

# RESTRICTED USE PESTICIDE

Toxic to fish and aquatic organisms.

For retail sale to and use only by certified applicators, or persons under the direct supervision and only for the uses covered by the certified applicator's certification.

# INSECTICIDE



**GROUP 3 INSECTICIDE**

FOR MIXING DIRECTLY WITH LIQUID FERTILIZER TO CONTROL LISTED SOIL INSECT PESTS

**ACTIVE INGREDIENT:**

Bifenthrin\*..... **% BY WT.**  
17.15%

OTHER INGREDIENTS\*\*..... 82.85%

**TOTAL:** ..... **100.00%**

\*Cis Isomers 97% minimum, trans isomers 3% maximum.

\*\*Contains petroleum distillates

This product contains 1.5 pounds active ingredient per gallon.

## KEEP OUT OF REACH OF CHILDREN WARNING / AVISO

This label must be in the possession of the user at the time of application.

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 other panels for additional precautionary information.

EPA Reg. No.: 89168-36-89391



Distributed By:  
**INNVICTIS® CROP CARE, LLC**  
1880 Fall River Drive, Suite 100  
Loveland, CO 80538

110817RD103019

FIRST AID	
<b>If Swallowed</b>	<ul style="list-style-type: none"> <li>Call poison control center or doctor immediately for treatment advice.</li> <li><b>DO NOT</b> give any liquid to the person.</li> <li><b>DO NOT</b> induce vomiting unless told to do so by the poison control center or doctor.</li> <li><b>DO NOT</b> 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 eye.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If On Skin</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>HOTLINE 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 EMERGENCY MEDICAL ASSISTANCE CALL: <b>1-800-222-1222</b> . FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident call <b>1-800-424-9300</b> .	
<b>NOTE TO PHYSICIAN</b> - This product is a pyrethroid. If large amounts have been ingested, the stomach and intestines should be evacuated. Treatment is symptomatic and supportive. Digestible fats, oils, or alcohol may increase absorption and should be avoided. <b>Contains Petroleum distillates.</b> Vomiting may cause aspiration pneumonia.	

**PRECAUTIONARY STATEMENTS**  
**Hazards to Humans and Domestic Animals**  
**WARNING / AVISO**

May be fatal if swallowed. Causes moderate eye irritation. Harmful if absorbed through skin. Avoid contact with eyes, skin or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco.

**PERSONAL PROTECTIVE EQUIPMENT**

**Applicators and other handlers (other than mixers and loaders) must wear:**

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks
- Protective eyewear (goggles, face shield, or safety glasses)

**Mixers and Loaders must wear:**

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks
- Protective eyewear

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

**USER SAFETY RECOMMENDATIONS**

**Users should:**

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

**ENVIRONMENTAL HAZARDS**

This pesticide is extremely toxic to fish and aquatic invertebrates. Use with care when applying in areas adjacent to any body of water. **DO NOT** apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. **DO NOT** make applications when weather conditions favor drift from treated areas. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. **DO NOT** contaminate water when disposing of equipment washwaters.

**ENVIRONMENTAL HAZARDS cont'd**

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. **DO NOT** apply this product or allow it to drift to blooming crops or weeds while bees are foraging the treatment area.

The use of bifenthrin is prohibited in areas that may result in exposure of endangered species to bifenthrin. Prior to use in a particular county contact the local extension service for procedures and precautions to use to protect endangered species.

**DIRECTIONS FOR USE**  
**RESTRICTED USE PESTICIDE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

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

**DO NOT** apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

**AGRICULTURAL USE REQUIREMENTS**

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

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

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is: Coveralls, Chemical-resistant gloves, such as Barrier Laminate or Nitrile Rubber or Neoprene Rubber or Viton, Shoes plus Socks and Protective Eyewear (goggles, face shield, or safety glasses)

**RESISTANCE MANAGEMENT**

Some pests are known to develop resistance to insecticides that have been used repeatedly. While the development of insect resistance is well understood, it is not easily predicted. Therefore insecticides should be used in conjunction with the resistance management strategies in the area. Consult the local or State agricultural advisors for details. If insect resistance should develop in the area, this product used alone may not continue to provide sufficient levels of pest control. If the reduced levels of control cannot be attributed to improper application techniques, improper use rates, improper application timing, unfavorable weather conditions or abnormally high pest pressure, a resistant strain may have developed.

To reduce the potential for pesticide resistance, use this product in a rotation program with other classes of chemistry and modes of action. Apply this product at the labeled rates and in accordance with the use directions. It is not recommended to use less than recommended labeled rates alone or in tank mixtures. It is not recommended to use reduced rates of the tank mix partner. For optimum performance, scout fields carefully and begin applications when pests are smaller rather than larger. If resistance is suspected, contact the local or State agricultural advisors.

**APPLICATION AND MIXING INSTRUCTIONS**

**NIRVANA RTU** is an insecticide/miticide that contains 1.5 pounds of bifenthrin per gallon. **NIRVANA RTU** can be mixed directly with liquid fertilizer or water. The rate of application is variable according to pest pressure, timing of treatments and field scouting. Use lower rates under light to moderate pest infestations, and higher rates under heavier pest pressure. In arid climates, applications rates are generally higher. Fill the tank one-half full with liquid fertilizer or water and begin spray tank agitation. Add the proper amount of **NIRVANA RTU** and then add the rest of the fertilizer or water. Maintain agitation until the mixture has been applied.

**SHAKE WELL BEFORE USING**

Agitate the **NIRVANA RTU** spray solutions in nurse tanks prior to moving the solution to spray system.

Cultivation within 10 feet of a water body is prohibited to allow for the growth of a vegetated filter strip.

In New York State, this product may not be applied within 100 feet (using ground equipment) to 300 feet (using aerial equipment) of coastal marshes or streams that drain into coastal marshes.

**NIRVANA RTU** can be applied in-furrow with the seed, as a T-band (band over the open furrow), as a broadcast application, as a band over the row or as a transplant-water drench during setting. Refer to the tables below for pest control or suppression instructions.

**NIRVANA RTU** can be mixed with commonly used liquid starter or pop-up fertilizers. Follow liquid fertilizer recommendations regarding seed safety and use guidelines. Conduct a preliminary jar test using the appropriate ratio of fertilizer and **NIRVANA RTU**. **DO NOT** allow a tank mixture to set overnight, but if this occurs agitate tank mixture prior to application.

#### Crop Rotation Restrictions

Crops for which bifenthrin tolerances exist may be rotated at any time. All other crops may be rotated 30 days following the final application of bifenthrin.

#### Tank Mixtures

**NIRVANA RTU** may be applied in tank mixtures with other products approved for use on registered crops. Observe all restrictions and precautions which appear on the labels of these products. To insure successful applications, product compatibility tests should be conducted.

#### Maximum Allowable NIRVANA RTU Use Per Acre Per Season

Refer to the individual crop sections for maximum allowable **NIRVANA RTU** usage per acre per season. The maximum allowable use must include all registered use patterns including at-plant, soil applied and/or foliar applications for the 12 month period. The 12 month period is to begin upon the initial application to the acre.

### BUFFER ZONES

#### Vegetative Buffer Zones

Construct and maintain a minimum 10 foot wide vegetative filter strip of grass or other permanent vegetation between the field edge and down gradient aquatic habitat (such as, but not limited to, lakes, reservoirs, rivers, permanent streams, marshes or natural ponds; estuaries; and commercial fish farm ponds).

Only apply products containing bifenthrin onto fields where a maintained vegetative buffer strip of at least 10 feet exists between the field and down gradient aquatic habitat.

For guidance, refer to the following publication for information on constructing and maintaining effective buffers: Conservation Buffers to Reduce Pesticide Losses. Natural Resources Conservation Services. USDA, NRCS. 2000. Fort Worth, Texas. 25pp. <https://www.nrcs.usda.gov/wps/portal/nrcs/detail/ful/national/technical/ecoscience/invasive/?cid=stelprdb1044506>.

**Buffer Zone for Ground Application (groundboom, overhead, or airstab) – DO NOT** apply within 25 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, streams, marshes, natural ponds, estuaries, and commercial fish ponds).

**Buffer Zone for ULV Aerial Application – DO NOT** apply within 450 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, streams, marshes, natural ponds, estuaries, and commercial fish ponds).

**Buffer Zone for Non-ULV Aerial Application – DO NOT** apply within 150 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, streams, marshes, natural ponds, estuaries, and commercial fish ponds).

### SPRAY DRIFT REQUIREMENTS

#### Wind Direction and Speed

Only apply this product if the wind direction favors on target deposition. **DO NOT** apply when the wind velocity exceeds 15 mph.

#### Temperature Inversion

**DO NOT** make aerial or ground applications into temperature inversions. Inversions are characterized by stable air and increasing temperatures with height above the ground. Mist or fog may indicate the presence of an inversion in humid areas. The applicator may detect the presence of an inversion by producing smoke and observing a smoke layer near the ground surface.

#### Droplet Size

Use only Medium or coarser spray nozzles (for ground and non-ULV aerial application) according to ASAE (S572) definition for standard nozzles. In conditions of low humidity and high temperatures, applicators should use a coarser droplet size. Low humidity and high temperatures increase the rate of spray droplets and therefore the likelihood of increased spray drift to aquatic areas.

#### Additional Requirements for Ground Applications

Wind speed must be measured adjacent to the application site on the upwind side, immediately prior to application.

