



U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs  
Registration Division (7505P)  
1200 Pennsylvania Ave., N.W.  
Washington, D.C. 20460

EPA Reg. Number:

89168-111

Date of Issuance:

02/02/2021

NOTICE OF PESTICIDE:

Registration  
 Reregistration  
(under FIFRA, as amended)

Term of Issuance:

Unconditional

Name of Pesticide Product:

Liberty Acetamip 70 WP

Name and Address of Registrant (include ZIP Code):

Karen Murphy  
Regulatory Affairs Manager  
Liberty Crop Protection, LLC  
1880 Fall River Drive, Suite 100  
Loveland, CO 80538

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

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide and Rodenticide Act.

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

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

1. Submit and/or cite all data required for registration/reregistration/registration review of your product when the Agency requires all registrants of similar products to submit such data.
2. Make the following label changes before you release the product for shipment:
  - Revise the EPA Registration Number to read, "EPA Reg. No. 89168-111."

Signature of Approving Official:

Venus Eagle, Product Manager 01  
Invertebrate and Vertebrate Branch 3  
Registration Division (7505P)

Date:

02/02/2021

3. Submit one copy of the revised final printed label for the record before you release the product for shipment.

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.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records. Please also note that the record for this product currently contains the following CSFs:

- Basic CSF dated 05/20/2020
- Alternate CSF 1 dated 05/20/2020
- Alternate CSF 2 dated 05/20/2020

If you have any questions, please contact Paul Di Salvo by phone at 703-347-0322, or via email at [disalvo.paul@epa.gov](mailto:disalvo.paul@epa.gov)

Enclosure: Stamped Label

[Note to reviewer: [Text] in brackets indicates optional text]

# LIBERTY ACETAMIP 70 WP

Acetamiprid | GROUP 4A | INSECTICIDE

## For Agricultural Use Only

<b>ACTIVE INGREDIENT:</b>	<b>By Wt.</b>
Acetamiprid, (E)- N <sup>1</sup> -[(6-chloro-3-pyridyl)methyl]-N <sup>2</sup> -cyano-N <sup>1</sup> -methyl acetamidine .....	70.0%
<b>OTHER INGREDIENTS:</b> .....	<u>30.0%</u>
<b>TOTAL:</b> .....	100.0%

### 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.)

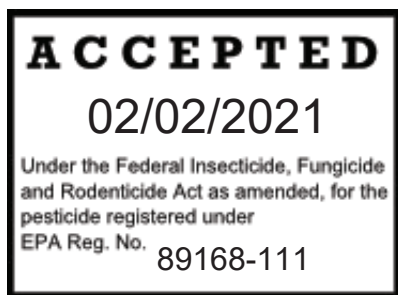
See inside label booklet for additional Precautionary Statements and Directions for Use including Storage and Disposal instructions.

EPA Reg. No.: 89168-XX  
EPA Est. No.:

Net Contents: \_\_\_ oz (lb)

Batch Code:

**Manufactured For:**  
LIBERTY CROP PROTECTION, LLC  
1880 FALL RIVER DRIVE, SUITE 100  
LOVELAND, CO 80538



020221

<b>FIRST AID</b>	
<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>
<b>If in eyes:</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 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 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 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<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>HOT LINE NUMBER</b>	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For 24-Hour Medical Emergency Assistance (Human or Animal) Or Chemical Emergency Assistance (Spill, Leak, Fire or Accident) Call <b>1-800-424-9300</b>	
<b>NOTE TO PHYSICIAN:</b> There is no specific antidote. All treatment should be based on observed signs and symptoms of distress in the patient.	

**For Chemical Emergency**  
**Spill, Leak, Fire, Exposure, or Accident**  
**Call CHEMTREC Day or Night**  
**1-800-424-9300**

## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

#### CAUTION

Harmful if swallowed. Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Harmful if inhaled. Avoid breathing vapors or spray mist.

#### PERSONAL PROTECTIVE EQUIPMENT (PPE)

Mixers, loaders, applicators, and other handlers must wear long-sleeved shirts, long pants, shoes plus socks, chemical resistant gloves made out of: nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, barrier laminate ≥ 14 mils, polyvinyl chloride (PVC) ≥ 14 mils, or viton ≥ 14 mils and chemical resistant headgear for overhead exposure.

In addition to the above, for aerial applications, mixers and loaders must wear a filtering face piece, half piece or full face NIOSH approved particulate respirator (TC-84A) with any R or P filter.

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.

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

## USER SAFETY RECOMMENDATIONS

### Users should:

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

## PHYSICAL OR CHEMICAL HAZARDS

Do not mix or allow coming in contact with oxidizing agent. Hazardous chemical reaction may occur.

## ENVIRONMENTAL HAZARDS

This product is toxic to birds and aquatic invertebrates. This product is toxic to bees exposed to direct treatment. Do not apply this product while bees are foraging in the treatment area. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater or rinsate. Do not contaminate water used for irrigation or domestic purposes.

### Ground Water Advisory

This chemical has properties and characteristics associated with chemicals detected in ground water. This chemical may leach into ground water if used in areas where soils are permeable, particularly where the water table is shallow.

### Surface Water Advisory

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 high potential for reaching surface water via runoff for several months or more after application. Avoid accidental or intentional application of this product to ditches, swales, drainage ways or impervious surfaces such as driveways. Runoff of this product to surface water will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours.

## DIRECTIONS FOR USE

**It is a violation of Federal law to use this product in any manner inconsistent with its labeling.  
Read entire label before using this product.**

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 intervals. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

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

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is coveralls, waterproof gloves and shoes plus socks.

## Mandatory Spray Drift Management

Weather and equipment are the predominant factors in determining spray drift, and applications must not be made when weather conditions or equipment settings/function may lead to drift outside of the intended application area. Use nozzle and pressure combinations that distribute MEDIUM spray droplets (see nozzle manufacturer's catalogs and ASAE Standard S-572) when applying this product by air. Aerial applications must NOT be made during temperature inversions or when wind speed is greater than 10 mph in order to avoid spray drift. *The applicator is responsible for preventing spray drift from the target area.*

The interaction of many equipment- and weather-related factors determines the potential for spray drift. The applicator is responsible for considering all of these factors when making decisions.

The following drift management requirements must be followed to avoid off-target movement from aerial applications to agricultural crops. These requirements do not apply to forestry application, public health uses or to application using dry formulations.

1. The distance of the outer most nozzles on the boom must not exceed 3/4 the length of the wingspan or rotor.
2. Use the largest droplet size consistent with good pest control. Small droplets are more prone to spray drift and can be minimized by appropriate nozzle selection, by orienting nozzles away from the airstream as much as possible, and by avoiding excessive spray boom pressure.

Where states have more stringent regulations, they should be observed.

Do not cultivate or plant crops within 10 feet of aquatic areas as to allow growth of a vegetative filter strip.

The applicator should be familiar with and consider the information covered in the Aerial Drift Reduction Advisory below:

### AERIAL DRIFT REDUCTION ADVISORY

This section is advisory in nature and does not supersede the mandatory label requirements.

#### INFORMATION ON DROPLET SIZE

The most effective way to reduce drift potential is to apply **MEDIUM** 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** – Small droplets are more prone to spray drift and can be minimized by several factors including orienting nozzles away from the airstream. Orienting nozzles so that the spray is released parallel to the airstream produces larger droplets than other orientations. 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 wingspan 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 crosswind, the swath will be displaced downwind. Therefore, on the up and downwind edges of the field, the applicator should compensate for this displacement by adjusting the path of the aircraft upwind. Swath adjustment distance should increase, with increasing drift potential (higher wind, smaller drops, etc.).

## **WIND**

Drift potential is lowest between wind speeds of 2 – 10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given speed. Application should 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**

When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

## **TEMPERATURE INVERSIONS**

Applications should not occur during a temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They 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, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. 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.

## **SENSITIVE AREAS**

The pesticide should only be applied when the potential for drift to adjacent sensitive areas (e.g. residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops) is minimal (e.g. when wind is blowing away from the sensitive areas).

## **DIRECTIONS FOR CHEMIGATION**

### **Instructions**

**For chemigation use only on cranberries and on potatoes after foliage has emerged and only through overhead sprinkler irrigation systems.**

Apply this product only through overhead sprinkler irrigation systems including center pivot, lateral move, side (wheel) roll, solid set, or hand move irrigation systems after potato foliage has emerged. Do not apply this product through any other type of irrigation system. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts. A person knowledgeable of the chemigation system and responsible for its operation or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

The overhead sprinkler chemigation system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from back flow. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump. The pesticide injection pipeline must also contain a functional, normally-closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed for materials that are compatible with pesticides and capable of being fitted with a system interlock.

Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place. Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year. Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, back flow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the flow outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection. The pesticide injection pipeline must contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops or, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Do not apply when wind speed favors drift beyond the area intended for treatment.

