a volume of 400 gallons per acre dilute spray.

<sup>b</sup>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 10.0 fluid ounces per acre on small trees.

**Instructions:**

- Apply Reaper ClearForm when spider mite or insect thresholds are reached.
- A second application may be made if needed to maintain control. **(See Use Restrictions.)**
- Use a minimum of 0.25% horticultural spray oil (not a dormant oil) in the dilute spray mixture and not less than 1.0 gallon of horticultural spray oil per acre in the final finished spray.

**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 gallons water per acre.

**Reaper ClearForm Supplemental Label**  
**EPA REG. NO. 34704-1078**

- Application is not permitted from onset of flowering until after petal fall is complete.
- **Maximum Amount per Application: DO NOT** apply more than 0.023 pound abamectin per acre (or 20.0 fluid ounces per acre Reaper ClearForm) per 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 ClearForm or any other foliarly applied abamectin-containing product per calendar year.
- **Maximum Amount per Calendar Year: DO NOT** apply more than 0.047 pound abamectin per acre (or 40.0 fluid ounces per acre Reaper ClearForm) per calendar year.
- **Grazing: DO NOT** allow livestock to graze in treated orchards.

**STONE FRUIT CROP GROUP 12-12**

**Crops in this group are: apricot; apricot, Japanese; capulin; cherry, black; cherry, Nanking; cherry, sweet; cherry, tart; Jujube, Chinese; nectarine; peach; plum; plum, American; plum, beach; plum, Canada; plum, cherry; plum, Chickasaw; plum, Damson; plum, Japanese; plum, Klamath; plum, prune; plumcot; sloe; cultivars, varieties, and/or hybrids of these.**

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

Reaper ClearForm 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.

| <b>Pest</b>            | <b>Dilute Sprays <sup>a</sup></b> | <b>Concentrate Sprays <sup>b</sup></b> |
|------------------------|-----------------------------------|--|
|                        | <b>Fl Oz/100 Gal</b>              | <b>Fl Oz/A</b>                         |
| European red mite      | 2.5 to 5.0                        | 10.0 to 20.0                           |
| Pacific spider mite    |                                   |  |
| Twospotted spider mite |                                   |  |

<sup>a</sup> The rate of Reaper ClearForm per 100 gallons is based on the volume of 400 gallons per acre dilute spray.

<sup>b</sup> 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 spray as would be required for the dilute sprays to the same orchard/grove. This may result in use of less than 10.0 fluid ounces per acre on small trees.

**Instructions:**

- Apply when Mites first appear.
- A second application may be made, if needed, to maintain control. (See Use Restrictions)
- Always apply Reaper ClearForm 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 ClearForm has been tested in combination with non-ionic surfactants for safety to stone fruit, it is impossible to test on all 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 ClearForm in combination with a nonionic surfactant, carefully follow the Directions for Use and Precautions on the surfactant label and in official spray guides.

**Reaper ClearForm Supplemental Label**  
**EPA REG. NO. 34704-1078**

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 gallon of horticultural spray oil per acre in the final finished spray.

**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 gallons water per acre.
- **Maximum Amount per Application: DO NOT** apply more than 0.023 pound abamectin per acre (or 20.0 fluid ounces per acre Reaper ClearForm) per application.
- **Application Interval:** If a second application is needed, wait at least 21 days before repeating application.
- Application is not permitted from onset of flowering until after petal fall is complete.
- **Number of Applications: DO NOT** make more than 2 applications of Reaper ClearForm or any other foliarly applied abamectin containing product per calendar year.
- **Maximum Amount per Calendar Year: DO NOT** apply more than 0.047 pound abamectin per acre (or 40.0 fluid ounces per acre Reaper ClearForm) per calendar year.
- **Grazing: DO NOT** allow livestock to graze in treated orchards.