For ground boom applications, apply using a nozzle height of no more than 4 feet above the ground or crop canopy.

For airstab applications, turn off outward pointing nozzles at row ends and when spraying the outer two rows. To minimize spray loss over the top in orchard applications, spray must be directed into the canopy.

#### Additional Requirements for Aerial Applications

The spray boom should be mounted on the aircraft as to minimize drift caused by wingtip or rotor vortices. The minimum practical boom length should be used and must not exceed 75% of the wing span or 80% rotor diameter.

Flight speed and nozzle orientation must be considered in determining droplet size. Spray must be released at the lowest height consistent with pest control and flight safety. **DO NOT** release spray at a height greater than 10 feet above the crop canopy unless a greater height is required for aircraft safety.

When applications are made with a crosswind, the swath will be displaced downwind. The applicator must compensate for this displacement at the downwind edge of the application area by adjusting the path of the aircraft upwind.

### BRASSICAS

**Head and Stem Brassica Vegetables including: Broccoli, Chinese Broccoli (gailon, white flowering broccoli), Brussels Sprouts, Cauliflower, Cavallo broccoli, Kohlrabi, Cabbage, Chinese Cabbage (napa), and Chinese Mustard Cabbage (gai choy).**

When applied as directed, **NIRVANA RTU** will provide control of the following pests listed in the table below. Apply as a 5-7 inch band (T-band) over the open seed furrow, or in-furrow with the seed. Cutworm and armyworm treatments may be applied as broadcast treatments to the soil surface.

PEST	USE RATES		
	Fluid oz/acre	Fluid oz/1000 Linear ft.	Pound ai/acre
Rootworm larvae	6.8 to 8.5	0.39 to 0.49	0.08 to 0.1
Wireworm Grubs Seedcorn maggot Cabbage maggot Root maggots Root aphids Army cutworm Cutworm spp. Armyworm spp.	3.4 to 6.8	0.2 to 0.39	0.04 to 0.08

#### Restrictions:

**DO NOT** apply more than 0.1 pound active ingredient per acre per season as an at-plant application.

**DO NOT** apply more than 0.5 pound active ingredient per acre per season including at-plant plus foliar applications of other bifenthrin products

## BUSHBERRIES (FOLIAR)

### Blueberry, highbush and lowbush, Currant, Elderberry, Gooseberry, Huckleberry

When applied as directed, *NIRVANA RTU* will provide control of the following pests listed in the table below.

PEST	USE RATES	
	Fluid oz/acre	Pound ai/acre
Blueberry maggot, Fruitworms, Lecanium scale (crawlers) Plum curculio Obliquebanded leaf roller Red banded leafroller Variegated leafroller Spanworm Leafhoppers Aphids	3.4 to 8.5	0.04 to 0.1
Banks Grass Mite Twospotted Spider Mite Carmine Mite Pacific Spider Mite Lygus Spp.	6.8 to 8.5	0.08 to 0.1

#### Restrictions:

Apply in a minimum of 2 gallons of finished spray per acre by air or in a minimum of 10 gallons finished spray per acre with ground equipment. Thorough coverage is essential to achieve control.

**DO NOT** apply more than 0.5 pound active ingredient per acre per season.

**DO NOT** make applications less than 7 days apart.

## CILANTRO, CORIANDER

When applied as directed, *NIRVANA RTU* will provide control of the following pests listed in the table below. Apply as a 5 to 7 inch band over the row on the soil surface, a 5 to 7 inch band over the open furrow (T-band) in-furrow with the seed, or broadcast to the soil surface.

PEST	USE RATES		
	Fluid oz/acre	Fluid oz/1000 Linear ft.	Pound ai/acre
Wireworm Flea beetle larvae Cutworm spp. Armyworm spp.	3.4 to 6.8	0.2 to 0.39	0.04 to 0.08

#### Restrictions:

**DO NOT** apply more than 0.1 pound active ingredient per acre per season as an at-plant application.

**DO NOT** apply more than 0.5 pound active ingredient per acre per season including at-plant plus foliar applications of other bifenthrin products.

## CITRUS (BARE SOIL SURFACE UNDER DRIP LINE)

When applied as directed, *NIRVANA RTU* will provide control of the following pests listed in the table below. Apply *NIRVANA RTU* by ground equipment to bare soil beneath citrus trees. *NIRVANA RTU* must be uniformly applied from the trunk to the drip line of tree. Apply in a minimum of 40 gallons of dilute spray per acre.

Greater spray volume should insure greater uniformity of coverage. A pre and post application irrigation may aid in the uniformity of coverage as well.

*NIRVANA RTU* protects citrus tree roots from Diaprepes and other citrus root weevil feeding by forming a barrier which provides contact activity on newly hatched larvae (neonates). As citrus root weevil eggs hatch in new foliage, neonates fall to the soil surface beneath the tree and come in contact with *NIRVANA RTU* as they attempt to burrow into the root zone. Disturbance of the soil beneath trees should be minimized.

Timing of *NIRVANA RTU* applications is critical. Current information suggests that peak emergence of adult Diaprepes Weevil varies by citrus growing region and these emergence peaks can be dramatically affected by environmental factors, such as soil moisture. Typically, two peaks are observed for Diaprepes, first in spring then late summer or early fall. Southern Blue-Green and Blue-Green Citrus Weevils and Fuller Rose Beetle typically exhibit a single emergence peak in the spring. Brown and Little Leaf Notchers typically exhibit three emergence peaks, spring, summer and fall. Since emergence varies seasonally and by location, timing of *NIRVANA RTU* application can be accurately forecast by observing adults. Adults are most active early morning and late afternoon; numbers can be estimated by trapping throughout spring and summer (emergence periods). Egg laying will occur for 8 to 10 weeks following adult emergence from the soil; larval invasion of the soil will begin 2 to 3 weeks following adult emergence. It is critical to have the *NIRVANA RTU* soil barrier in place prior to drop of the neonates.

*NIRVANA RTU* is one of several effective tools in an integrated pest management program for Citrus Root Weevils. Application of *NIRVANA RTU* should be used in conjunction with good cultural practices, biological control of larvae and foliar control of adults. Consult local university extension personnel for current information to protect citrus trees from Citrus Root Weevils and other pests.

Apply to individual citrus resets, when not in solid planted rows, using hand gun or shielded sprayer.

Peak emergence of Diaprepes root weevil generally occurs in the spring. Depending on weather conditions, a minor emergence of Diaprepes root weevil may also occur in the fall. If the citrus grove to be treated is in an area where weather conditions are conducive to primary emergence occurring in the spring, 42.5 fluid ounces formulated product should be used to obtain the longest residual management of Diaprepes root weevil. If the citrus grove to be treated is in an area where weather conditions will promote more than one peak of pest emergence, 21.25 fluid ounces formulated product can be applied early season and 21.25 fluid ounces formulated product can be applied later in the season.

PEST	USE RATES	
	Fluid oz/acre	Pound ai/acre
Asian cockroach ( <i>Blattella asahinae</i> )	8.5 to 21.25	0.1 to 0.25
Diaprepes Root Weevil ( <i>Diaprepes abbreviatus</i> ) Southern Blue Green Citrus Root Weevil ( <i>Pachnaeus litus</i> ) Blue Green Citrus Root Weevil ( <i>Pachnaeus opalus</i> ) Brown Leaf Notcher ( <i>Epicraerus mexicanus</i> ) Little Leaf Notcher ( <i>Artipus floridanus</i> )	21.25 to 42.5	0.25 to 0.50

#### Restrictions:

**DO NOT** apply through irrigation systems.

**DO NOT** allow any application of *NIRVANA RTU* to contact fruit or foliage.

**DO NOT** apply more than a total of 42.5 fluid ounces of formulated product (0.5 pound active ingredient) per acre per year.

Apply the specified dosage in a minimum of 40 gallons of finished spray per acre.

**DO NOT** apply by air.

### CORN (AT PLANT)

#### Field Corn (Grain and Silage), Popcorn, Field Corn Grown for Seed, Sweet Corn, Sweet Corn Grown for Seed

When applied as directed, *NIRVANA RTU* will provide control of the following pests listed in the table below. Apply as a 5 to 7 inch band (T band) over an open furrow, or in-furrow with the seed. Position the spray nozzle behind the planter shoe in front of the press wheel centered over the row. For Army cutworm, Stalkborer, Cutworm spp., True armyworm or Armyworm spp., apply as a 5 to 7 inch band over the row on the soil surface, a 5 to 7 inch band over the open furrow (T-band), in-furrow with the seed, or broadcast to the soil surface.

PEST	USE RATES		
	Fluid oz/acre	Fluid oz/1000 Linear ft.	Pound ai/acre
Corn Rootworm larvae (Northern, Southern and Western)	6.8 to 17.0	0.39 to 0.98	0.08 to 0.2
Wireworm Grape colaspis Grubs Seedcorn maggot Root aphids Army cutworm Cutworm spp. True armyworm Armyworm spp. Stalkborer Seed corn beetle Sugarcane beetle	3.4 to 13.6	0.2 to 0.78	0.04 to 0.16

**Restrictions:**

**DO NOT** apply more than 0.2 pound active per acre per season as an at-plant application.

**For field corn- DO NOT** apply more than 0.3 pound active ingredient per acre per season including ppi, at-plant, pre-emergence, and foliar applications of other bifenthrin products.

**For sweet corn- DO NOT** apply more than 0.2 pound active ingredient per acre total per season including ppi, at-plant, pre-emergence, and foliar applications of other bifenthrin products.