### **Application Instructions**

Follow instructions for system requirements in the Direction for Chemigation section above. This product is only to be applied through systems with anti-siphon valves, check valves, and interlocking controls between the metering device and the water pump to guarantee synchronized shut-off. Such systems are designed and intended to prevent water source contamination or overflow of the mix tank. Be sure to maintain constant agitation in the solution tank before and during the application to assure an even suspension. Better accuracy in calibration and distribution is achieved by injecting a greater volume of a more dilute suspension per unit time. Efficacy may be reduced if this product is applied using more than the specified volume of irrigation water per acre. Do not apply when wind speed favors drift beyond the area intended for treatment. Do not apply when the irrigation system has leaky fittings or connections, when spray nozzles cannot provide even distribution, or when irrigation lines used in applying the product have to be dismantled and drained instead of flushed. In a center pivot system, prevent spray application at the pivot unit by blocking the adjacent nozzle set. Due to their non-uniform distribution, do not use end guns when chemigating. Improper insect control may result where sprinkler distribution patterns are not sufficiently overlapping. Upon completion of the treatment, continue to run irrigation water until all the remaining pesticide has been cleared through the lines. This product may be applied in combination with liquid fertilizers which are chemically neutral. Do not apply this product in combination with highly alkaline fertilizers (e.g., aqueous ammonia) as this can cause this product to degrade resulting in decreased efficacy.

### **Spray Preparation**

Prior to application, flush the injector system and chemical tank with clean water until thoroughly cleaned including removal of scale, pesticide residues, and other foreign matter. Use a mix tank to prepare a solution of this product. Fill the tank with  $\frac{1}{2}$  or  $\frac{3}{4}$  the total amount of water to be used. Start agitation and slowly add the required amount of this product followed by the remaining volume of water.

### **Sprinkler Irrigation**

Follow instructions for system requirements in the Direction for Chemigation section above. Set sprinkler systems such that maximum water delivery is 0.2 inch per acre. Higher volumes of water may reduce product performance. Begin sprinkler and then evenly inject the solution into the irrigation water line to distribute the specified rate per acre. To mix, inject this product using a positive displacement pump into the main line before a right angle turn. Optimal insecticidal activity is achieved only when this product is retained on foliage. Do not apply when wind speed favors drift beyond the area intended for treatment. Improper insect control may result where sprinkler distribution patterns are not sufficiently overlapping.



## DIRECTIONS FOR AERIAL OR GROUND SPRAY APPLICATION

### APPLICATION TIMING

Begin application when treatment thresholds for insect populations are reached. Obtain additional information about recognized economic threshold levels from the Cooperative Extension Service, professional consultants, or other qualified authorities.

### INFORMATION

This product is a 70% wettable powder intended to control sucking and chewing insects for the listed crops on this label. Acetamiprid, the active ingredient in this product, is a neonicotinoid insecticide which acts through contact and ingestion to control target insects. This product rapidly absorbs into the plant tissue and immediately moves via systemic translaminar activity, providing protection to the entire leaf. However, for optimal control, thorough spray coverage is essential. After this product's spray solution has dried, it remains effective following rain or irrigation (rainfast).

### MIXING INSTRUCTIONS

#### Mixing and Application Instructions for LIBERTY ACETAMIP 70 WP

This product readily dissolves in water to form a spray mixture, to be applied via ground or air.

1. Prepare only the amount of spray mixture needed for that day's application.
2. Fill the tank  $\frac{1}{4}$  -  $\frac{1}{2}$  full with the total amount of water to be used.
3. Start agitation in the tank and add the required amount of this product. Shake the jug to fluff the product prior to measuring. Refrain from tamping down the product when using the measuring cone because the cone is calibrated to the fluffed product.
4. Direct a stream of water onto any floating product as the tank is being filled to assist in mixing.
5. Mix in tank for 2 minutes or until a thorough mixture is achieved prior to applying.
6. Maintain constant agitation in the solution tank before and during the application to assure an even suspension. Agitate the mixture before use for 10 minutes if the solution sits stationary for an extended period of time.
7. Equip the spray system with a 50-mesh inline filter. This will protect typically-used nozzles. Spray nozzles may also be equipped with nozzle filters (50-mesh) or slotted nozzle filters (25- to 50-mesh equivalent).
8. This product is unstable in water with a low pH (below 4) or high pH (above 9). Buffer water to attain an optimal pH range.

### COMPATIBILITY/TANK MIXING

This product is compatible with a variety of common spray products, when diluted with equal parts water. However, all potential compatibilities based on local considerations are unknown. To ensure the compatibility of this product with other spray products, conduct a jar test prior to tank mixing. Conduct a jar test with equal parts water and this product and mix thoroughly with added spray product or other pesticide. USE SPRAY MIXTURES DIRECTLY AFTER MIXING WITH SUFFICIENT AGITATION. MIXTURES THAT CURDLE, GREASE, OR PRECIPITATE ARE NOT TO BE USED.

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

#### Special Instructions for Tank Mixing LIBERTY ACETAMIP 70 WP

When tank mixing this product with other products, add them in the following sequence:

- (1) Water soluble packets
- (2) Wettable powders (e.g., LIBERTY ACETAMIP 70 WP)
- (3) Water dispersible granules
- (4) Flowing liquids
- (5) Emulsifiable concentrates
- (6) Adjuvants and/or oils (do not use stickers)

Following the addition of each product above, be sure to let full dispersion occur before adding the next product in the sequence. Boron containing products will negatively affect the film solubility of water soluble packets. Therefore, if boron products are to be added to the spray tank mix add the soluble packets first and wait until they are dissolved before adding any boron products.

## APPLICATION INSTRUCTIONS

### ROW CROPS

Unless otherwise specified in the crop specific directions, apply this product by air at a minimum finished spray volume of 5 gallons per acre or by ground at a minimum finished spray volume of 15 gallons per acre. It is important that equipment be calibrated and adjusted so as to create uniform and thorough spray coverage of the crop. Use nozzle and pressure combinations that distribute MEDIUM spray droplets (see nozzle manufacturer's catalogs and ASAE Standard S-572) when applying this product by air.

To increase plant uptake, spray coverage, and enhance pest control, use with a spray adjuvant, especially in listed vegetable crops (except legumes) and cotton (when controlling whiteflies). Recommended spray adjuvants include high quality non-ionic surfactants, methylated seed oils, or silicone surfactants. Not all adjuvants are safe for the target crop and must be chosen carefully to avoid adverse effects such as burn to foliage or fruit or spotting. See crop specific directions for adjuvant addition recommendations and refer to adjuvant directions for use. Additional information may be obtained from your local Crop Advisor, Extension Service representative, or a representative from LIBERTY CROP PROTECTION, LLC. For dense foliage or heavy infestations, use the higher listed rates. Do not add a sticker in the spray mixture. Specific residual control length depends on many factors including level of insect infestation, dosage rate, plant growth, and environmental factors. If applying through foliar banded application, the amount of product per acre is determined by band width divided by row width then multiplied by the appropriate broadcast rate.

When spraying is completed, rinse sprayer with clean water and dispose of the rinsate by applying to an area that has already been treated or dispose of according to the STORAGE AND DISPOSAL section.

### ORCHARD CROPS

For optimal pest control, it is important that equipment be calibrated and adjusted so as to create uniform and thorough crop coverage. To achieve thorough coverage throughout the tree or vine canopy, it is important to choose an appropriate finished spray volume for the size of the tree or vine. See crop specific directions for particular pests. Use nozzle and pressure combinations that distribute MEDIUM spray droplets (see nozzle manufacturer's catalogs and ASAE Standard S-572) when applying this product by air. Coverage by aerial applications may not be as thorough as ground applications.

To increase plant uptake, spray coverage, and enhance pest control, use this product with a spray adjuvant, especially in pome fruit (when controlling codling moth, oriental fruit moth, and San Jose scale). Recommended spray adjuvants include high quality non-ionic surfactants, methylated seed oils, or horticultural oils. Not all adjuvants are safe for the target crop and must be chosen carefully to avoid adverse effects such as burn to foliage or fruit or spotting. See crop specific directions for adjuvant addition recommendations and refer to adjuvant directions for use. Do not add a sticker in the spray mixture. Additional information may be obtained from your local Crop Advisor, Extension Service representative, or a representative from LIBERTY CROP PROTECTION, LLC.

For dense foliage or heavy infestations, use the higher listed rates. Specific residual control length depends on many factors including level of insect infestation, dosage rate, plant growth, and environmental factors.

When spraying is completed, rinse sprayer with clean water and dispose of the rinsate by applying to an area that has already been treated or dispose of according to the STORAGE AND DISPOSAL section.

### INTEGRATED PEST MANAGEMENT (IPM) USE OF THIS PRODUCT

This product can offer substantial benefits to producers using IPM programs. This product has adulticidal, larvicidal, and ovicidal activity against many pests. This product can be effectively utilized in IPM programs to control important pests combined with maintenance of beneficial insects and spiders.

## RESISTANCE- MANAGEMENT RECOMMENDATIONS

For resistance-management, LIBERTY ACETAMIP 70 WP contains a Group 4A insecticide. Any insect population may contain individuals naturally resistant to LIBERTY ACETAMIP 70 WP and other Group 4A insecticides. The resistant individuals may dominate the insect population if this group of insecticides are used repeatedly in the same fields. Appropriate resistance management strategies should be followed. Avoid foliar application of this product on crops treated with a Group 4A insecticide seed treatment or soil-applied application if a non-Group 4A insecticide has not been applied between these applications.