**STRAWBERRIES, LOW GROWING BERRY CROP SUBGROUP 13-07G**

**Crops in this group are: bearberry; bilberry; blueberry, lowbush; cloudberry; cranberry; lingonberry; muntries; partridgeberry; strawberry; cultivars, varieties, and/or hybrids of these.**

**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.

| <b>Pest</b>            | <b>Fl oz/A</b> |
|------------------------|----------------|
| Strawberry spider mite | 16.0           |
| Twospotted spider mite |                |

**Instructions:**

- 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 ClearForm 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 gallons water per acre with conventional ground application equipment. When using electrostatic sprayers do not apply in less than 10.0 gallons water per acre.
- **Maximum Amount per Application: DO NOT** apply more than 0.019 pound abamectin per acre (or 16.0 fluid ounces per acre Reaper ClearForm) per application.



**Reaper ClearForm Supplemental Label  
EPA REG. NO. 34704-1078**

- **Application Interval:** Wait at least 21 days after the second application before repeating application.
- **Maximum Amount per Calendar Year: DO NOT** apply more than 0.075 pound abamectin per acre (or 64.0 fluid ounces per acre Reaper ClearForm) per calendar year.

**TREE NUTS CROP GROUP 14-12**

**Crops in this group are: African nut-tree; almond; beechnut; Brazil nut; Brazilian pine; bunya; bur oak; butternut; Cajou nut; candlenut; cashew; chestnut; chinquapin; coconut; coquito nut; dika nut; ginkgo; Guiana chestnut; hazelnut (filbert); heartnut; hickory nut; Japanese horse-chestnut; macadamia nut; mongongo nut; monkey-pot; monkey puzzle nut; Okari nut; Pachira nut; peach palm nut; pecan; pequi; Pili nut; pine nut; pistachio; Sapucaia nut; tropical almond; walnut, black; walnut, English; yellowhorn; cultivars, varieties, and/or hybrids of these.**

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

Reaper ClearForm 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.

| <b>Pest</b>  | <b>Dilute Sprays <sup>a</sup></b> | <b>Concentrate Sprays <sup>b</sup></b> |
|--|-----------------------------------|--|
|  | <b>Fl Oz/100 Gal</b>              | <b>Fl Oz/A</b>                         |
| European red mite<br>Pacific spider mite<br>Strawberry spider mite<br>Twospotted spider mite | 2.5 to 5.0                        | 10.0 to 20.0                           |

<sup>a</sup> The rate of Reaper ClearForm per 100 gallons based on a volume of 400 gallons per acre dilute spray.

<sup>b</sup> 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 that would be required for the dilute sprays to the same orchard/grove. This may result in use of less than 10.0 fluid ounces per acre on small trees.

**Instructions:**

- Always use Reaper ClearForm in combination with a horticultural spray oil (not a dormant oil) approved for use on tree nuts. Use a minimum of 0.25% horticultural spray oil (not a dormant oil) in the dilute spray mixture and not less than 1.0 gallon of horticultural spray oil per acre in the final finished spray.
- Apply Reaper ClearForm when Spider mites first appear. 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.)**

**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 gallons water per acre.
- Application is not permitted from onset of flowering until after petal fall is complete.
- **Application Interval:** If a second application is necessary, wait at least 21 days before repeating application.

**Reaper ClearForm Supplemental Label**  
**EPA REG. NO. 34704-1078**

- **Maximum Amount per Application: DO NOT** apply more than 0.023 pound abamectin per acre (or 20.0 fluid ounces per acre Reaper ClearForm) per application.
- **Applications per Calendar Year: DO NOT** make more than 2 applications of Reaper ClearForm or any other foliarly applied abamectin containing product per calendar year.
- **Maximum Amount per Calendar Year: DO NOT** apply more than 0.047 pound abamectin per acre (or 40.0 fluid ounces per acre Reaper ClearForm) per calendar year.
- **Grazing: DO NOT** allow livestock to graze in treated groves/orchards.

**Formulated by**  
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