### CORN (PRE & PPI)

#### Field Corn (Grain and Silage), Popcorn, Field Corn Grown for Seed, Sweet Corn, Sweet Corn Grown for Seed

When applied as directed, *NIRVANA RTU* will provide control of the following pests listed in the table below. For PPI treatments, the 4 to 5.3 fluid oz/A rate must be used. *NIRVANA RTU* can be tank mixed and applied with PPI herbicides. Incorporation of *NIRVANA RTU* should not be any deeper than the intended planting depth and no deeper than 3 inches. Incorporation depth should be close to the intended seed planting depth.

For PRE treatments, the 3.4 fluid oz/A rate may be applied and can be tank mixed and applied with PRE herbicides.

PEST	USE RATES	
	Fluid oz/acre	Pound ai/acre
Black Cutworm Grape colaspis White Grub Wireworm Seedcorn Maggot Armyworm spp. Seed corn beetle	4 to 5.3 Pre-Plant Incorporated (PPI)	0.047 to 0.062 Pre-Plant Incorporated (PPI)
Black Cutworm Armyworm spp. Stalkborer Seed corn beetle	3.4 Pre-Emergence (PRE)	0.04 Pre-Emergence (PRE)

**Restrictions:**

**For field corn- DO NOT** apply more than 0.6 pound active ingredient per acre total per season including ppi, at-plant, pre-emergence, and foliar applications of other bifenthrin products.

**For sweet corn - DO NOT** apply more than 0.2 pound active ingredient per acre total per season including ppi, at-plant, pre-emergence, and foliar applications of other bifenthrin products.

**FIELD CORN (GRAIN AND SILAGE), POPCORN, FIELD CORN GROWN FOR SEED (FOLIAR USE)**

Apply as directed using the rates in the table below.

PEST	RATE	APPLICATION INSTRUCTIONS
Aphids Army Cutworm Beet Armyworm Cereal Leaf Beetle Chinch Bug Common Stalk Borer Corn Earworm Corn Rootworm Adult Cucumber Beetle Adults Cutworm Species European Corn Borer Fall Armyworm Flea Beetle Grasshoppers Greenbug Japanese Beetle Adult Sap Beetle Southern Armyworm Southern Corn Leaf Beetle Southwestern Corn Borer Stinkbugs Tarnished Plant Bug True Armyworm or Armyworm Species Webworms Western Bean Cutworm Yellowstriped Armyworm	2.8 to 8.6 fl. oz. (0.033 to 0.10 lb. ai) per acre	Apply in a minimum of 2 to 5 gallons of finished spray per acre by aircraft or in a minimum of 10 gallons per acre with ground equipment. To improve control by aircraft, use 5 gallons of finished spray per acre particularly when initial populations are heavier than normal. When applying by air, 1 to 2 quarts of water in the finished spray.  Thorough coverage is essential to achieve control.  <b>To Control Ear-Attacking Pests:</b> Apply <i>MIRVANA RTU</i> just before silking and repeat as necessary to maintain control but do not exceed maximum application rates and reapplication intervals listed elsewhere in this section.  <b>Southwestern Corn Borer, European Corn Borer:</b> Make application for corn borer control with initial application at or shortly before egg hatch.  For <b>Control Of Other Insect Pests:</b> Apply when pests first appear and repeat as necessary but do not exceed maximum application rates and reapplication intervals listed elsewhere in this section.
Banks Grass Mite Carmine Mite Twospotted Spider Mite	6.9 to 8.6 fl. oz. (0.08-0.10 lb. ai) per acre	Apply for <b>Banks Grass Mite</b> control when colonies first form prior to leaf damage or discoloration and before dispersal above the bottom third of the plant.  For <b>Twospotted Spider Mite</b> and <b>Carmine Mite</b> control, apply when colonies first form prior to leaf damage or discoloration and before widespread mite dispersal throughout the canopy. Higher rates will be necessary for heavier initial populations and corn under heat or drought stress. Field experience with dimethoate at 0.5 lb. active per acre in tank mixture has demonstrated good control under these conditions.  <b>For Mite Control In Texas, New Mexico, Oklahoma, and Arizona:</b> Apply in a minimum of 5 gallons of finished spray per acre by aircraft or in a minimum of 10 gallons per acre with ground equipment.

**Restrictions:**

**DO NOT** apply more than 0.3 pound active ingredient per acre per season including pre and ppi, at-plant, plus foliar applications.

**DO NOT** apply within 30 days of harvest.

**DO NOT** graze livestock in treated areas or cut treated crops for feed within 30 days of the last application.

Use of ultra low volume (ULV) application on corn is prohibited.

**DO NOT** make aerial or ground applications to corn if heavy rainfall is imminent.

Use of *MIRVANA RTU* on corn is prohibited in all coastal counties.

**SWEET CORN (GRAIN AND SILAGE), SWEET CORN GROWN FOR SEED  
(FOLIAR USE)**

Apply as directed using the rates in the table below.

PEST	RATE	APPLICATION INSTRUCTIONS
Aphids Army Cutworm Beet Armyworm Cereal Leaf Beetle Chinch Bug Common Stalk Borer Corn Earworm Corn Rootworm Adults Cucumber Beetle Adult Cutworm Species European Corn Borer Fall Armyworm Flea Beetle Grasshoppers Greenbugs Japanese Beetle Adult Sap Beetle Southern Armyworm Southern Corn Leaf Beetle Southwestern Corn Borer Stinkbugs Tarnished Plant Bug True Armyworm or Armyworm Species Webworms Western Bean Cutworm Yellowstriped Armyworm	2.8 to 8.6 fl. oz. (0.033-0.10 lb. ai) per acre	Apply in a minimum of 2 gallons of finished spray per acre by air or in a minimum of 10 gallons per acre with ground equipment.  When applying by air, 1 to 2 quarts of emulsified oil may be substituted for 1 to 2 quarts of water in the finished spray.  Thorough coverage is essential to achieve control.  To Control Ear-Attacking Pests: Apply NIRVANA RTU when silking begins and repeat as necessary to maintain control but do not exceed maximum application rates and reapplication intervals listed elsewhere in this section.  Southwestern Corn Borer, European Corn Borer: Make 2 applications for corn borer with the initial application at or shortly before egg hatch.  For Control Of Other Insect Pests: Apply when pests first appear and repeat as necessary but do not exceed maximum application rates and reapplication intervals listed elsewhere in this section.
Banks Grass Mite Carmine Mite Twospotted Spider Mite	6.9 to 8.6 fl. oz. (0.08-0.10 lb. ai) per acre	Apply for <b>Banks Grass Mite</b> control when colonies first form prior to leaf damage or discoloration and before dispersal above the bottom third of the plant.  For <b>Twospotted Spider Mite</b> and <b>Carmine Mite</b> control, apply when colonies first form prior to leaf damage or discoloration and before widespread mite dispersal throughout the canopy.  Higher rates will be necessary for heavier initial populations and corn under heat or drought stress.

**Restrictions:**

**DO NOT** apply more than 0.2 pound active ingredient (12.8 ounces formulated product) per acre per season.

**DO NOT** apply within one day of harvest.

**DO NOT** graze livestock in treated areas or cut treated crops for feed within 1 day of last application.

Use of ultra low volume (ULV) application on corn is prohibited.

**DO NOT** make aerial or ground applications to corn if heavy rainfall is imminent.

Use of **NIRVANA RTU** on corn is prohibited in all coastal counties.

**COTTON**

Apply as directed using the rates in the table below.

PEST	RATE	APPLICATION INSTRUCTIONS
European Corn Borer Soybean (Banded) Thrips Tobacco Thrips	2.3-8.6 fl. oz./acre (0.02-0.10 lb. ai/ acre)	<p><i>NIRVANA RTU</i> may be applied in water or refined vegetable oil (soybean/cottonseed).</p> <p><b>Application in Water:</b> Apply in a minimum of 5 gallons per acre with ground equipment or 1 gallon per acre by aircraft. When applying by air, 1 quart of emulsified oil may be substituted for one quart of water in the finished spray.</p>
Boll Weevil Bollworm Cabbage Looper Cotton Aphid Cotton Fleahopper Cotton Leafperforator Cutworms Fall Armyworm Plant Bugs Saltmarsh Caterpillar Southern Garden Leathopper Stink Bugs Tobacco Budworm Whitefly Yellowstriped Armyworm	4.3-8.6 fl. oz./acre (0.04-0.10 lb. ai/ acre)	<p><b>ULV Application:</b> Apply the recommended rate of <i>NIRVANA RTU</i> in refined vegetable oil in a minimum of 1 quart of finished spray per acre with aircraft calibrated to give adequate coverage.</p> <p><b>To Control Boll Weevil:</b> Apply <i>NIRVANA RTU</i> at an interval of 3 to 4 days until pest numbers are reduced to acceptable levels.</p> <p><b>To Control Mites and Aphids:</b> Apply when pests first appear. Repeat as necessary to maintain control but do not exceed maximum application rates and reapplication intervals listed elsewhere in this section. Higher rates will be required once a damaging threshold is established.</p>
Beet Armyworm Carmine Spider Mite Lygus spp. Pink Bollworm Twospotted Spider Mite	5.1-8.6 fl.oz. acre (0.06-0.10 lb.ai/ acre)	

**Restrictions:**

**DO NOT** apply more than 0.5 pound active ingredient per acre per season.

**DO NOT** apply within 14 days of harvest.

**DO NOT** graze livestock in treated areas or cut treated crops for feed.

**DO NOT** make more than 10 synthetic pyrethroid applications (of one product or combinations or products) to a cotton crop in one growing season.