To delay insecticide resistance, take the following steps:

- Rotate the use of LIBERTY ACETAMIP 70 WP or other Group 4A insecticides within a growing season, or among growing seasons, with different groups that control the same pests. Avoid application of more than the maximum seasonal use rate or the total number of consecutive sprays of LIBERTY ACETAMIP 70 WP per season.
- Use tank mixtures with insecticides from a different group that are equally effective on the target pest when such use is permitted. Do not rely on the same mixture repeatedly for the same pest population. Consider any known cross-resistance issues (for the targeted pests) between the individual components of a mixture. In addition, consider the following recommendations provided by the Insecticide Resistance Action Committee (IRAC):
  - o Individual insecticides selected for use in mixtures should be highly effective and be applied at the rates at which they are individually registered for use against the target species.
  - o Mixtures with components having the same IRAC mode of action classification are not recommended for insect resistance management.
  - o When using mixtures, consider any known cross-resistance issues between the individual components for the targeted pest(s).
  - o Mixtures become less effective if resistance is already developing to one or both active ingredients, but they may still provide pest management benefits.
  - o The insect resistance management benefits of an insecticide mixture are greatest if the two components have similar periods of residual insecticidal activity. Mixtures of insecticides with unequal periods of residual insecticide activity may offer an insect resistance management benefit only for the period where both insecticides are active.
- Adopt an integrated pest management program for insecticide/acaricides use that includes scouting, uses historical information related to pesticide use, crop rotation, record keeping, and which considers cultural, biological and other chemical control practices.
- Monitor after application for unexpected target pest survival. If the level of survival suggests the presence of resistance, consult with your local university specialist or certified pest control advisor.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for the specific site and pest problems in your area.
- For further information or to report suspected resistance, contact LIBERTY CROP CARE at 844-425-8488. You can also contact your pesticide distributor or university extension specialist to report resistance.

Do NOT apply this product to labeled crops if grown in a greenhouse in order to prevent the development of insect resistance.

## RATE CONVERSION CHART FOR ALL OF THE FOLLOWING CROP USE DIRECTIONS

Pounds		Ounces	Treated Acres
Product Per Acre	A.I. Per Acre	Per Acre	Per Pound of Product
0.04	0.025	0.6	28.0
0.05	0.038	0.9	18.4
0.07	0.050	1.1	14.0
0.11	0.075	1.7	9.3
0.14	0.100	2.3	7.0
0.18	0.125	2.9	5.6
0.21	0.150	3.4	4.7
0.29	0.200	4.6	3.5
0.36	0.250	5.7	2.8

## CROP USE DIRECTIONS

### ASPARAGUS

Apply this product by air at a minimum finished spray volume of 5 gallons per acre or by ground at a minimum finished spray volume of 20 gallons per acre. For optimal control, thorough spray coverage is essential.

#### SPECIFIC INSTRUCTIONS

PEST	APPLICATION USE RATE	USE INSTRUCTIONS
<b>Asparagus Thrips, Japanese Beetle, Tarnished Plant Bug, Asparagus Miner (suppression)</b>	Apply 2.3 ounces (0.10 pound active ingredient) of this product per acre.	For control of Japanese Beetle and Tarnished Plant Bug, make foliar applications following the cutting season.  For control of Asparagus Miner, make applications to adults prior to egg laying.
<b>Leafhoppers</b>	Apply 1.1-1.7 ounces (0.05-0.075 pound active ingredient) of this product per acre.	
<b>Asparagus Aphids, Asparagus Beetle, Spotted Asparagus Beetle</b>	Apply 1.1-2.3 ounces (0.05-0.10 pound active ingredient) of this product per acre.	For Asparagus Aphids, make applications to new and young plantings.  For control of Asparagus Beetle and Spotted Asparagus Beetle, take samples early and continue sampling regularly throughout the season.
<b>USE RESTRICTIONS</b>		
<ul style="list-style-type: none"> <li>• Maximum applications: 2 per calendar year.</li> <li>• Do NOT apply more than once every 10 days.</li> <li>• Pre-Harvest Interval (PHI) = 1 day</li> <li>• Do NOT apply more than 4.6 ounces (0.2 pound active ingredient) per acre per calendar year regardless of application method.</li> </ul>		

### BLUEBERRIES AND OTHER BUSH and CANEBERRIES (within Crop Sub-Groups 13-07A and B) – Aronia Berry; Blackberry; Blueberry, highbush and lowbush; Buffalo Currant; Chilean Guava; Currant, red and black; Elderberry; European Barberry; Gooseberry; Cranberry, Highbush; Honeysuckle, edible; Huckleberry; Jostaberry; Juneberry; Lingonberry; Loganberry; Native Currant; Raspberry, black and red; Salal; Sea Buckthorn; Wild Raspberry; and cultivars, varieties and/or hybrids of these

Apply this product by air at a minimum finished spray volume of 5 gallons per acre or by ground at a minimum finished spray volume of 20 gallons per acre. For optimal pest control, thorough crop coverage is essential. Use the higher rate in the range when you are unsure of the susceptibility of the aphid or thrips species or when the aphid or thrips species is unknown.

#### SPECIFIC INSTRUCTIONS

PEST	APPLICATION USE RATE	USE INSTRUCTIONS
<b>Aphids, Leafhoppers</b>	Apply 1.0-2.3 ounces (0.044-0.10 pound active ingredient) of this product per acre.	Use the higher rate in the range when you are unsure of the susceptibility of the aphid species or when the aphid species is unknown.
<b>Whitefly</b>	Apply 1.7-2.3 ounces (0.075-0.10 pound active ingredient) of this product per acre.	

PEST	APPLICATION USE RATE	USE INSTRUCTIONS
Japanese Beetle, Blueberry Maggot, Sap Beetles, Tarnished Plant Bug, Strawberry Rootworm, Cherry Fruitworm, Cranberry Fruitworm, Flea Beetle, Spanworm, Thrips, Blueberry Gall Midge, Western Raspberry Fruit Worm (adult)	Apply 1.9-2.3 ounces (0.085-0.10 pound active ingredient) of this product per acre.	Use the higher rate in the range when you are unsure of the susceptibility of the thrips species or when the thrips species is unknown.
<b>USE RESTRICTIONS</b>		
<ul style="list-style-type: none"> <li>• Maximum applications: 5 per calendar year.</li> <li>• Do NOT apply more than once every 7 days.</li> <li>• Pre-Harvest Interval (PHI) = 1 day</li> <li>• Do NOT apply more than 11.4 ounces (0.5 pound active ingredient) per acre per calendar year regardless of application method.</li> </ul>		

**CITRUS (within Crop Group 10-10) – Calamondin; Citron; Citrus Hybrids; Grapefruit; Japanese Summer Grapefruit; Kumquat; Lemon; Lime; Lime, Australian Desert; Lime, Australian Finger; Lime, Australian Round; Lime, Brown River Finger; Lime, Mount White; Lime, Russell River; Lime, Sweet; Lime, Tahiti; Lime, New Guinea Wild; Mandarin, Mediterranean; Mandarin, Satsuma; Orange, Sour; Orange, Sweet; Orange, Tachibana; Orange, Trifoliolate; Pummelo; Tangelo; Tangor; Uniq Fruit; and cultivars, varieties and/or hybrids of these**

Apply this product to mature trees by air at a minimum finished spray volume of 20 gallons per acre or by ground at a minimum finished spray volume of 100 gallons per acre. For optimal pest control, use ground applications; thorough crop coverage is essential. Use the higher rate in the range when crop is under heavy pressure.

**SPECIFIC INSTRUCTIONS**

PEST	APPLICATION USE RATE	USE INSTRUCTIONS
Aphids	Apply 1.1-2.3 ounces (0.05-0.10 pound active ingredient) of this product per acre.	Use the higher rate in the range when you are unsure of the susceptibility of the aphid species or when the aphid species is unknown.
Citrus Thrips, Citrus Leafminer, Citrus Mealybug, Caribbean Black Scale, Glassywinged Sharpshooter	Apply 1.7-2.9 ounces (0.075-0.125 pound active ingredient) of this product per acre.	Use the higher rate in the range when crop is under heavy pest pressure.
Citricola Scale, Red Scale	Apply 3.4-5.7 ounces (0.15-0.25 pound active ingredient) of this product per acre.	Treat Citricola Scale in the spring and fall when crawlers are present. Addition of an approved horticultural oil will improve control. For scale on foliage and wood, adjust gallonage based on tree size. 750 to 1,500 gallons per acre is the optimal volume for Red Scale control.
Katydid	Apply 2.5-4.3 ounces (0.11-0.19 pound active ingredient) of this product per acre when Katydid first appear or at petal fall.	Make a repeat application in 2 to 3 weeks.

