

CHLORANTRANILIPROLE GROUP 28 INSECTICIDE

# SHENZI™ 400SC

## INSECTICIDE

SHENZI 400SC Insecticide is a suspension concentrate.

**SHAKE WELL BEFORE USING.**

Not for sale, sale into, distribution and/or use in Nassau, Suffolk, Kings, and Queens counties of New York state.

### ACTIVE INGREDIENT

Chlorantraniliprole

### BY WEIGHT

3-Bromo-N-[4-chloro-2-methyl-6-[(methlamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-  
1H-pyrazole-5-carboxamide\* ..... 34.2%

**OTHER INGREDIENTS** ..... 65.8%

**TOTAL** ..... 100.0%

\*Contains 3.33 lbs active ingredient per gallon.

EPA Reg. No. 70506-607

EPA Est. No. 41876-IND-004

## CAUTION

### KEEP OUT OF REACH OF CHILDREN

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.)

For chemical emergency: spill, leak, fire, exposure, or accident, call CHEMTREC at 1-800-424-9300.

See inside for additional Precautionary Statements and complete Directions For Use.

## Net Contents: 2.5 Gallons

**INSECTICIDE**

Made in India

**UPL NA Inc.** • PO Box 12219, Research Triangle Park  
NC 27709 U.S.A. • 1-800-438-6071



## FIRST AID

### IF ON SKIN OR CLOTHING:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15 - 20 minutes.
- Call a poison control center or doctor for treatment advice.

### IF INHALED:

- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth to mouth, if possible.
- Call a poison control center or doctor for treatment advice.

### IF IN EYES:

- Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact lenses if present, after the first 5 minutes, then continue rinsing.
- Call a poison control center or doctor for treatment advice.

### IF SWALLOWED:

- Call a poison control center or doctor for treatment advice.
- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to by a poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

Have the product container or label with you when calling a Poison Center or doctor or going for treatment. For emergency medical treatment, contact Rocky Mountain Poison and Drug Safety at 1-866-673-6671. For chemical emergency: spill, leak, fire, exposure, or accident, call CHEMTREC at 1-800-424-9300.

## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Harmful if absorbed through skin. Harmful if inhaled. Avoid contact with skin, eyes or clothing. Avoid breathing (dust, vapor or spray mist).

### PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants.
- Shoes plus socks.
- Chemical-resistant gloves such as: Barrier Laminate, Butyl Rubber  $\geq 14$  mils, Nitrile Rubber  $\geq 14$  mils, Neoprene Rubber  $\geq 14$  mils, Polyvinyl Chloride (PVC)  $\geq 14$  mils, Viton  $\geq 14$  mils.

Follow manufacturer's instructions for cleaning/maintaining personal protective equipment (PPE). If no such instructions for washables exist, use soap and hot water. Keep and wash PPE separately from other laundry.

## User Safety Recommendations:

Users should:

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

## Environmental Hazards

This pesticide is toxic to aquatic invertebrates, oysters, and shrimp. Do not apply directly to water. Drift and runoff may be hazardous to aquatic organisms in water adjacent to use sites.

### Surface Water Advisory

This product may impact surface water quality due to runoff of rainwater. 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. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential loading of chlorantraniliprole from runoff water and sediment. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours.

### Ground Water Advisory

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

### Physical and Chemical Hazards:

Do not mix or allow coming in contact with Oxidizing agents. Hazardous Chemical reaction may occur.

## DIRECTIONS FOR USE

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

SHAKE WELL BEFORE USING.

SHENZI 400SC Insecticide must be used only in accordance with the directions on this label, in separate EPA-approved labeling (Supplemental Labels, Special Local Need Registrations, FIFRA Section 18 exemptions), or as otherwise permitted by FIFRA. Always read the entire label, including the Limitation of Warranty and Liability. SHENZI 400SC Insecticide may be used on crops on this label that are grown for seed production.

### Use Restrictions:

- **DO NOT** apply SHENZI 400SC Insecticide through any type of irrigation system unless specified in this label or in EPA-approved supplemental labeling.
- **DO NOT** treat plants grown for transplanting. Not for use in nurseries, plant propagation houses by commercial transplant producers on plants being grown for transplanting.
- **DO NOT** use in greenhouses.
- This product is only for agricultural use.

- This product may be used on crops on this label grown for seed production.
- Not for use on ornamental plants or plants being grown for ornamental purposes.
- Not for residential use.

#### New York State Restrictions:

- SHENZI 400SC Insecticide may not be applied within 100 feet of a water body (lake, pond, river, stream, wetland, or drainage ditch).
- Aerial application of this product is prohibited.
- Not for sale, sale into, distribution and/or use in Nassau, Suffolk, Kings, and Queens counties of New York State.