### CUCURBITS

**Chayote (fruit), Chinese waxgourd (Chinese preserving melon), Citron melon, Cucumber, Gherkin, Gourd, edible *Lagenaria* spp. (includes hyotan, cucuzza), *Luffa* spp. (includes hechima, Chinese okra), *Momordica* spp. (includes balsam apple, balsam pear, bitter melon, Chinese cucumber), Muskmelon (hybrids and/or cultivars of *Cucumis melo*) (includes true cantaloupe, cantaloupe, casaba, crenshaw melon, golden pershaw melon, honeydew melon, honey balls, mango melon, Persian melon, pineapple melon, Santa Claus melon, and snake melon), Pumpkin (*Cucurbita* spp.), Squash, summer (includes crookneck squash, scallop squash, straightneck squash, vegetable marrow, zucchini), Squash, winter (includes butternut squash, calabaza, Hubbard squash (*C. mixta*; *C. pepo*) includes acorn squash, spaghetti squash), Watermelon (includes hybrids and/or varieties of *Citrullus* spp.).**

When applied as directed, *NIRVANA RTU* will provide control of the following pests listed in the table below. To control rootworm larvae, apply as a 5 to 7 inch band over an open furrow (T-band), or in-furrow with the seed.

To control wireworm, grubs, and flea beetle larvae, apply as a 5 to 7 inch band over an open furrow (T-band), or in-furrow with the seed or transplant.

To control army cutworm, cutworm spp, true armyworm and armyworm spp, apply as a 5 to 7 inch band over the row on the soil surface, a 5 to 7 inch band over the open furrow (T-band), in-furrow with the seed, broadcast to the soil surface or banded over the row.

PEST	USE RATES		
	Fluid oz/acre	Fluid oz/1000 Linear ft.	Pound ai/acre
Cucumber beetle larvae	6.8 to 8.5	0.39 to 0.49	0.08 to 0.1
Wireworm Grubs Flea beetle larvae Army cutworm Cutworm spp. True armyworm Armyworm spp.	3.4 to 6.8	0.2 to 0.39	0.04 to 0.08

**Restrictions:**

**DO NOT** apply more than 0.1 pound active ingredient per acre per season as an at-plant application.

**DO NOT** apply more than 0.3 pound active ingredient per acre per season including at-plant plus foliar applications of other bifenthrin products.

### DRIED BEANS AND PEAS

**Dried cultivars of: Bean (Lupinus); Bean (Phaseolus), Field bean, Kidney bean, Lima bean (dry), Navy bean, Pinto bean, Tepary bean; Bean (Vigna), Adzuki bean, Blackeyed pea, Catjang, Cowpea, Crowder pea, Moth bean, Mung bean, Rice bean, Southern pea, Urd bean; Broad bean (dry), Chickpea, Guar, Lablab bean, Lentil; Pea (Pisum), Field pea, Pigeon pea.**

When applied as directed, *NIRVANA RTU* will provide control of the following pests listed in the table below. Apply as a 5 to 7 inch band over the row on the soil surface, 5 to 7 inch band (T-band) over an open furrow, or in-furrow with the seed. Apply broadcast to the soil surface for control of Army cutworm, Cutworm spp., True armyworm, or Armyworm spp.

PEST	USE RATES		
	Fluid oz/acre	Fluid oz/1000 Linear ft.	Pound ai/acre
Corn rootworm larvae	6.8 to 8.5	0.39 to 0.49	0.08 to 0.1
Grape colaspis Wireworm Grubs Root maggot Army cutworm Cutworm spp. True armyworm Armyworm spp.	3.4 to 6.8	0.2 to 0.39	0.04 to 0.08

**Restrictions:**

**DO NOT** apply more than 0.1 pound active ingredient per acre per season as an at-plant application.

**DO NOT** apply more than 0.2 lb. active ingredient (17.0 ounces formulated) to peas or 0.3 lb. active ingredient (25.5 ounces formulated) to beans per acre per season including at-plant plus foliar applications of other bifenthrin products.

### EGGPLANT

When applied as directed, *NIRVANA RTU* will provide control of the following pests listed in the table below. Apply as a 5 to 7 inch band over the row on the soil surface, a 5 to 7 inch band over the open furrow (T-band), or in-furrow with the seed. Apply broadcast to the soil surface for control of Army Cutworm, Cutworm Species, True Armyworm or Armyworm species.

PEST	USE RATES		
	Fluid oz/acre	Fluid oz/1000 Linear ft.	Pound ai/acre
Rootworm larvae	6.8 to 8.5	0.39 to 0.49	0.08 to 0.1
Wireworm Grubs Root maggot Army cutworm Cutworm spp. True armyworm Armyworm spp.	3.4 to 6.8	0.2 to 0.39	0.04 to 0.08

#### Restrictions:

**DO NOT** apply more than 0.1 pound active ingredient per acre per season as an at-plant application.

**DO NOT** apply more than 0.2 pound active ingredient per acre per season including at-plant plus foliar applications of other bifenthrin products.

### HEAD LETTUCE

When applied as directed, *NIRVANA RTU* will provide control of the following pests listed in the table below. Apply as a 5 to 7 inch band over the row on the soil surface, a 5 to 7 inch band over the open furrow (T-band), or in-furrow with the seed. Apply broadcast to the soil surface for control of Army cutworm, Cutworm spp., True armyworm, armyworm spp. or bulb mites.

PEST	USE RATES		
	Fluid oz/acre	Fluid oz/1000 Linear ft.	Pound ai/acre
Rootworm larvae	6.8 to 8.5	0.39 to 0.49	0.08 to 0.1
Wireworm Grubs Root maggot Lettuce root aphid Army cutworm Cutworm spp. True armyworm Armyworm spp. Bulb mites	3.4 to 6.8	0.2 to 0.39	0.04 to 0.08

#### Restrictions:

**DO NOT** apply more than 0.1 pound active ingredient per acre per season as an at-plant application.

**DO NOT** apply more than 0.5 pound active ingredient per acre per season including at-plant plus foliar applications of other bifenthrin products.

### LEAFY BRASSICAS, TURNIP GREENS

**Broccoli Raab, Bok Choy, Collards, Kale, Mizuna, Mustard Greens, Mustard Spinach, Rape Greens, Turnip Greens.**

When applied as directed, *NIRVANA RTU* will provide control of the following pests listed in the table below. Apply as a 5 to 7 inch band over the row on the soil surface, a 5 to 7 inch band over the open furrow (T-band), or in-furrow with the seed. Apply broadcast over the soil surface for control of Army cutworm, Cutworm spp., True armyworm or armyworm spp.

PEST	USE RATES		
	Fluid oz/acre	Fluid oz/1000 Linear ft.	Pound ai/acre
Rootworm larvae	6.8 to 8.5	0.39 to 0.49	0.08 to 0.1
Wireworm Grubs Root maggot Lettuce root aphid Army cutworm Cutworm spp. True armyworm Armyworm spp.	3.4 to 6.8	0.2 to 0.39	0.04 to 0.08

#### Restrictions:

**DO NOT** apply more than 0.1 pound active ingredient per acre per season as an at-plant application.

**DO NOT** apply more than 0.4 pound active ingredient per acre per season including at-plant plus foliar applications of other bifenthrin products.

**LEAFY PETIOLE VEGETABLES (FOLIAR)**

**Celery, Cardoon, Chinese celery, Celtuce, Florence fennel, Rhubarb, Swiss chard.**

When applied as directed, *NIRVANA RTU* will provide control of the following pests listed in the table below. Apply in a minimum of 2 gallons of finished spray per acre by air or in a minimum of 10 gallons of finished spray per acre with ground equipment. When applying by air, 1 to 2 quarts of emulsified oil may be substituted for 1 to 2 quarts of water in the finished spray. Thorough coverage is essential to achieve control.

PEST	USE RATES	
	Fluid oz/acre	Pound ai/acre
Cutworms Corn Earworm Tobacco Budworm Saltmarsh Caterpillar Leafhoppers Flea Beetles Imported Cabbageworm Cucumber Beetles Aphids Whitefly Armyworms Loopers Stink Bugs Crickets Ground Beetles Thrips Wireworm (adults) Diamondback Moth	3.4 to 8.5	0.04 to 0.1
Banks Grass Mite Twospotted Spider Mite Carmine Mite Pacific Spider Mite Lygus Spp.	6.8 to 8.5	0.08 to 0.1

**Restrictions:**

**DO NOT** apply more than 0.5 lb. active ingredient per acre per season.

**DO NOT** make applications less than 7 days apart.

**DO NOT** apply within 7 days of harvest.

**OKRA**

When applied as directed, *NIRVANA RTU* will provide control of the following pests listed in the table below. Apply as a 5 to 7 inch band over the row on the soil surface, a 5 to 7 inch band over the open furrow (T-band), in-furrow with the seed, or broadcast to the soil surface.

PEST	USE RATES		
	Fluid oz/acre	Fluid oz/1000 Linear ft.	Pound ai/acre
Wireworm Armyworm Cutworm Flea beetle larvae	3.4 to 6.8	0.2 to 0.39	0.04 to 0.08

**Restrictions:**

**DO NOT** apply more than 0.1 pound active ingredient per acre per season as an at-plant application.

**DO NOT** apply more than 0.2 pound active ingredient per acre per season including at-plant plus foliar applications of other bifenthrin products.