<b>Asian Citrus Psyllid</b>	Apply 3.0-5.7 ounces (0.13-0.25 pound active ingredient) of this product per acre when pests first appear.	Add a silicone-based adjuvant or horticultural oil to improve spray coverage and control. Scout groves regularly. Retreat as necessary but do not exceed the maximum application rate per acre per calendar year.
<b>USE RESTRICTIONS</b>		
<ul style="list-style-type: none"> <li>• Maximum applications: 5 per calendar year.</li> <li>• Do NOT apply more than once every 7 days.</li> <li>• Pre-Harvest Interval (PHI) = 7 days</li> <li>• Do NOT apply more than 12.5 ounces (0.55 pound active ingredient) per acre per calendar year regardless of application method.</li> </ul>		

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## CLOVER

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### For use only in Idaho, Oregon, and Washington

Apply this product by air at a minimum finished spray volume of 5 gallons per acre or by ground at a minimum finished spray volume of 20 gallons per acre. For optimal pest control thorough crop coverage is essential. Use the higher rate in the range when crop is under heavy pressure. **SPECIFIC INSTRUCTIONS**

PEST	APPLICATION USE RATE AND INSTRUCTIONS
<b>Aphids, including Clover and Pea Aphid</b>	Apply 1.1-1.7 ounces (0.05-0.075 pound active ingredient) of this product per acre.
<b>USE RESTRICTIONS</b>	
<ul style="list-style-type: none"> <li>• For use only in Idaho, Oregon, and Washington.</li> <li>• Do NOT apply more than once per acre per calendar year regardless of application method.</li> <li>• Pre-Harvest Interval (PHI) = 30 days</li> <li>• Do NOT apply more than 0.075 lb. active ingredient (1.7 ounces product) per acre per calendar year.</li> </ul>	

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## COTTON

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Apply via air or ground in a minimum finished spray volume of 5 gallons per acre. Use a minimum finished spray volume of 10 gallons per acre by ground under conditions of dense foliage or extreme pest populations.

For optimal pest control, thorough crop coverage is essential. If under heavy pressure by any of the pests listed below, use the high rate listed in the range.

### SPECIFIC INSTRUCTIONS

PEST	APPLICATION USE RATE	USE INSTRUCTIONS
<b>Aphids</b>	Apply 0.6-1.1 ounces (0.025-0.05 pound active ingredient) of this product per acre.	Use the higher rate in the range when you are unsure of the susceptibility of the aphid species or when the aphid species is unknown.  Foliar absorption can be affected after cutout which could affect aphid control. For best results after cutout, use a penetrating adjuvant (including oils) to increase contact or absorption and/or tank mix with a knockdown insecticide.
<b>Whitefly, Sweet Potato and Silver Leaf</b>	Apply 1.7-2.3 ounces (0.075-0.10 pound active ingredient) of this product per acre by air using a minimum of 5 gallons of water per acre, or by ground using a minimum of 15 gallons of water per acre.	Make applications when adult whiteflies first appear and before the development of nymphs. Apply prior to the establishment of heavy infestation. As long as pest infestation continues, make repeat applications a minimum of 7 days apart however do not apply more than 9.2 ounces (0.4 pound active ingredient) per acre per calendar year of this product nor exceed 4 applications per calendar year.  The tendency for resistance development in whiteflies has been observed. To reduce the potential for resistance, rotate applications of this product with insecticides that have a different mode of action.  Foliar absorption may be affected after cutout which could affect whitefly control. For best results after cutout, use a penetrating adjuvant (including oils) to increase contact or absorption and/or tank mix with a knockdown insecticide.
<b>Plantbugs</b> ( <i>Lygus</i> spp.)	Apply 1.1-2.3 ounces (0.05-0.10 pound active ingredient) of this product per acre.	Applications of this product may only achieve Plantbug suppression as species vary in susceptibility to this product. Achieving control may require that two applications be made 7-10 days apart.
<b>Fleahopper</b>	Apply 0.6-1.1 ounces (0.025-0.05 pound active ingredient) of this product per acre.	
<b>Thrips</b>	Apply 1.1-1.7 ounces (0.05-0.075 pound active ingredient) of this product per acre when damage by thrips is first noticed or expected.	Spray coverage and control may be improved with the addition of a surfactant.
<b>FOR USE AS AN OVICIDE</b>		
<b>Budworm, Bollworm</b>	Apply 0.6-1.1 ounces (0.025-0.05 pound active ingredient) of this product per acre.	Apply within 24 hours of egg lay.
<b>Whitefly</b>	Apply 1.7-2.3 ounces (0.075-0.10 pound active ingredient) of this product per acre.	Sustained control of migrating adult whiteflies will not be achieved when making applications for ovicidal control.
<b>USE RESTRICTIONS</b> <ul style="list-style-type: none"> <li>• Do NOT apply this product more than 4 times per acre per calendar year regardless of application method.</li> <li>• Do NOT apply more than once every 7 days.</li> <li>• Pre-Harvest Interval (PHI) = 28 days</li> <li>• Do NOT apply more than 9.2 ounces (0.4 pound active ingredient) per acre per calendar year regardless of application method.</li> </ul>		

**CUCURBITS (within Crop Group 9) – Chayote (fruit); Chinese Waxgourd (Chinese preserving melon); Citron Melon; Cucumber; Gherkin; Gourd, edible; *Momordica* spp.; Muskmelon (hybrids and/or cultivars of *Cucumis melo* including True Cantaloupe, Cantaloupe, Casaba, Crenshaw melon, Golden Pershaw Melon, Honeydew Melon, Honey Balls, Mango Melon, Persian Melon, Pineapple Melon, Santa Claus Melon, and Snake Melon); Pumpkin; Squash, summer and winter; Watermelon**

Apply this product by air at a minimum finished spray volume of 5 gallons per acre or by ground at a minimum finished spray volume of 20 gallons per acre. For optimal pest control thorough crop coverage is essential. If under heavy pressure by any of the pests listed below, use the high rate listed in the range.

**SPECIFIC INSTRUCTIONS**

PEST	APPLICATION USE RATE	USE INSTRUCTIONS
<b>Cucumber Beetle (Spotted, Striped, and Western Striped), Melonworm, Pickleworm</b>	Apply 1.1-2.3 ounces (0.05-0.10 pound active ingredient) of this product per acre.	<p>After application to Cucumber Beetle, adult beetles will stop feeding and death will follow within a few days.</p> <p>For applications to control Melonworm, make applications when foliar feeding is first noticed or when larvae are observed in the field.</p> <p>For applications to control Pickleworm, make applications at first bloom. Make additional applications as needed.</p> <p>Add a spray adjuvant, like a silicone-based surfactant or horticultural oil to improve spray coverage and control.</p>
<b>Squash Bug, Squash Vine Borer</b>	Apply 2.3 ounces (0.10 pound active ingredient) of this product per acre.	For optimal control of Squash Bug, make applications to newly laid eggs and nymphs.
<b>Aphids, Leafhoppers</b>	Apply 1.1-1.7 ounces (0.05-0.075 pound active ingredient) of this product per acre.	Use the higher rate in the range when you are unsure of the susceptibility of the aphid or leafhopper species or when the aphid species is unknown.
<b>Whitefly, Sweet Potato and Silver Leaf</b>	Apply 1.1-2.3 ounces (0.05-0.10 pound active ingredient) of this product per acre when adult whiteflies first appear and before the development of nymphs.	<p>Apply prior to the establishment of heavy infestation. As long as pest infestation continues, make repeat applications a minimum of 5-7 days apart however do not apply more than 11.5 ounces (0.5 pound active ingredient) per acre per calendar year of this product nor exceed 5 applications per calendar year. Add an adjuvant to improve spray coverage and control.</p> <p>The tendency for resistance development in whiteflies has been observed. To reduce the potential for resistance, rotate applications of this product with insecticides that have a different mode of action.</p>

**USE RESTRICTIONS**

- Maximum applications: 5 per calendar year.
- Do NOT apply more than once every 5 days.
- The maximum pre-transplant application rate is 0.15 pound acetamiprid per acre.
- Pre-Harvest Interval (PHI) = 0 days (may be applied same day as harvest)
- Do NOT apply more than 11.5 ounces (0.5 pound active ingredient) per acre per calendar year regardless of application method including pre-transplant applications.



**EDIBLE PODDED LEGUME VEGETABLES (within Crop Sub-Group 6A) and SUCCULENT SHELLED PEAS AND BEANS (within Crop Sub-Group 6B) – Bean (*Phaseolus* spp.), includes Lima Bean (Green), Runner Bean, Snap Bean, Wax Bean; Bean (*Vigna* spp.), includes Asparagus Bean, Blackeyed Pea, Chinese Longbean, Cowpea, Moth Bean, Southern Pea, Yardlong Bean; Broad Bean (succulent); Jackbean; Pea (*Pisum* spp.), includes Dwarf Pea, Edible-Pod Pea, English Pea, Garden Pea, Green Pea, Snow Pea, Sugar Snap Pea; Pigeon Pea; Soybean (immature seed); Sword Bean**

Apply this product by air at a minimum finished spray volume of 5 gallons per acre or by ground at a minimum finished spray volume of 20 gallons per acre. For optimal pest control, thorough crop coverage is essential.

Use the higher rate in the range when you are unsure of the susceptibility of the aphid or thrips species or when the aphid or thrips species is unknown.

**SPECIFIC INSTRUCTIONS**

PEST	APPLICATION USE RATE
<b>Aphids, Leafhoppers, Cucumber Beetles, Bean Leaf Beetle, Mexican Bean Beetle</b>	Apply 1.0-2.3 ounces (0.044-0.10 pound active ingredient) of this product per acre.
<b>Whitefly</b>	Apply 1.7-2.3 ounces (0.075-0.10 pound active ingredient) of this product per acre.
<b>Thrips</b>	Apply 1.9-2.3 ounces (0.085-0.10 pound active ingredient) of this product per acre.

**USE RESTRICTIONS**

- Maximum applications: 3 per calendar year.
- Do NOT apply more than once every 7 days.
- Pre-Harvest Interval (PHI) = 7 days
- Do NOT apply more than 6.9 ounces (0.3 pound active ingredient) per acre per calendar year regardless of application method.