### 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. These requirements only apply to uses of this product that are covered by the Worker Protection Standard.

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 State or Tribal agency responsible for pesticide regulations.

#### Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 4 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, are:

- Long-sleeved shirt and long pants
- Shoes plus socks
- Chemical-resistant gloves such as: Barrier Laminate, Butyl Rubber  $\geq$  14 mils, Nitrile Rubber  $\geq$  14 mils, Neoprene Rubber  $\geq$  14 mils, Polyvinyl Chloride (PVC)  $\geq$  14 mils, Viton  $\geq$  14 mils.

### PRODUCT INFORMATION

SHENZI 400SC Insecticide is a suspension concentrate that is to be applied as a foliar spray, using ground or aerial application equipment to control listed insects. Not all application methods are allowed on all crops, so see the specific crop section of this label for which application methods may be used for a particular crop. SHENZI 400SC Insecticide is mixed with water for application.

SHENZI 400SC Insecticide is a member of the anthranilic diamide class of insecticides with a novel mode of action acting on insect ryanodine receptors. Although SHENZI 400SC Insecticide has contact activity, it is most effective through ingestion of treated plant material. After exposure to SHENZI 400SC Insecticide, affected insects will rapidly stop feeding, become paralyzed, and typically die within 1 - 3 days. Time applications to the most susceptible insect pest stage, typically at egg lay to egg hatch and/or newly hatched larvae before populations reach damaging levels. If possible, make applications at or before egg deposition to be most effective in minimizing damage levels caused by insect pests.

### Resistance-Management Recommendations

For resistance management, SHENZI 400SC Insecticide is a Group 28 insecticide. Repeated and exclusive use of SHENZI 400SC Insecticide (active ingredient chlorantraniliprole, belonging to the anthranilic diamide class of chemistry), or other Group 28 insecticide may lead to the buildup of resistant strains of insects in some crops.

Some insects are known to develop resistance to products used repeatedly for control. Because the development of resistance cannot be predicted, this product may be used as part of resistance-management strategies established for the use area. These strategies may include incorporation of cultural and biological control practices, alternative of mode-of-action classes of insecticides on succeeding generations and targeting the most susceptible life stage. Consult your local or state agricultural authorities for details.

Unless directed otherwise in the specific crop/pest sections of this label, the best practices are to follow these instructions to delay the development of insecticide resistance:

- Avoid using the same mode of action (same IRAC group number) on consecutive generations of insect pests.
- Apply SHENZI 400SC Insecticide or other Group 28 insecticides using a "treatment window" approach to avoid exposure of successive insect pest generations to the same mode of action.
- A "treatment window" is defined as the period of residual activity provided by single or sequential applications of products with the same mode of action. This "treatment window" should not exceed approximately the length of one generation of the target pest, or about 30 days.
- Within the "Group 28 treatment window", make no more than 2 successive applications of SHENZI 400SC Insecticide or other Group 28 insecticides, unless otherwise directed in the specific crop/pest sections of this label.
- Following a "Group 28 treatment window", rotate to a treatment window of effective products with a different mode of action. This "non-Group 28 window" should approximate the duration of one generation of the target pest, or about 30 days.
- The total exposure of all Group 28 products applied throughout the crop cycle (from seedling to harvest) should not exceed approximately 50% of the crop cycle or 50% of the total number of insecticide applications targeted for the same pest species.
- For short cycle crops (<50 days), the duration of the crop cycle may be considered as the Group 28 "treatment window" as long as no Group 28 insecticides are used during the next crop cycle at the same growing location.
- Avoid using less than the labeled rates of SHENZI 400SC Insecticide when applied alone or in tank mixtures.
- Target the most susceptible insect life stages, whenever possible.
- Monitor insect populations for product effectiveness.
- If resistance to SHENZI 400SC Insecticide control develops in your area, SHENZI 400SC Insecticide control or other products with a similar mode of action, may not provide adequate control. If poor performance cannot be attributed to improper application or extreme weather conditions, a resistant strain of insect may be present. If you experience difficulty with control and resistance is a reasonable cause, immediately consult your local UPL NA Inc. representative or agricultural advisor for the best alternate method of control for your area. For additional information on insect resistance monitoring, visit the Insecticide Resistance Action Committee (IRAC) on the web at <http://www.irac-online.org>.

## APPLICATION INSTRUCTIONS

Apply at the specified rates when insect populations reach locally determined economic thresholds. Consult the cooperative extension service, professional consultants, or your UPL NA Inc. representative to determine appropriate threshold levels for treatment in your area.