**PEANUT\* (FOLIAR)**

Apply as directed using the rates in the table below.

PEST	RATE	APPLICATION INSTRUCTIONS
Beet Armyworms Corn earworm Cucumber Beetles Cutworm species Fall Armyworm Grasshoppers Green cloverworm Leafhoppers Lesser Cornstalk Borer Loopers Rednecked Peanut Worm Southern Armyworm Southern Corn Rootworm Stink Bugs Threecornered Alfalfa Hopper Velvetbean Caterpillar Yellowstriped Armyworm	2.5 to 8.6 fl. oz. (0.033 to 0.1 lb. ai) per acre	Apply foliar treatments in at least 10 gallons per acre at the rate of 8.6 fl. oz. (0.1 lb. active ingredient) per acre at a minimum of 14 days intervals.
Aphids Spider Mites Thrips Whitefly	6.9 to 8.6 fl. oz. (0.08 to 0.1 lb. ai) per acre	

**Restricted:**

**DO NOT** feed green immature plants and peanut hay to livestock.

**DO NOT** apply more than 0.5 pound active ingredient per acre per season.

**DO NOT** apply within 14 days of harvest.

\* Not for use in California.

**PEPPERS (BELL and NON-BELL)**

When applied as directed, *NIRVANA RTU* will provide control of the following pests listed in the table below. Apply as a 5 to 7 inch band over the row on the soil surface, a 5 to 7 inch band over the open furrow (T-band), or in-furrow with the seed. Apply broadcast over the soil surface for control of Army cutworm, Cutworm spp., True armyworm, Armyworm spp. or Stalk borer.

PEST	USE RATES		
	Fluid oz/acre	Fluid oz/1000 Linear ft.	Pound ai/acre
Rootworm larvae	6.8 to 8.6	0.39 to 0.49	0.08 to 0.1
Wireworm Grubs Root maggot Flea beetle larvae Pepper maggot Root aphid Army cutworm Cutworm spp. True armyworm Armyworm spp. Stalk borer	3.4 to 6.8	0.2 to 0.39	0.04 to 0.08

**Restrictions:**

**DO NOT** apply more than 0.1 pound active ingredient per acre per season as an at-plant application.

**DO NOT** apply more than 0.2 pound active ingredient per acre per season including at-plant plus foliar applications of other bifenthrin products.

### ROOT CROPS (FOLIAR)

Apply as directed using the rates in the table below.

CROP	PEST	RATE	APPLICATION INSTRUCTIONS
Burdock, edible Carrot Celeriac Chervil, turnip rooted Chicory Ginseng Horseradish Parsley, turnip rooted Parsnip Radish Radish, oriental Rutabaga Salsify Salsify, black Salsify, Spanish Skirret Turnip	Aphids Beet Armyworm Celery leafhopper Corn Earworm Cross-Striped Cabbageworm Cutworms Diamondback moth European Corn Borer Fall Armyworm Flea Beetles Green Cloverworms Hornworms Imported Cabbageworm Loopers Southern Armyworm Spider Mites Tobacco Budworm Velvetbean Caterpillar Whitefly Yellowstriped Armyworm	6.9 to 8.6 fl. oz. (0.08 to 0.10 lb. ai) per acre	Apply foliar treatments in at least 25 gallons per acre.

**Restrictions:**

**DO NOT** make applications less than 7 days apart.

**DO NOT** apply more than 0.5 pound active per acre per season.

**DO NOT** apply within 21 days of harvest.

Garden Beet	Aphids Flea Beetles Lepidopterous Larvae Spider Mites Whitefly	6.9 to 8.6 fl. oz. (0.08 to 0.10 lb. ai) per acre	Apply foliar treatments in at least 25 gallons per acre.
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**Restrictions:**

**DO NOT** make applications less than 7 days apart.

**DO NOT** apply more than 0.4 lb. active ingredient per acre per season.

**DO NOT** apply within 1 day of harvest.

### SOD FARMS (FOLIAR)

When applied as directed, *NIRVANA RTU* will provide control of the following pests listed in the table below. Apply as a broadcast treatment.

Use higher volumes up to 10 gallons of carrier per 1000 square feet to get uniform coverage when treating dense grass foliage.

Irrigation to treated area within a few hours following application can improve efficacy to sub-surface pests including mole crickets.

The application rates listed in the following table will provide excellent control of the respective pests under typical conditions. However, at the discretion of the applicator, *NIRVANA RTU* may be applied at up to 0.4 fluid oz. per 1000 square feet to control each of the pests listed in this table. The higher application rates should be used when maximum residual control is desired or heavy pest populations occur.

PEST	USE RATES	
	Fluid oz/acre	Fluid oz/ 1000 sq. ft.
Armyworms <sup>1</sup> Cutworms <sup>1</sup> Sod Webworm <sup>1</sup>	2.8 to 4.35	0.066 to 0.1
Annual Bluegrass Weevil ( <i>Hyperodes</i> ) (Adult) <sup>2</sup> Banks Grass Mite <sup>6</sup> Billbugs (Adult) <sup>3</sup> Black Turfgrass Ataenius (Adult) <sup>4</sup> Crickets Earwigs Grasshoppers Mealybugs Mites <sup>5</sup>	4.35 to 8.7	0.1 to 0.2
Chinch Bugs <sup>5</sup> Japanese Beetle (Adult) Mole Cricket (Adult) <sup>7</sup> Mole Cricket (Nymph) <sup>8</sup>	8.7 to 17.42	0.2 to 0.4

**In New York State, this product may NOT be applied to any grass or turf area within 100 feet of a water body (lake, pond, river, stream, wetland, or drainage ditch). In New York State, do make a single repeat application of this product if there are signs of renewed insect activity, but not sooner than two weeks after the first application.**

#### Comments

**1. Armyworms, Cutworms and Sod Webworms:** To ensure optimum control, delay watering (irrigation) or mowing for 24 hours after application. If the grass area is being maintained at a mowing height of greater than 1 inch, then higher application rates (up to 0.4 fluid oz. per 1000 square feet) may be required during periods of high pest pressure.

**2. Annual Bluegrass Weevil (*Hyperodes*) adults:** Applications should be timed to control adult weevils as they leave their overwintering sites and move into grass areas. This movement generally begins when *Forsythia* is in full bloom and concludes when flowering dogwood (*Cornus florida*) is in full bloom. Consult your State Cooperative Extension Service for more specific information regarding application timing.

**3. Billbug adults:** Applications should be made when adult billbugs are first observed during April and May. Degree day models have been developed to optimize application timing. Consult your State Cooperative Extension Service for information specific to your region. In temperate regions, spring applications targeting billbug adults will also provide control of over-wintered chinch bugs.

**4. Black Turfgrass Ataenius adults:** Applications should be made during May and July to control the first and second generation of black turf-grass ataeenius adults, respectively. The May application should be timed to coincide with the full bloom stage of Vanhoutte spiraea (*Spiraea vanhouttei*) and horse chestnut (*Aesculus hippocastanum*). The July application should be timed to coincide with the blooming of Rose of Sharon, (*Hibiscus syriacus*).

**5. Chinch Bugs:** Chinch Bugs infest the base of grass plants and are often found in the thatch layer. Irrigation of the grass area before treatment will optimize the penetration of the insecticide to the area where the chinch bugs are located. Use higher volume applications if the thatch layer is excessive or if a relatively long mowing height is being maintained. Chinch Bugs can be one of the most difficult pests to control in grasses and the higher application rates (up to 0.4 fluid oz. per 1000 square feet) may be required to control populations that contain both nymphs and adults during the middle of the summer.

**6. Mites:** To ensure optimal control of eriophyid mites, apply in combination with the labeled application rate of a surfactant. A second application, five to seven days after the first, may be necessary to achieve acceptable control.

**7. Mole Cricket adults:** Achieving acceptable control of adult mole crickets is difficult because preferred grass areas are subject to continuous invasion during the early spring by this extremely active stage. Applications should be made as late in the day as possible and should be watered in with up to 0.5 inches of water immediately after treatment. If the soil is not moist, then it is important to irrigate before application to bring the mole crickets closer to the soil surface where contact with the insecticide will be maximized. Grass areas that receive pressure from adult mole crickets should be treated at peak egg hatch to ensure optimum control of subsequent nymph populations (see below).

**8. Mole Cricket nymphs:** Grass areas that received intense adult mole cricket pressure in the spring should be treated immediately prior to peak egg hatch. Optimal control is achieved at this time because young nymphs are more susceptible to insecticides and they are located near the soil surface where the insecticide is most concentrated. Control of larger, more damaging, nymphs later in the year may require both higher application rates and more frequent applications to maintain acceptable control. Applications should be made as late in the day as possible and should be watered in with up to 0.5 inches of water immediately after treatment. If the soil is not moist, then it is important to irrigate before application to bring the mole crickets closer to the soil surface where contact with the insecticide will be maximized.

### SOYBEANS

When applied as directed, *NIRVANA RTU* will provide control of the following pests listed in the table below. Apply as a 5 to 7 inch band over the row on the soil surface, a 5 to 7 inch band over the open furrow (T-band), or in-furrow with the seed. Apply broadcast over the soil surface for control of Army cutworm, Cutworm spp., True armyworm, or Armyworm spp.