**FRUITING VEGETABLES (within Crop Group 8-10) – African Eggplant; Bush Tomato; Cocona; Currant Tomato; Eggplant; Garden Huckleberry; Goji Berry; Groundcherry; Martynia; Naranjilla; Okra; Pea Eggplant; Pepino; Pepper, bell; Pepper, nonbell; Roselle; Scarlet Eggplant; Sunberry; Tomatillo; Tomato; Tree Tomato; and cultivars/hybrids of these**

Apply this product by air at a minimum finished spray volume of 5 gallons per acre or by ground at a minimum finished spray volume of 20 gallons per acre. For optimal pest control thorough crop coverage is essential. Use the higher rate in the range when you are unsure of the susceptibility of the aphid or thrips species or when the aphid or thrips species is unknown. If under heavy pressure by any of the pests listed below, use the high rate listed in the range.

**SPECIFIC INSTRUCTIONS**

<b>PEST</b>	<b>APPLICATION USE RATE</b>	<b>USE INSTRUCTIONS</b>
<b>Aphids</b>	Apply 0.8-1.7 ounces (0.035-0.075 pound active ingredient) of this product per acre when aphid treatment thresholds are reached.	
<b>Colorado Potato Beetle</b>	Apply 0.6-1.1 ounces (0.025-0.05 pound active ingredient) of this product per acre.	
<b>Whitefly; Sweet Potato, Silver Leaf, and Greenhouse (field use only)</b>	Apply 1.1-1.7 ounces (0.05-0.75 pound active ingredient) of this product per acre when adult whiteflies first appear and before the development of nymphs.	Apply prior to the establishment of heavy infestation. As long as pest infestation continues, make repeat applications a minimum of 7 days apart however do not apply more than 6.8 ounces (0.3 pound active ingredient) per acre per calendar year of this product nor exceed 4 applications per calendar year. Add an adjuvant to improve spray coverage and control.  The tendency for resistance development in whiteflies has been observed. To reduce the potential for resistance, rotate applications of this product with insecticides that have a different mode of action.
<b>Pepper Weevil</b>	Start applications at 1.1-1.7 ounces (0.05-0.075 pound active ingredient) of this product per acre when adult Pepper Weevils first appear and at the same time that flower buds and/or fruit are present.	Make repeat applications on 7 to 14 day intervals however do not apply more than 6.8 ounces (0.3 pound active ingredient) per acre per calendar year of this product nor exceed 4 applications per calendar year. If crop is under heavy infestation, make repeat applications at the 7-day interval.
<b>Thrips</b>	Apply 1.7 ounces (0.075 pound active ingredient) of this product per acre when thrips first appear.	Make repeat applications as needed however do not apply more than 6.8 ounces (0.3 pound active ingredient) per acre per calendar year of this product nor exceed 4 applications per calendar year. To reduce the potential for resistance, rotate applications of this product with insecticides that have a different mode of action.

**USE RESTRICTIONS**

- Maximum applications: 4 per calendar year.
- Do NOT apply more than once every 7 days.
- The maximum pre-transplant application rate is 0.15 pound acetamiprid per acre.
- Pre-Harvest Interval (PHI) = 7 days
- Do NOT apply more than 6.8 ounces (0.3 pound active ingredient) per acre per calendar year regardless of application method including pre-transplant applications.

**GRAPES & OTHER CLIMBING VINE SMALL FRUITS (except Fuzzy Kiwifruit) (within Crop Sub-Group 13-07F) – Amur River Grape; Gooseberry; Kiwifruit, hardy; Maypop; Schisandra Berry; and cultivars, varieties and/or hybrids of these**

Apply this product by air at a minimum finished spray volume of 5 gallons per acre or by ground at a minimum finished spray volume of 20 gallons per acre. For optimal pest control, thorough crop coverage is essential; use ground applications.

**SPECIFIC INSTRUCTIONS**

PEST	APPLICATION USE RATE	USE INSTRUCTIONS
<b>Aphids, Glassywinged Sharpshooter, Grape Berry Moth, Grape Cane Girdler, Leafhoppers</b> (including grape leafhopper and variegated leafhopper), <b>Mealybug</b> (including grape, obscure, and vine), <b>Thrips, Western Grapeleaf Skeletonizer</b>	Apply 1.1-2.3 ounces (0.05-0.10 pound active ingredient) of this product per acre.	For applications to control Western Grapeleaf Skeletonizer, make applications when larvae are witnessed feeding on leaves. To achieve thorough crop spray coverage, use a sufficient volume of water.
<b>Banded Grape Bug, Japanese Beetle, Phylloxera (aerial form only), Rose Chafer – NOT for use on these pests in CA, OR, and WA.</b>	Apply 1.1-2.3 ounces (0.05-0.10 pound active ingredient) of this product per acre.	After application to Japanese Beetle, adult beetles will stop feeding and death will follow within a few days.

**USE RESTRICTIONS**

- Not for use on Banded Grape Bug, Japanese Beetle, Phylloxera (aerial form only), and Rose Chafer in CA, OR, and WA.
- Maximum applications: 2 per calendar year.
- Do NOT apply more than once every 14 days.
- Spray adjuvants are NOT to be used.
- Pre-Harvest Interval (PHI) = 3 days
- Do NOT apply more than 4.6 ounces (0.2 pound active ingredient) per acre per calendar year regardless of application method.

**HEAD and STEM COLE CROPS (within Crop Sub-Group 5A) – Broccoli; Broccoli, Chinese (gai lon); Brussels Sprouts; Cabbage; Cabbage, Chinese (napa); Cabbage, Chinese Mustard (gai choy); Cauliflower; Cavalo Broccolo; Kohlrabi**

Apply this product by air at a minimum finished spray volume of 5 gallons per acre or by ground at a minimum finished spray volume of 20 gallons per acre. For optimal pest control thorough crop coverage is essential. Use the higher rate in the range when crop is under heavy pressure.

**SPECIFIC INSTRUCTIONS**

PEST	APPLICATION USE RATE	USE INSTRUCTIONS
<b>Aphids</b>	Apply 0.8-1.7 ounces (0.035-0.075 pound active ingredient) of this product per acre.	Use the higher rate in the range when you are unsure of the susceptibility of the aphid species or when the aphid species is unknown.

<b>PEST</b>	<b>APPLICATION USE RATE</b>	<b>USE INSTRUCTIONS</b>
<b>Whitefly; Sweet Potato, Silver Leaf, and Greenhouse (field use only)</b>	Apply 1.1-1.7 ounces (0.05-0.075 pound active ingredient) of this product per acre when adult whiteflies first appear and before the development of nymphs.	Apply prior to the establishment of heavy infestation. As long as pest infestation continues, make repeat applications a minimum of 7 days apart however do not apply more than 8.5 ounces (0.375 pound active ingredient) per acre per calendar year nor exceed 5 applications per calendar year. Add an adjuvant to improve spray coverage and control.  The tendency for resistance development in whiteflies has been observed. To reduce the potential for resistance, rotate applications of this product with insecticides that have a different mode of action.
<b>Diamondback Moth (suppression)</b>	Apply 1.7 ounces (0.075 pound active ingredient) of this product per acre when moths start to lay eggs.	Make repeat applications as needed however do not apply more than 8.5 ounces (0.375 pound active ingredient) per acre per calendar year nor exceed 5 applications per calendar year. Use this product as a tool in a pest control program to manage resistance.
<b>Thrips</b>	Apply 1.7 ounces (0.075 pound active ingredient) of this product per acre when thrips first appear.	Make repeat applications as needed however do not apply more than 8.5 ounces (0.375 pound active ingredient) per acre per calendar year nor exceed 5 applications per calendar year.  For optimal pest control, thorough crop coverage is essential as thrips will often seek the sheltered parts of plants. Adjust spray equipment such that a fine spray is produced for application. To prevent injury to cabbage, an application during the “cupping” stage can be useful. To reduce the potential for resistance, rotate applications of this product with insecticides that have a different mode of action.
<b>Swede Midge</b>	Apply 1.7 ounces (0.075 pound active ingredient) of this product per acre.	Controlling the first generation of Swede Midge in the area with a preventative spray will reduce the likelihood of population spikes later in the season.
<b>USE RESTRICTIONS</b>		
<ul style="list-style-type: none"> <li>• Maximum applications: 5 per calendar year.</li> <li>• Do NOT apply more than once every 7 days.</li> <li>• The maximum pre-transplant application rate is 0.15 pound acetamiprid per acre.</li> <li>• Pre-Harvest Interval (PHI) = 7 days</li> <li>• Do NOT apply more than 8.5 ounces (0.375 pound active ingredient) per acre per calendar year regardless of application method including pre-transplant applications.</li> </ul>		

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**LEAFY COLE CROPS (within Crop Sub-Group 5B) and TURNIP GREENS – Broccoli Raab (rapini); Cabbage, Chinese (boy choy); Collards; Kale; Mizuna; Mustard Greens; Mustard Spinach; Rape Greens; Turnip Greens**

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Apply this product by air at a minimum finished spray volume of 5 gallons per acre or by ground at a minimum finished spray volume of 30 gallons per acre. For optimal pest control, thorough crop coverage is essential. Use the higher rate in the range when you are unsure of the susceptibility of the aphid species or when the aphid species is unknown. If under heavy pressure by any of the pests listed below, use the high rate listed in the range.