Apply follow-up treatments of SHENZI 400SC Insecticide, as specified, to keep pest populations within threshold limits. Refer to the **Resistance-Management Recommendations** section of this label for further guidance on follow-up treatments. See individual crop sections of this label for specific minimum spray interval. Use sufficient water to obtain thorough, uniform coverage. Because SHENZI 400SC Insecticide is most effective through ingestion of treated plant material, thorough spray coverage is essential for optimum control of targeted pest insects. Using increased water volumes will typically result in better spray coverage, especially under adverse conditions such as dry, hot weather or dense plant foliage.

SHENZI 400SC Insecticide is to be applied by ground (including an in-furrow spray at planting or foliar), overhead or aerial application equipment as specified under the individual crop. Not all application methods are allowed on all crops; see specific crop sections of this label for which application methods may be used.

SHENZI 400SC Insecticide may be applied by overhead chemigation only on certain crops as listed on this label; for overhead chemigation applications see, **APPLICATION BY CHEMIGATION** section of this label.

**Use of Adjuvants** - In some situations where coverage is difficult to achieve such as closed canopy, dense foliage, plants with waxy leaf surfaces, excessive rainfall or less than optimum application equipment, an adjuvant may improve performance. Use only adjuvant products that are labeled for agricultural use and follow the directions on the manufacturer's label. Always conduct a premix test for compatibility. Use a proven adjuvant that does not affect foliage and/or fruit finish. Refer to specific crop sections of this label for additional adjuvant guidance.

**CHEMIGATION USING OVERHEAD SPRINKLER SYSTEMS - ONLY FOR APPLICATION TO CEREAL GRAINS, CORN (FIELD, POP, SWEET, GROWN FOR SEED), COTTON, CRANBERRY, GRASS FORAGE (FODDER AND HAY), LEGUMES, MINT (PEPPERMINT AND SPEARMINT), NON-GRASS ANIMAL FEEDS, OILSEED GROUP, PEANUT, POTATO, SOYBEAN, SUGARCANE**

### Instructions for the Use of SHENZI 400SC Insecticide in Overhead Sprinkler Chemigation Systems

Types of Chemigation Systems: SHENZI 400SC Insecticide may be applied only through overhead sprinkler irrigation systems. Overhead irrigation systems include the following: center pivot, end tow, hand move, lateral move, side roll, solid set and wheel line. The irrigation system used must provide uniform water distribution.

Apply SHENZI 400SC Insecticide in sufficient water and of sufficient duration to ensure the specified rate is applied evenly to the entire treated area. Do not allow irrigation water to collect or runoff during chemigation; do not allow pooling of irrigation water. Inject SHENZI 400SC Insecticide downstream from any water filtration system.

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.

When the application is finished, allow the entire irrigation and injector system to be thoroughly flushed clean before stopping the system.

## Directions for Chemigation:

### Preparation

A pesticide tank is recommended for the application of SHENZI 400SC Insecticide in chemigation systems. Thoroughly clean the injection system and tank of any fertilizer or chemical residues using a standard clean-out procedure. Dispose of any residues in accordance with State and Federal laws. With the mix tank 1/4 to 1/2 full with water and the agitator running, measure the required amount of SHENZI 400SC Insecticide and add it to the tank. Then add additional water to bring your total pesticide mixture up to the desired volume for your application.

Note: Always add the SHENZI 400SC Insecticide to water, never put SHENZI 400SC Insecticide into a dry tank or other mixing equipment without first adding water.

See **Tank Mixing Sequence** section of the container label for tank mixing sequence. Continue to agitate the mixture throughout the application process. Use mechanical or hydraulic agitation, do not use air agitation.

### Injection Into Chemigation Systems

Inject the specified amount of SHENZI 400SC Insecticide into the irrigation water flow using a positive displacement injection pump. Injection should occur at a point in the main irrigation water flow to ensure thorough mixing with the irrigation water. For continuously moving systems, inject the solution containing SHENZI 400SC Insecticide into the irrigation water line continually and uniformly throughout the irrigation cycle. Apply in no more than 0.2 inches of water per acre. For overhead sprinkler systems that are stationary, add the solution containing SHENZI 400SC Insecticide to the irrigation water line and apply no more than 0.2 inches of water per acre.

### Uniform Water Distribution

The irrigation system used for application of SHENZI 400SC Insecticide must provide for uniform distribution of SHENZI 400SC Insecticide treated water. Non-uniform distribution can result in crop injury, lack of effectiveness or illegal pesticide residues in or on the crop being treated. Ensure the irrigation system is calibrated to uniformly distribute the chemigation application to the crop. Contact the equipment manufacturer, the local University Extension agent or other experts if you have questions about achieving uniform distribution of the application.