PEST	USE RATES		
	Fluid oz/acre	Fluid oz/1000 Linear ft.	Pound ai/acre
Rootworm larvae	6.8 to 8.5	0.39 to 0.49	0.08 to 0.1
Wireworm Grape colaspis Grubs Root maggot Seedcorn maggot Army cutworm Cutworm spp. True armyworm Armyworm spp. Seed corn beetle	3.4 to 6.8	0.2 to 0.39	0.04 to 0.08

#### Restrictions:

**DO NOT** apply more than 0.1 pound active ingredient per acre per season as an at-plant application.

**DO NOT** apply more than 0.2 pound active ingredient per acre per season including at-plant plus foliar applications of other bifenthrin products.

### SOYBEANS (PPI & PRE)

For PPI treatments, the 4 to 5.3 fluid oz/A rate must be used. *NIRVANA RTU* can be tank mixed and applied with PPI herbicides. Incorporation of *NIRVANA RTU* should not be any deeper than the intended planting depth and no deeper than 3 inches. Incorporation depth should be close to the intended seed planting depth. For PRE treatments, the 3.4 fluid oz/A rate may be applied and can be tank mixed and applied with PRE herbicides.

PEST	USE RATES	
	Fluid oz/acre	Pound ai/acre
Black Cutworm White grub Wireworm Seed corn Maggot Armyworm spp. Seed corn beetle	4 to 5.3 Pre-Plant Incorporated (PPI)	0.47 to 0.062 Pre-Plant Incorporated (PPI)
Black Cutworm Armyworm Stalkborer Seed corn beetle	3.4 Pre- Emergence (PRE)	0.04 Pre-Emergence (PRE)

#### Restrictions:

**DO NOT** apply more than 0.1 pound active ingredient per acre per season as PPI or PRE application.

**DO NOT** apply more than 0.2 pound active ingredient per acre per season including at-plant plus foliar applications of other bifenthrin products.

### SOYBEAN (FOLIAR)

Apply as directed using the rates in the table below.

PEST	RATE	APPLICATION INSTRUCTIONS
Alfalfa Caterpillar Aphids Aster Leafhopper Bean Leaf Beetle Beet Armyworm <sup>1</sup> Cloverworm Corn Earworm Corn Rootworm Adult Cucumber Beetles Cutworms European Corn Borer Fall Armyworm Flea Beetle Grasshoppers Imported cabbageworm Japanese Beetle Adult Leafhoppers Leafminer Loopers Mexican Bean Beetle Adult Pea Leaf Weevil Pea Weevil Plant Bug Saltmarsh caterpillar Sap Beetle Southern Armyworm Stink Bugs Tarnished Plant Bug Thrips Tobacco Budworm <sup>1</sup> Webworms Western Bean Cutworm Whitefly Yellowstriped Armyworm	2.8 to 8.6 fl. oz. (0.033 to 0.1 lb. ai) per acre	Apply as a foliar treatment using at least of 10 gallons per acre at the rate of 8.6 fl. oz. (0.1 lb.) per acre at a minimum of 30 day intervals.  <sup>1</sup> Pyrethroid resistance is common for Beet Armyworm and Tobacco Budworm. Consult your local or state agricultural authority to determine if resistant pest populations are in your area. If so refer to the Resistance Management statement in the Directions For Use section of this label.
Lygus Species Whitefly Two-Spotted Spider Mite	6.9 to 8.6 fl. oz. (0.08 to 0.10 lb. ai) per acre	

**Restrictions:**

**DO NOT** apply more than 0.3 pound active ingredient per acre per season.

**DO NOT** apply within 18 days of harvest.

### SPINACH

Apply as a 5 to 7 inch band over the row on the soil surface, a 5 to 7 inch band over the open furrow (T-band), or in-furrow with the seed. Apply broadcast to the soil surface for control of Army cutworm, Cutworm spp., True armyworm, or Armyworm spp.

PEST	USE RATES		
	Fluid oz/acre	Fluid oz/1000 Linear ft.	Pound ai/acre
Rootworm larvae	6.8 to 8.5	0.39 to 0.49	0.08 to 0.1
Wireworm Grubs Root maggot Seedcorn maggot Army cutworm Cutworm spp. True armyworm Armyworm spp.	3.4 to 6.8	0.2 to 0.39	0.04 to 0.08

**Restrictions:**

**DO NOT** apply more than 0.1 pound active ingredient per acre per season as an at-plant application.

**DO NOT** apply more than 0.4 pound active ingredient per acre per season including at-plant plus foliar applications of other bifenthrin products.



### SPINACH (FOLIAR)

Apply as directed using the rates in the table below.

PEST	RATE	APPLICATION INSTRUCTIONS
Armyworms Colorado Potato Beetle Corn Earworm Cucumber Beetles Cutworms European Corn Borer Flea Beetles Leafminers Loopers Pepper Weevil Thrips Tomato Pinworm Tomato Hornworm Whitefly	2.8 to 8.6 fl. oz. (0.033 to 0.10 lb. ai) per acre	Apply the specified dosage in 5-50 gallons of finished spray per acre by air or 10-50 gallons of finished spray per acre by ground.  For control of <b>Whiteflies</b> , apply foliar treatments of <i>NIRVANA RTU</i> by ground or air at rates of up to 0.5 pt. (0.1 lb active) per acre at minimum 7-day intervals up to a maximum of 4 applications.
Banks Grass Mite Broad Mite Carmine Mite Lygus species Pacific Spider Mite Twospotted spider mite	6.9 to 8.6 fl. oz. (0.08 to 0.10 lb. ai) per acre	

#### Restrictions:

**DO NOT** make applications less than 7 days apart.

**DO NOT** apply more than 0.4 pound active ingredient per acre per season.

**DO NOT** apply within 40 days of harvest.

#### SUCCULENT PEAS AND BEANS

Pea (*Pisum* spp.): Dwarf pea, Edible-pod pea, English pea, Garden pea, Green pea, Snow pea, Sugar snap pea, Pigeon pea; Bean (*Phaseolus* spp.): Broadbean (succulent), Lima bean (green), Runner bean, Snap bean, Wax bean; Bean, *Vigna* spp.): Asparagus bean, Blackeyed pea, Chinese longbean, Cowpea, Moth bean, Southern pea, Yardlong bean, Jackbean, Soybean (immature seed), Sword bean.

When applied as directed, *NIRVANA RTU* will provide control of the following pests listed in the table below. Apply as a 5 to 7 inch band over the row on the soil surface, a 5 to 7 inch band over the open furrow (T- band), or in-furrow with the seed. Apply broadcast over the soil surface for control of Army cutworm, Cutworm spp., True armyworm, or Armyworm spp.

PEST	USE RATES		
	Fluid oz/acre	Fluid oz/1000 Linear ft.	Pound ai/acre
Rootworm larvae	6.8 to 8.5	0.39 to 0.49	0.08 to 0.1
Wireworm Grape colaspis Grubs Root maggot Seedcorn maggot Army cutworm Cutworm spp. True armyworm Armyworm spp.	3.4 to 6.8	0.2 to 0.39	0.04 to 0.08

#### Restrictions:

**DO NOT** apply more than 0.1 pound active ingredient per acre per season as an at-plant application.

**DO NOT** apply more than 0.2 pound active ingredient per acre per season including at-plant plus foliar applications of other bifenthrin products.

**TOBACCO (PRE-TRANSPLANT and AT-TRANSPLANT)**

When applied as directed, *MIRVANA RTU* will provide control of the following pests listed in the table below.

**Pre-transplant soil applications:**

Use of suitable equipment to incorporate into top 4" of the soil is required to control below ground pests.

**At-transplant water treatment application:**

Apply 0.0625 to 0.1 pound ai/A in a water treatment application volume of 10 to 200 gal/A.

PEST	USE RATES		
	Fluid oz/acre	Fluid oz/1000 Linear ft.	Pound ai/acre
Cutworm spp. Flea beetle larvae White grubs Wireworm Mole cricket Armyworm spp. Stalkborer	3.4 to 8.5	0.2 to 0.49	0.04 to 0.1

**Restrictions:**

**DO NOT** apply more than 0.2 pound active ingredient per acre per season.

**DO NOT** apply later than layby.

May be tank mixed with Command, Spartan and other herbicides approved for tobacco use.

**TOBACCO (FOLIAR)**

When applied as directed, *MIRVANA RTU* will provide control of the following pests listed in the table below. Apply 0.04 to 0.10 lb ai/A per foliar application up to, and including, layby in a minimum of 10 gal/A. **DO NOT** make more than 2 foliar applications per season.

PEST	USE RATES	
	Fluid oz/acre	Pound ai/acre
Aphid spp. Armyworm spp. Chinch bugs Cutworm spp. Flea beetle (Adults) Grasshoppers Green bugs Japanese beetles Stink Bugs Thrips White flies Tarnished plant bugs	3.4 to 8.5	0.04 to 0.1
Hornworm Tobacco Budworm	6.8 to 8.5	0.08 to 0.1
Spider mites Lygus spp.	8.5	0.1

**Restrictions:**

**DO NOT** make more than 2 foliar applications per season.

**DO NOT** apply more than 0.2 pounds active ingredient per acre per season.

**DO NOT** apply later than layby.

May be tank mixed with herbicides approved for tobacco use.

\*See resistance management statement under "Directions for Use" section.