**SPECIFIC INSTRUCTIONS**

PEST	APPLICATION USE RATE	USE INSTRUCTIONS
<b>Aphids</b>	Apply 0.8-2.3 ounces (0.035-0.10 pound active ingredient) of this product per acre.	
<b>Whitefly; Sweet Potato, Silver Leaf, and Greenhouse (field use only)</b>	Apply 1.1-2.3 ounces (0.05-0.10 pound active ingredient) of this product per acre when adult whiteflies first appear and before the development of nymphs.	Apply prior to the establishment of heavy infestation. As long as pest infestation continues, make repeat applications a minimum of 7 days apart but do not exceed the maximum application rate per acre per calendar year. Add an adjuvant to improve spray coverage and control.  The tendency for resistance development in whiteflies has been observed. To reduce the potential for resistance, rotate applications of this product with insecticides that have a different mode of action.
<b>Diamondback Moth (suppression), Flea Beetle</b>	Apply 1.7-2.3 ounces (0.075-0.10 pound active ingredient) of this product per acre when moths start to lay eggs.	Make repeat applications as needed but do not exceed the maximum application rate per acre per calendar year. Use this product as a tool in a pest control program to manage resistance.
<b>Thrips</b>	Apply 1.7-2.3 ounces (0.075-0.10 pound active ingredient) of this product per acre when thrips first appear.	Make repeat applications as needed but do not exceed the maximum application rate per acre per calendar year.  For optimal pest control, thorough crop coverage is essential as thrips will often seek the sheltered parts of plants. Adjust spray equipment such that a fine spray is produced for application. To prevent injury to cabbage, an application during the “cupping” stage can be useful. To reduce the potential for resistance, rotate applications of this product with insecticides that have a different mode of action.
<b>Harlequin Bug</b>	Apply 1.7-2.3 ounces (0.075-0.10 pound active ingredient) of this product per acre.	
<b>Swede Midge</b>	Apply 1.7-2.3 ounces (0.075-0.10 pound active ingredient) of this product per acre.	Controlling the first generation of Swede Midge in the area with a preventative spray will reduce the likelihood of population spikes later in the season.

**USE RESTRICTIONS**

- Maximum applications: 4 per calendar year.
- Do NOT apply more than once every 7 days.
- Do NOT harvest turnip root for food or feed purposes.
- The maximum pre-transplant application rate is 0.15 pound acetamiprid per acre.
- Pre-Harvest Interval (PHI) = 3 days
- Do NOT apply more than 8.5 ounces (0.375 pound active ingredient) per acre per calendar year regardless of application method including pre-transplant applications.

**LEAFY VEGETABLES (within Crop Group 4) – Amaranth; Arugula; Cardoon; Celery; Chinese Celery; Celtuce; Chervil; Chrysanthemum, edible leaved and garland; Corn Salad; Cress, garden and upland; Dandelion; Dock; Endive; Fennel, Florence; Lettuce, head and leaf; Orach; Parsley; Purslane, garden and winter; Radicchio; Rhubarb; Spinach, leaf; Spinach, New Zealand; Spinach, vine; Swiss Chard**

Apply this product by air at a minimum finished spray volume of 5 gallons per acre or by ground at a minimum finished spray volume of 20 gallons per acre. For optimal pest control, thorough crop coverage is essential. If under heavy pest pressure by any of the pests listed below, use the higher rate listed in the range.

**SPECIFIC INSTRUCTIONS**

<b>PEST</b>	<b>APPLICATION USE RATE</b>	<b>USE INSTRUCTIONS</b>
<b>Aphids</b>	Apply 0.8-1.7 ounces (0.035-0.075 pound active ingredient) of this product per acre.	Use the higher rate in the range when you are unsure of the susceptibility of the aphid species or when an aphid species that is difficult to control is present (e.g., foxglove aphid, lettuce aphid, red aphid, etc.).
<b>Whitefly; Sweet Potato, Silver Leaf, and Greenhouse (field use only)</b>	Apply 1.1-1.7 ounces (0.05-0.075 pound active ingredient) of this product per acre when adult whiteflies first appear and before the development of nymphs.	Apply prior to the establishment of heavy infestation. As long as pest infestation continues, make repeat applications a minimum of 7 days apart but do not apply more than 8.5 ounces (0.375 pound active ingredient) per acre per calendar year of this product nor exceed a total of 5 applications per calendar year. Add an adjuvant to improve spray coverage and control.  The tendency for resistance development in whiteflies has been observed. To reduce the potential for resistance, rotate applications of this product with insecticides that have a different mode of action.

<b>USE RESTRICTIONS</b>
<ul style="list-style-type: none"> <li>• Maximum applications: 5 per calendar year.</li> <li>• Do NOT apply more than once every 7 days.</li> <li>• The maximum pre-transplant application rate is 0.15 pound acetamiprid per acre.</li> <li>• Pre-Harvest Interval (PHI) = 7 days</li> <li>• Do NOT apply more than 8.5 ounces (0.375 pound active ingredient) per acre per calendar year regardless of application method including pre-transplant applications.</li> </ul>

**ONIONS and OTHER BULB VEGETABLES (within Crop Group 3-07) – Chives, fresh leaves; Chives, Chinese, fresh leaves; Daylily, bulbs; Elegans Hosta; Fritillaria, bulb and leaves; Garlic, bulb; Garlic, Great Headed, bulb; Garlic, Serpent, bulb; Kurrat; Lady’s Leek; Leek; Leek, wild; Lily, bulb; Onion, Beltsville Bunching; Onion, bulb; Onion, Chinese, bulb; Onion, fresh; Onion, green; Onion, Macrostem; Onion, Pearl; Onion, Potato, bulb; Onion, Tree, tops; Onion, Welsh, tops; Shallot, bulb; Shallot, fresh leaves; and cultivars, varieties, and/or hybrids of these**

Apply this product by air at a minimum finished spray volume of 5 gallons per acre or by ground at a minimum finished spray volume of 20 gallons per acre. For optimal pest control, thorough crop coverage is essential. Add a silicone-based surfactant or horticultural oil to improve spray coverage and control.

**SPECIFIC INSTRUCTIONS**

PEST	APPLICATION USE RATE	USE INSTRUCTIONS
<b>Thrips</b>	Apply 2.1-3.4 ounces (0.094-0.15 pound active ingredient) of this product per acre.	Use the higher rate in the range when you are unsure of the susceptibility of the thrips species or when the thrips species is unknown.
<b>USE RESTRICTIONS</b>		
<ul style="list-style-type: none"> <li>• Maximum applications: 4 per calendar year.</li> <li>• Do NOT apply more than once every 7 days.</li> <li>• The maximum pre-transplant application rate is 0.15 pound acetamiprid per acre.</li> <li>• Pre-Harvest Interval (PHI) = 7 days</li> <li>• Do NOT apply more than 13.7 ounces (0.6 pound active ingredient) per acre per calendar year regardless of application method including pre-transplant applications.</li> </ul>		

**POME FRUIT (within Crop Group 11-10) – Apple; Azarole; Crabapple; Loquat; Mayhaw; Hook; Medlar; Pear; Pear, Asian; Quince; Quince, Chinese; Quince, Japanese; Tejocote; and cultivars, varieties and/or hybrids of these**

Apply this product by air at a minimum finished spray volume of 10 gallons per acre or by ground at a minimum finished spray volume of 50 gallons per acre. For optimal pest control, thorough crop coverage is essential and use ground applications of complete sprays (spraying every row).

Make applications prior to the establishment of heavy infestation and before populations of insects reach harmful levels. Degree day models can be used for codling moth, leafminer, and certain other insects to determine the timing and interval of applications. Lasting pest control for labeled pests depends on the rate. Use the high rate listed in the range for best residual control. Add a spray adjuvant, like a high quality non-ionic surfactant to improve spray coverage and control. Add a horticultural oil for controlling mites, especially when conditions are favorable to an increase in mite populations. Consider mite population history and the use of other products in the orchard when evaluating whether a predisposition for mite population buildup may exist.

Additional information may be obtained from your local Crop Advisor, Extension Service representative, or a representative from LIBERTY CROP PROTECTION, LLC.

If under heavy pressure by any of the pests listed below, use the higher rate listed in the range.

**SPECIFIC INSTRUCTIONS**

PEST	APPLICATION USE RATE	USE INSTRUCTIONS
<b>Aphids, Leafhoppers</b>	Apply 1.1-1.7 ounces (0.05-0.075 pound active ingredient) of this product per acre.	For aphids, use the higher rate in the range when you are unsure of the susceptibility of the aphid species or when the aphid species is unknown. Use of the higher rate in the range and repeat applications may be required to control woolly apple aphid. Do not apply more than 13.5 ounces (0.6 pound active ingredient) per acre per calendar year of this product nor exceed a total of 4 applications per calendar year.

PEST	APPLICATION USE RATE	USE INSTRUCTIONS
<b>Tentiform Leafminer</b>	Apply 1.1 ounces (0.05 pound active ingredient) of this product per acre prior to larvae reaching the tissue feeding stage.	
<b>Codling Moth, Mealybug, Mullein Plant Bug (Campylomma), Psylla</b>	Apply 1.7-3.4 ounces (0.075-0.15 pound active ingredient) of this product per acre.	<p>Addition of a horticultural oil with this product has been observed to increase control of Codling Moth.</p> <p>For applications to control Mullein Plant Bug, do not apply when bee activity in the area is observed. Apply this product at pink bud through bloom and prior to petal fall when trying to prevent fruit damage from mullein plant bug.</p> <p>Psylla control may be suboptimal with summer applications.</p>
<b>European Apple Sawfly, Japanese Beetle, Lesser Apple Worm, Oriental Fruit Moth</b>	Apply 2.3-3.4 ounces (0.10-0.15 pound active ingredient) of this product per acre.	After application to Japanese Beetle, adult beetles will stop feeding and death will follow within a few days.
<b>Apple Maggot, Dogwood Borer, Plum Curculio, San Jose Scale (suppression)</b>	Apply 3.4 ounces (0.15 pound active ingredient) of this product per acre.	<p>For applications to control Apple Maggot, spray timing may be determined through the use of baited spheres.</p> <p>For applications to control Dogwood Borer, apply to tree trunks and make first application after moth emergence during egg-laying. Apply a second time 14 to 21 days later.</p> <p>For best results to control Plum Curculio, make one application at early petal fall followed by one or two additional thorough coverage spray applications during egg-laying.</p> <p>Make applications to control San Jose Scale during the crawler stage for optimal pest control. Add a horticultural oil to enhance control of San Jose Scale.</p>
<p><b>USE RESTRICTIONS</b></p> <ul style="list-style-type: none"> <li>• Maximum applications: 4 per calendar year.</li> <li>• Do NOT apply more than once every 12 days.</li> <li>• Pre-Harvest Interval (PHI) = 7 days</li> <li>• Do NOT apply more than 13.5 ounces (0.6 pound active ingredient) per acre per calendar year regardless of application method.</li> </ul>		

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**STONE FRUIT (within Crop Group 12) – Apricot; Cherry, sweet and tart; Nectarine; Peach; Plum, Chickasaw; Plum, Damson; Plum, Japanese; Plumcot; Prune, fresh**

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Apply this product by air at a minimum finished spray volume of 10 gallons per acre or by ground at a minimum finished spray volume of 50 gallons per acre. For optimal pest control, thorough crop coverage and complete row sprays are essential.

Lasting pest control for labeled pests depends on the rate. Use the high rate listed in the range for best residual control. Add a spray adjuvant, like a high quality silicone-based surfactant or horticultural oil to improve spray coverage and control. Degree day models in combination with pheromone traps can be used to determine the timing and interval of applications.

Additional information may be obtained from your local Crop Advisor, Extension Service representative, or a representative from LIBERTY CROP PROTECTION, LLC.



If under heavy pressure by any of the pests listed below, use the higher rate listed in the range.

**SPECIFIC INSTRUCTIONS**

<b>PEST</b>	<b>APPLICATION USE RATE</b>	<b>USE INSTRUCTIONS</b>
<b>Aphids, Leafhoppers</b>	Apply 1.1-2.3 ounces (0.05-0.10 pound active ingredient) of this product per acre.	For aphids, use the higher rate in the range when you are unsure of the susceptibility of the aphid species or when the aphid species is unknown.
<b>Glassywinged Sharpshooter</b>	Apply 1.7-3.4 ounces (0.075-0.15 pound active ingredient) of this product per acre.	
<b>Oriental Fruit Moth; Peach Twig Borer; Plum Curculio; Cat-facing Insects, e.g. plant bug and stinkbug (suppression)</b>	Apply 2.3-3.4 ounces (0.10-0.15 pound active ingredient) of this product per acre.	<p>Add a horticultural oil to improve spray coverage and control.</p> <p>For best results to control Plum Curculio, make one application at early petal fall followed by one or two additional thorough coverage spray applications during egg-laying. For control of subsequent generations, refer to local suggested practices.</p> <p>For best results to control Oriental Fruit Moth and Peach Twig Borer, apply with oil during the delayed-dormant period prior to bud break. Follow with applications at moth flights determined using degree day models.</p>
<b>Cherry Fruit Fly, Black Cherry Fruit Fly, Western Cherry Fruit Fly</b>	Apply 2.3-3.4 ounces (0.10-0.15 pound active ingredient) of this product per acre at adult emergence followed by applications at 10 day intervals through egg hatch, to not exceed a total of 4 applications per year.	For optimal control of fruit flies, suitable application timing is essential.
<b>San Jose Scale, Japanese Beetle, Rose Chafer</b>	Apply 2.3-3.4 ounces (0.10-0.15 pound active ingredient) of this product per acre.	<p>For best results to control San Jose Scale, apply with horticultural oil during the delayed-dormant or dormant period. Follow with in-season applications during the crawler stage. Add a horticultural oil to application made during the crawler stage to enhance control of San Jose Scale. When using oil, refer to local suggested practices.</p> <p>After application to Japanese Beetle, adult beetles will stop feeding and death will follow within a few days.</p>
<p><b>USE RESTRICTIONS</b></p> <ul style="list-style-type: none"> <li>• Maximum applications: 4 per calendar year.</li> <li>• Do NOT apply more than once every 10 days.</li> <li>• Pre-Harvest Interval (PHI) = 7 days</li> <li>• Do NOT apply more than 13.6 ounces (0.6 pound active ingredient) per acre per calendar year regardless of application method.</li> </ul>		

**STRAWBERRIES and OTHER LOW GROWING BERRIES (within Crop Sub-Group 13-07G) – Bearberry; Bilberry; Blueberry, Lowbush; Cloudberry; Cranberry; Lingonberry; Muntries; Partridgeberry; Strawberry; and cultivars, varieties, and/or hybrids of these**

Apply this product by air at a minimum finished spray volume of 10 gallons per acre or by ground at a minimum finished spray volume of 20 gallons per acre. For optimal pest control, thorough crop coverage is essential. If under heavy pressure by any of the pests listed below, use the higher rate listed in the range.

**SPECIFIC INSTRUCTIONS**

PEST	APPLICATION USE RATE	USE INSTRUCTIONS
<b>Blueberry Maggot, Spanworm, Cherry Fruitworm, Cranberry Fruitworm, Flea Beetle, Japanese Beetle, Oblique Banded Leaf Roller, Plantbugs (<i>Lygus</i> spp.) Sap Beetles, Thrips, Whiteflies, Fireworm (suppression), Gypsy Moth, Sparganothis Fruitworm, Cranberry Tipworm</b>	Apply 1.7-3.0 ounces (0.075-0.13 pound active ingredient) of this product per acre.	Use the higher rate in the range when you are unsure of the susceptibility of the thrips species or when the thrips species is unknown.
<b>Aphids, Leafhoppers, Spittlebug</b>	Apply 0.8-1.7 ounces (0.035-0.075 pound active ingredient) of this product per acre.	Use the higher rate in the range when you are unsure of the susceptibility of the aphid species or when the aphid species is unknown.
<p><b>USE RESTRICTIONS</b></p> <ul style="list-style-type: none"> <li>• Maximum applications: 2 per calendar year.</li> <li>• Do NOT apply more than once every 7 days.</li> <li>• For cranberry bogs treated with this product, do NOT flood within 60 days after application.</li> <li>• Do NOT grow more than one crop of cranberries per calendar year.</li> <li>• Pre-Harvest Interval (PHI) = 1 day</li> <li>• Do NOT apply more than 6.0 ounces (0.26 pound active ingredient) per acre per calendar year regardless of application method.</li> </ul>		

**SWEET CORN**

Apply this product by air at a minimum finished spray volume of 5 gallons per acre or by ground at a minimum finished spray volume of 20 gallons per acre. For optimal control, through spray coverage is essential.

**SPECIFIC INSTRUCTIONS**

PEST	APPLICATION USE RATE	USE INSTRUCTIONS
<b>Corn Flea Beetle, Northern Rootworm, Western Rootworm, Southern Rootworm, Beetles (adults), Corn (Dusky) Sap Beetle</b>	Apply 1.7-2.3 ounces (0.075-0.10 pound active ingredient) of this product per acre.	<p>Make up to 2 applications on a 14 day interval. Do not make applications within 7 days prior to harvest.</p> <p>When applications are made to control Corn Flea Beetle, scout fields regularly from emergence to when corn reaches 1 foot tall.</p> <p>For control of Northern, Western, and Southern Rootworm and adult beetles, make applications during the corn silking period. For control of Corn (Dusky) Sap Beetle, make applications during the corn tasseling and silking periods.</p>

PEST	APPLICATION USE RATE	USE INSTRUCTIONS
<b>Aphids, Corn Leaf Aphid and Vegetable Aphid</b>	Apply 0.9-1.2 ounces (0.04-0.054 pound active ingredient) of this product per acre.	Make up to 4 applications on a 14 day interval but only if applied in a tank mixture or rotated with an alternative insecticide. Do not apply within 1 day prior to harvest.
<b>Japanese Beetle, Stink Bugs (suppression), Corn Silk Fly (suppression)</b>	Apply 2.3 ounces (0.10 pound active ingredient) of this product per acre.	Make up to 2 applications on a 14 day interval during corn tussling and silking. Do not apply within 7 days prior to harvest.  For control of Japanese Beetle, make applications when beetles first appear. The corn crop is most susceptible to Japanese Beetle feeding during the silking period. Scout fields regularly starting when beetles first appear.
<b>USE RESTRICTIONS</b>		
<ul style="list-style-type: none"> <li>• Maximum applications: 2 at the 2.3 ounces product rate per calendar year or 4 at the 1.2 ounces product rate per calendar year. Refer to rates listed above.</li> <li>• Pre-Harvest Interval (PHI) = See PEST SPECIFIC INSTRUCTIONS</li> <li>• Do NOT apply more than 4.8 ounces (0.21 pound active ingredient) per acre per calendar year regardless of application method.</li> </ul>		

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## TOBACCO

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Apply this product by air at a minimum finished spray volume of 5 gallons per acre or by ground at a minimum finished spray volume of 20 gallons per acre. For optimal pest control, thorough crop coverage is essential. If under heavy pressure by any of the pests listed below, use the high rate listed in the range.