### TOMATOES

When applied as directed, *NIRVANA RTU* will provide control of the following pests listed in the table below. Apply as a 5 to 7 inch band over the row on the soil surface, a 5 to 7 inch band over the open furrow (T-band), or in-furrow with the seed. Apply broadcast to the soil surface for control of Army cutworm, Cutworm spp., True armyworm, Armyworm spp. or Stalkborer.

PEST	USE RATES		
	Fluid oz/acre	Fluid oz/1000 Linear ft.	Pound ai/acre
Rootworm larvae	6.8 to 8.5	0.39 to 0.49	0.08 to 0.1
Wireworm Grubs Root maggot Flea beetle larvae Army cutworm Cutworm spp. True armyworm Armyworm spp. Stalkborer	3.4 to 6.8	0.2 to 0.39	0.04 to 0.08

**Restrictions:**

**DO NOT** apply more than 0.1 pound active ingredient per acre per season as an at-plant application.

**DO NOT** apply more than 0.32 pound active ingredient per acre per season including at-plant plus foliar applications of other bifenthrin products.

### TUBEROUS AND CORM VEGETABLES (AT-PLANT)

**Potato, Sweet potato, Arracacha, Arrowroot, Chinese artichoke, Jerusalem artichoke, Edible canna, Cassava (bitter and sweet), Chayote (root), Chufa, Dasheen (taro), Ginger, Leren, Tanier, Turmer, Yam bean, True yam.**

When applied as directed, *NIRVANA RTU* will provide control of the pests listed in the table below. *NIRVANA RTU* may be applied as a soil incorporated broadcast, directed bed spray or a T-band spray into the planting furrow for the control of wireworms, rootworms, sweet potato flea beetle and white grubs. Apply *NIRVANA RTU* at the rate of 0.15 to 0.3 pounds active ingredient (12.75 to 25.5 fluid ounces formulated) per acre in a minimum of 10 gallons per acre of spray.

PEST	USE RATES	
	Fluid oz/acre	Pound ai/acre
Wireworms Grape colapsis White grub Sweet potato flea beetle Rootworms	12.75 to 25.5	0.15 to 0.3

**Restrictions:**

**DO NOT** apply more than 0.3 pound active ingredient per acre per season as an at-plant application.

**DO NOT** apply more than 0.5 pound active ingredient per acre per season including at-plant plus foliar applications of other bifenthrin products.

### TUBEROUS AND CORM VEGETABLES (LAY-BY)

**Potato, Sweet potato, Arracacha, Arrowroot, Chinese artichoke, Jerusalem artichoke, Edible canna, Cassava (bitter and sweet), Chayote (root), Chufa, Dasheen (taro), Ginger, Leren, Tanier, Turmer, Yam bean, True yam.**

When applied as directed, *NIRVANA RTU* will provide control of the following pests listed in the table below. *NIRVANA RTU* may be applied as one or more soil directed and incorporated treatments at cultivation or lay-by for the control of wireworms, rootworms and white grubs. Apply *NIRVANA RTU* to the drill area and incorporate by cultivation equipment set to throw soil towards the drill area. Apply *NIRVANA RTU* at a rate of 0.15 to 0.3 pound active ingredient (12.75 to 25.5 fluid ounces formulated) per acre in a minimum of 10 gallons per acre of spray.

PEST	USE RATES	
	Fluid oz/acre	Pound ai/acre
Wireworms Grape colapsis White grub Rootworms	12.75 to 25.5	0.15 to 0.3

**Restrictions:**

**DO NOT** apply more than 0.5 pound active ingredient per acre per season including soil plus foliar applications of other bifenthrin products.

## TUBEROUS AND CORM VEGETABLES (FOLIAR)

Apply as directed using the rates in the table below.

CROP	PEST	APPLICATION INSTRUCTIONS
Potato Sweet potato Arracacha Arrowroot Chinese artichoke Jerusalem artichoke Edible canna Cassava (bitter & sweet) Chayote (root) Chufa Dasheen (taro) Ginger Leren Tanier Turmer Yam bean True yam	Corn wireworm Tobacco wireworm Southern potato wireworm Japanese beetle grubs June beetle Sweetpotato flea beetle Cucumber beetle Sweetpotato Weevil Banded Cucumber Beetle Black flea beetle Whitefringed beetle White grub Sugarcane beetle Rootworms	<b>Foliar Application:</b> Apply <i>NIRVANA RTU</i> to control the adult life stages of <b>flea beetles, click beetles (wireworms), cucumber beetles (rootworms), Whitefringed beetles and May/June beetles (White grubs)</b> . Apply at the rate of 0.1 lbs. active ingredient (8.6 ounce formulated product) per acre in 10 gallons of spray by ground equipment and 3 gallons of spray by air.

### Restrictions:

**DO NOT** make more than 2 foliar applications per season no sooner than 21 days apart.

**DO NOT** apply more than 0.5 lb. active ingredient per acre per season, including soil application.

**DO NOT** apply within 21 days of harvest.

### APPLICATIONS INSTRUCTIONS – ORNAMENTALS\*

\* NOT FOR USE IN CALIFORNIA TO CONTROL LISTED INSECT PESTS ON ORNAMENTALS AND TREES (INCLUDING FIELD AND CONTAINER GROWN NURSERY STOCK, CHRISTMAS TREES, INTERIORSCAPES AND PLANTSCAPES, LAWNS, TREES AND SHRUBS, AND ON GOLF COURSES AND SOD FARMS).

For use on plants intended for aesthetic purposes or climatic modifications and being grown in interior landscapes and on outdoor ornamentals, Christmas trees, nurseries, lawns, sod farms and golf courses.

### PRODUCT INSTRUCTIONS

*NIRVANA RTU* mixes with water and other aqueous carriers to control listed insects and mites on trees, shrubs, foliage plants, non-bearing fruit and nut trees, and flowers in interiorscapes, including hotels, shopping malls, office buildings, etc. and outdoor landscapes such as, but not limited to, nurseries, residential dwellings, parks, institutional buildings, recreational areas, athletic fields, golf courses, sod farms, and home lawns. Non-bearing crops are perennial crops that will not produce a harvestable raw agricultural commodity during the season of application.

*NIRVANA RTU* may be tank-mixed with other products, including insect growth regulators. When tank mixing *NIRVANA RTU* with other products observe all precautions and limitations on each separate product label. The addition of spreader stickers is not necessary. The physical compatibility of *NIRVANA RTU* may vary with different sources of pesticide products, and local cultural practices. Any tank mixture which has not been previously tested should be prepared on a small scale (pint or quart jar), using the proper proportions of chemicals and water to ensure the physical compatibility of the mixture.

The following procedure is recommended for preparation of a new tank mix, unless specified otherwise in label directions:

1. Add wettable powders to tank water
2. Agitate
3. Add fluids and flowables
4. Agitate
5. Add emulsifiable concentrates
6. Agitate

If a mixture is found to be incompatible following the order of addition, try reversing the order of addition, or increase the volume of water. **Note:** If the tank mixture is found to be compatible after increasing the amount of water then the sprayer will need to be recalibrated for a higher volume application. Do not allow tank mix to stand overnight. When using tank mixes, observe all restrictions and precautions which appear on the labels of these products. Provide constant agitation to keep the mixture in solution.

**APPLICATION RATES****TRUNK SPRAYS TO ORNAMENTAL TREES (including Christmas trees)****For Control of Bark Beetles and Boring Beetles**

Refer to the table below. Application rates and timing differ according to the target pest and other factors specific to each local situation. Consult your local State Extension specialist or other qualified expert for recommendations. Note: Do not apply more than 12.8 fl. oz. (0.2 lbs. AI) per acre of this product to trees. Repeat application may be necessary if reinfestation is likely.

PEST	RATE	SPRAY VOLUME	USE INSTRUCTIONS
<b>Dendroctonus bark beetles</b> such as mountain pine beetle, southern pine beetle, western pine beetle, and black turpentine beetle.	21 - 43 fl. oz. per 100 gallons (0.25 – 0.5 lb. AI per 100 gallons)	Use 1-4 gallons of finished spray per tree.	Make applications to the trunk of the tree with a hydraulic sprayer in the early spring or prior to adult beetle flight and tree infestation. Apply spray directly to the main trunk from the base of the tree to at least half-way into the live crown. Spray until the bark is thoroughly wet.
Engraver beetle ( <i>Ips</i> spp.)	21 - 43 fl. oz. per 100 gallons (0.25 – 0.5 lb. AI per 100 gallons)	Use 10-14 gallons of finished spray per tree.	
<b>Other bark beetles</b> such as ambrosia beetles, elm bark beetles, and metallic wood borers such as emerald ash borer.	21 - 43 fl. oz. per 100 gallons (0.25 – 0.5 lb. AI per 100 gallons)	Use 2-5 gallons of finished spray per tree	Make applications of a spray mixture to the trunk, scaffolding and limbs of the tree with a hydraulic sprayer in the early spring or prior to adult beetle flight and tree infestations. Spray until the bark is thoroughly wet.
<b>Clearwing moth borers</b> such as ash borer, banded ash clearwing, dogwood borer, lesser peachtree borer, lilac borer, oak borer, peachtree borer, rhododendron borer	8.6 – 17.2 fl. oz. per 100 gallons (0.1 – 0.2 lb. AI per 100 gallons)	Use 1-4 gallons of finished spray per tree.	Apply to the branches and trunks prior to adult emergence. Spray until the bark is thoroughly wet. For maximum residual control, use highest recommended rate.
<b>Coleopteran borers</b> such as bronze birch borer, flatheaded apple tree borer			

### Treatment of Infested Trees to Control Emerging Brood

Make applications of a spray mixture containing 2.0 pints of *NIRVANA RTU* per 100 gallons of water to trees that still have beetles in the bark. Apply spray directly to the main trunk from the base of the tree to at least half-way into the live crown. Spray until the bark is thoroughly wet (usually 1 to 4 gallons of spray per tree). Do not apply more than 0.2 lbs. AI (19.4 fl. oz.) of this product to trees per acre.

Trees on which all needles have turned brown generally have been vacated and should not be sprayed unless infestation is confirmed. To confirm an infestation, scrape off the outer bark to determine if trees are still infested. If live infestations remain in the trunks, fell the trees and cut into sections. Spray the trunk and large limbs and turn sections so that all of the surface area can be treated. Do not apply more than 0.2 lbs. AI (19.4 fl. oz.) of this product to trees per acre.

### FOLIAR SPRAYS TO ORNAMENTALS AND TREES

#### (Including Field and Container Grown Nursery Stock, Christmas Trees, Interiorscapes and Plantscapes, Lawns, Trees and Shrubs, and on Golf Courses and Sod Farms

For applications to ornamentals (including but not limited to trees, shrubs, ground covers, bedding plants and foliage plants, conifers (field and container grown), Christmas Trees and pine seed orchards) apply 0.06 to 0.44 fl. oz. *NIRVANA RTU* per 1,000 sq. ft. or 2.4 to 19.4 fl. oz. per 100 gallons. *NIRVANA RTU* may be diluted and applied in various volumes of water providing that the maximum label rate (0.44 fl. oz. per 1,000 sq. ft. or 19.4 fl. oz. per 100 gallons) is not exceeded. *NIRVANA RTU* may be applied through low volume application equipment by dilution with water or other carriers and providing that the maximum label rate (0.44 fl. oz. per 1,000 sq. ft. or 19.4 fl. oz. per 100 gallons) is not exceeded.

#### Calculating Dilution Rates Using the Ornamental Application Rates Table and the *NIRVANA RTU* Dilution Chart

Use the following steps to determine the appropriate dilution of this product required to control the specific pests:

1. Find the least susceptible target pest (the pest that requires the highest application rate for control).
2. Select an application rate in terms of fluid ounces of this product.
3. Find your application volume and how much spray you want to prepare.
4. Use the **Ornamental Dilution Chart** to determine the appropriate volume of this product that must be mixed in your desired volume of water.

For example, to control black vine weevil adults on rhododendron, the **Ornamental Application Rates** table shows that 0.12 to 0.20 fl. oz. of this product should be applied per 1,000 sq. ft. You select an application rate of 0.20 fl. oz. per 1,000 sq. ft. because maximum residual control is desired. Your application volume is approximately 300 gallons per acre which is equivalent to 6.9 gallons per 1,000 sq. ft. Consulting the **Ornamental Dilution Chart** shows that you should dilute 0.72 fl. oz. of this product in 10 gallons of water.

<b><i>NIRVANA RTU</i> ORNAMENTAL DILUTION CHART</b>							
<b>Application Rate</b>	<b>Fluid Ounces (mL) of <i>NIRVANA RTU</i> diluted to the Volumes of Finished Spray</b>						
	<b>1 Gallon</b>		<b>5 Gallons</b>		<b>10 Gallons</b>		<b>100 Gallons</b>
<b>Fl. oz./1,000 sq. ft.</b>	<b>Fl. oz.</b>	<b>mL</b>	<b>Fl. oz.</b>	<b>mL</b>	<b>Fl. oz.</b>	<b>mL</b>	<b>Fl. oz.</b>
0.06	0.018	0.5	0.09	2.6	0.18	5.3	1.8
0.12	0.036	1.1	0.18	5.3	0.36	10.6	3.6
0.20	0.072	2.1	0.36	10.6	0.72	21.3	7.2
0.44	0.144	4.3	0.72	21.3	1.44	42.6	14.4

$$\frac{(17.15)(\text{Fl. Oz. of } \textit{NIRVANA RTU} \text{ added to tank})}{(\text{gallons of finished spray mix})(128)} = \text{Percent Active Ingredient of Spray Mix}$$

### ORNAMENTAL AND TREE FOLIAR APPLICATION RATES

The application rates listed in the following table will provide excellent control of the noted pests under typical conditions. However, at the discretion of the applicator, this product may be applied at up to 0.44 fl. oz. per 1,000 sq. ft. (19.4 fl. oz. per 100 gallons) to control each of the pest listed in this table. The higher application rates should be used when maximum residual control is desired.

(Table continued on next page)

PEST	RATES	USE INSTRUCTIONS
Bagworms <sup>1</sup> Cutworms Elm Leaf Beetles Fall Webworms Gypsy Moth Caterpillars Lace Bugs Leaf Feeding Caterpillars Tent Caterpillars Tussock moth	0.06 – 0.12 fl. oz. per 1,000 sq. ft.  (1.8 – 3.8 fl. oz. per 100 gallons)	<sup>1</sup> Bagworms: For best results, apply when larvae begin to hatch and spray larvae directly. Applications when larvae are young will be most effective.  <sup>2</sup> Beetles, Scale Crawlers, Twig Borers, and Weevils: May treat trunks, stems and twigs in addition to plant foliage.  <sup>3</sup> Spider Mites: <i>NIRVANA RTU</i> provides optimal twospotted spider mite control when applied during spring to mid-summer. Higher application rates and/or more frequent treatments may be required for acceptable twospotted spider mite control during mid- to late-summer. The addition of a surfactant or horticultural oil may increase the effectiveness of this product. Combinations of this product with other registered miticides have also proven effective. Alternately, <i>NIRVANA RTU</i> applications may be rotated with those of other products that have different modes of action in control programs that are designed to manage resistance by twospotted spider mites. Consult your local Cooperative Extension Service for resistance management recommendations in your region.
Adelgids Ants (Excluding fire, carpenter, harvester, and pharaoh ants) Aphids Bees Beet Armyworm Beetles <sup>2</sup> Black Vine Weevil (Adults) Scales, such as Brown Soft Scales California Red Scale (Crawlers) <sup>2</sup> Elongated Hemlock Scale Pine Needle Scales (crawlers) <sup>2</sup> San Jose Scales (Crawlers) <sup>2</sup> Broad Mites Budworms Cicadas Citrus Thrips Clover Mites Crickets Earwigs European Red Mite Flea Beetles Fungus Gnats (Adults) Glasswinged Sharpshooter Grasshoppers Japanese Beetle (Adult) Leafhoppers Leafrollers Mealybugs Mites Nantucket Pine Tip Moth Pillbugs Pine sawflies Plant Bugs (including Lygus spp.) Psyllids Spider Mites <sup>3</sup> Spittlebugs Thrips Tip Moths Treehoppers Twig Borers <sup>2</sup> Weevils <sup>2</sup> such as White Pine Weevil Pales Weevil Diaprepes adults Orchid Weevil White flies Zimmerman pine moths	0.12 – 0.20 fl. oz. per 1,000 sq. ft.  (3.6 – 7.2 fl. oz. per 100 gallons)	
Leafminers Pecan Leaf Scorch Mite Pine Shoot Beetle (Adults) Spider Mites <sup>3</sup>	0.20 – 0.44 fl. oz. per 1,000 sq. ft.  (7.2 – 14.4 fl. oz. per 100 gallons)	

## STORAGE AND DISPOSAL

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

### **Pesticide Storage**

**DO NOT STORE BELOW 40 °F.**

Keep out of reach of children and animals. Store in original containers only. Store in a cool, dry place and avoid excess heat. Carefully open containers. After partial use, replace lids and close tightly. **DO NOT** put concentrate or dilute material into food or drink containers. **DO NOT** contaminate other pesticides, fertilizers, water, food, or feed by storage or disposal.

In case of spill, avoid contact, isolate area and keep out animals and unprotected persons. Contain spills. **Call CHEMTREC (Transportation and Spills): (800) 424-9300.**

To confine spill: Dike surrounding area or absorb with sand, cat litter or commercial clay. Place damaged package in a holding container. Identify contents.

### **Pesticide Disposal**

Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative of the nearest EPA Regional Office for guidance.

### **Container Handling**

**Non-refillable container (in sizes 5 gallons or less) - DO NOT** reuse or refill this container. Triple rinse as follows: Empty the remaining contents into application equipment or mix tank and drain for 10 seconds after flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds, pour rinsate into application equipment or mix tank or store rinsate for later use or disposal. Drain for 10 seconds after flow begins to drip. Repeat this procedure two more times Then offer for recycling if available, or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. **DO NOT** cut or weld metal containers.

**Non-refillable container (in sizes greater than 5 gallons): DO NOT** reuse or refill this container. Triple rinse or pressure rinse. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip back and forth several times. Turn the container over onto its other end and tip back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

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

**Returnable/Refillable Containers:** Refill this container with pesticide only. **DO NOT** reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents into application equipment or mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

## CONDITIONS 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 INNVICTIS CROP CARE 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 INNVICTIS CROP CARE LLC and Seller harmless for any claims relating to such factors.

To the extent consistent with applicable law, INNVICTIS CROP CARE 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 INNVICTIS CROP CARE LLC, and Buyer and User assume the risk of any such use. **INNVICTIS CROP CARE 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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