### SPECIFIC INSTRUCTIONS

PEST	APPLICATION USE RATE	USE INSTRUCTIONS
<b>Flea Beetles, Hornworms</b>	Apply 1.1-1.7 ounces (0.05-0.075 pound active ingredient) of this product per acre.	
<b>Aphids</b>	Apply 0.6-1.7 ounces (0.025-0.075 pound active ingredient) of this product per acre.	Use the higher rate in the range when you are unsure of the susceptibility of the aphid species or when the aphid species is unknown.
<b>FOR USE AS AN OVICIDE Budworm</b>	Apply 1.1-1.7 ounces (0.05-0.075 pound active ingredient) of this product per acre.	
<b>USE RESTRICTIONS</b>		
<ul style="list-style-type: none"> <li>• Maximum applications: 4 per calendar year.</li> <li>• Do NOT apply more than once every 7 days.</li> <li>• Pre-Harvest Interval (PHI) = 7 days</li> <li>• Do NOT apply more than 6.8 ounces (0.3 pound active ingredient) per acre per calendar year regardless of application method.</li> </ul>		

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## TREE NUTS (within Crop Group 14) including PISTACHIO – Almond; Beech Nut; Brazil Nut; Butternut; Cashew; Chestnut; Chinquapin; Filbert (Hazelnut); Hickory Nut; Macadamia Nut (Bush Nut); Pecan; Pistachio; Walnut, Black and English (Persian)

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Apply this product by air at a minimum finished spray volume of 10 gallons per acre or by ground at a minimum finished spray volume of 50 gallons per acre. For optimal pest control, thorough crop coverage is essential and use complete sprays (spraying every row).

Degree day models in combination with pheromone traps can be used to determine the timing and interval of applications. Additional information may be obtained from your local Crop Advisor, Extension Service representative, or a representative from LIBERTY CROP PROTECTION, LLC.

If under heavy pressure by any of the pests listed below or dense foliage is present, use the high rate listed in the range.

### SPECIFIC INSTRUCTIONS

PEST	APPLICATION USE RATE	USE INSTRUCTIONS
<b>Aphids, Leafhoppers</b>	Apply 1.1-4.1 ounces (0.05-0.18 pound of active ingredient) of this product per acre.	Use the higher rate in the range when you are unsure of the susceptibility of the aphid species or when the aphid species is unknown or when trying to control Black Pecan Aphid. For optimal pest control, use the higher rate in the range when applying to mature trees. Add an adjuvant to enhance spray coverage and pest control.
<b>Glassywinged Sharpshooter, Pecan Nut Casebearer</b>	Apply 1.7-2.9 ounces (0.075-0.125 pound active ingredient) of this product per acre.	
<b>Codling Moth, Oriental Fruit Moth, Peach Twig Borer, San Jose Scale, Hickory Shuckworm, Pecan Weevil, Red Humped Caterpillar, Filbertworm, Naval Orangeworm</b>	Apply 2.3-4.1 ounces (0.10-0.18 pound active ingredient) of this product per acre.	<p>Lasting pest control for labeled pests depends on the rate. Use the high rate listed in the range for best residual control when applying to mature, tall trees with dense foliage and for best results when controlling Pecan Weevil. Add a horticultural oil to enhance control. When using oil, refer to local suggested practices.</p> <p>For best results to control Oriental Fruit Moth and Peach Twig Borer, apply with oil during the delayed-dormant period prior to bud break. Follow with in-season applications at moth flights determined using degree day models.</p> <p>For best results to control Codling Moth, make in-season applications at moth flights determined using degree day models.</p> <p>For best results to control San Jose Scale, apply with horticultural oil during the delayed-dormant or dormant period. Follow with in-season applications during the crawler stage.</p>
<b>Walnut Husk Fly</b>	Apply 2.7-3.4 ounces (0.12-0.15 pound active ingredient) of this product per acre when adult egg-producing (gravid) females are first observed.	Make application with husk fly bait using the specified rate. Make a repeat application, if necessary, 3-4 weeks later.
<b>Gill's Mealybug</b>	Apply 3.4 ounces (0.15 pound active ingredient) of this product per acre in early to mid-June when crawlers first appear.	To achieve thorough crop spray coverage, use a sufficient volume of water. For best results, use a horticultural oil or penetrating adjuvant (does not include stickers) to increase pest control.

### USE RESTRICTIONS

- Maximum applications: 4 per calendar year.
- Do NOT apply more than once every 14 days.
- Pre-Harvest Interval (PHI) = 14 days
- Do NOT apply more than 16.4 ounces (0.72 pound active ingredient) per acre per calendar year regardless of application method.

**TUBEROUS AND CORM VEGETABLES (within Crop Sub-Group 1C) – Arracacha; Arrowroot; Artichoke, Chinese; Artichoke, Jerusalem; Canna, edible; Cassava, bitter and sweet; Chayote, root; Chufa; Dasheen; Ginger; Leren; Potato; Sweet Potato; Tanier; Tumeric; Yam Bean; Yam, true**

Apply this product by air at a minimum finished spray volume of 5 gallons per acre or by ground at a minimum finished spray volume of 20 gallons per acre. For optimal pest control, thorough crop coverage is essential. If under heavy pressure by any of the pests listed below or dense foliage is present, use the high rate listed in the range.

**SPECIFIC INSTRUCTIONS**

<b>PEST</b>	<b>APPLICATION USE RATE</b>	<b>USE INSTRUCTIONS</b>
<b>Aphids</b>	Apply 1.0-1.7 ounces (0.044-0.075 pound active ingredient) of this product per acre.	Use the higher rate in the range when you are unsure of the susceptibility of the aphid species or when the aphid species is unknown.  Use 1.7 ounces of this product per acre if applying through overhead sprinkler irrigation to emerged potato foliage. Refer to the DIRECTIONS FOR CHEMIGATION section of this label for more details.
<b>Leafhoppers, Colorado Potato Beetle, Cucumber Beetle</b>	Apply 0.6-1.7 ounces (0.025-0.075 pound active ingredient) of this product per acre.	For Colorado Potato Beetle, use 1.0-1.7 ounces of this product per acre if applying through overhead sprinkler irrigation to emerged potato foliage. Refer to the DIRECTIONS FOR CHEMIGATION section of this label for more details.  For Leafhopper, use 1.7 ounces of this product per acre if applying through overhead sprinkler irrigation to emerged potato foliage. Refer to the DIRECTIONS FOR CHEMIGATION section of this label for more details.
<b>Flea Beetle</b>	Apply 0.6-1.1 ounces (0.025-0.05 pound active ingredient) of this product per acre.	
<b>FOR USE AS AN OVICIDE European Corn Borer</b>	Apply 1.1-1.7 ounces (0.05-0.075 pound active ingredient) of this product per acre.	
<p><b>USE RESTRICTIONS</b></p> <ul style="list-style-type: none"> <li>• Maximum applications: 4 per calendar year.</li> <li>• Do NOT apply more than once every 7 days.</li> <li>• If an acetamiprid seed treatment application has been made, do NOT make a foliar application to the same crop.</li> <li>• Pre-Harvest Interval (PHI) = 7 days</li> <li>• Do NOT apply more than 7.0 ounces (0.3 pound active ingredient) per acre per calendar year regardless of application method.</li> </ul>		

## **STORAGE AND DISPOSAL**

Do not contaminate water, food or feed by storage or disposal.

**PESTICIDE STORAGE:** ALWAYS STORE PESTICIDES IN THE ORIGINAL CONTAINER. Store away from food, pet food, feed, seed, fertilizers, veterinary supplies, and the home. The storage area must be locked, dry, cool, well-lit, and well-ventilated. Do not store where temperatures exceed 115°F (46°C).

**PESTICIDE DISPOSAL:** Water, food, or feed contaminated with this product is unfit for human or animal consumption. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

### **CONTAINER DISPOSAL:**

**PLASTIC CONTAINERS** Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration.

**LINED FIBER DRUM** Nonrefillable container. Do not reuse or refill this container. Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Then offer for recycling if available or dispose of empty bag in a sanitary landfill or by incineration. If drum is contaminated and cannot be reused, dispose of it in the manner required for its liner.

## **CONDITION OF SALE AND LIMITATION OF WARRANTY AND LIABILITY**

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

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather, presence of other materials or other influencing factors in the use of the product, which are beyond the control of LIBERTY CROP PROTECTION LLC or Seller. To the extent consistent with applicable law, all such risks shall be assumed by Buyer and User, and Buyer and User agree to hold LIBERTY CROP PROTECTION LLC and Seller harmless for any claims relating to such factors.

To the extent consistent with applicable law, LIBERTY CROP PROTECTION LLC 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, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or LIBERTY CROP PROTECTION LLC, and Buyer and User assume the risk of any such use. LIBERTY CROP PROTECTION LLC MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

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