### Equipment Calibration

Calibrate the irrigation system and injector before applying SHENZI 400SC Insecticide. Calibrate the injection pump while the system is running using the expected irrigation rate. If you have questions about calibration, you should contact your state extension service specialists, equipment manufacturer or other experts.

### Monitoring of Chemigation Applications

A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of a responsible person, shall shut the system down and make necessary adjustments should the need arise. Wear the personal protective equipment as defined in the PPE section of the label for applicators and other handlers when making adjustments or repairs on the chemigation system when SHENZI 400SC Insecticide is in the irrigation water.

### Operation

Start the water pump and sprinkler, and let the system achieve the desired pressure and speed before starting the injector. Start the injector and calibrate the injection system according to the directions above. This procedure is necessary to deliver the desired rate per acre in a uniform manner. When the

application is finished, allow the entire irrigation and injector system to be thoroughly flushed clean before stopping the system.

- End guns must be turned off during the application, if they irrigate non-target areas or if they do not provide uniform application and coverage.
- It is recommended that nozzles in the immediate area of wells, control panels, chemical supply tanks and system safety devices be plugged to prevent contamination of these areas.
- Do not apply when wind speed favors drift beyond the area intended for treatment.
- Do not apply when system connections or fittings leak or when nozzles do not provide uniform distribution.
- Do not allow irrigation water to collect or run-off during chemigation.

### Required System Safety Devices

Do not connect any irrigation system used for pesticide applications to a public water system unless the pesticide label prescribed safety devices are in place. Public water system means a system for the provision to the public of piped water for human consumption, if such a system has at least 15 service connections or regularly serves an average of at least 25 individuals at least 60 days out of the year.

1. The 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 backflow.
2. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
3. 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.
4. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
5. 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.
6. Systems must use a metering pump such as a positive displacement injection pump (e.g. diaphragm pump).
7. Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, backflow 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 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.

## APPLICATION INSTRUCTIONS DRIP (TRICKLE) CHEMIGATION

SHENZI 400SC Insecticide must be applied in a manner that ensures the product is in the root zone. SHENZI 400SC Insecticide must be in the root zone to provide effective control of target pests. SHENZI 400SC Insecticide is most effective when it is applied so that the roots are at or near the site of application; manage irrigation so that significant quantities of SHENZI 400SC Insecticide remain in the root zone where it is most effective. Unless directed

otherwise in the specific crop sections of this label, a total of two applications can be made per crop season. Any subsequent SHENZI 400SC Insecticide treatments must be foliar applications.

1. Do not begin applications until after crop emergence in direct seeded crops.
2. Do not make applications if soil moisture is below the level required for active plant growth.
3. This product must be applied uniformly in the root zone or poor performance will result. Drip tape or emitters must be located within or directly adjacent to the root zone.
4. The drip system must be properly designed, free of leaks, and operated in manner that provides uniform application of water throughout the field.
5. In most situations, this product should be applied during the first 1/3 of the irrigation cycle, starting just after the system has come up to pressure.
6. The minimum injection period is the time that it takes water to move from the injection point to the furthest emitter in the irrigation zone (propagation time). If this time is not known, it can be calculated by measuring the time for a soluble dye to move from the injection point to the farthest emitter. A longer injection improves uniformity throughout the zone, but needs to allow for at least an equal period of water to flush the system and move the product through the soil.

## SOIL APPLICATIONS

SHENZI 400SC Insecticide must be applied in a manner that ensures the product is in the root zone. SHENZI 400SC Insecticide must be in the root zone to provide effective control of target pests. SHENZI 400SC Insecticide is most effective when it is applied so that the roots are at or near the site of application; manage irrigation so that significant quantities of SHENZI 400SC Insecticide in the root zone where it is most effective. Maintaining soil moisture to field capacity or to meet crop needs and environmental conditions aids in product availability to the roots and can improve efficacy. Applications of SHENZI 400SC Insecticide to the root zone allow the active ingredient to be transported from the roots through the xylem providing upward systemicity. SHENZI 400SC Insecticide is translocated to the canopy beginning immediately after the application, reaching an effective concentration in 1 to 3 days for seedlings and up to 7 days for larger plants. As the plant grows, the roots continue to absorb the available SHENZI 400SC Insecticide from the reservoir in the soil providing extended protection of the plant canopy including new growth.

The length of control provided following soil applications will depend on the rate used, the pest being controlled and the environmental conditions; such as soil type, soil moisture, soil pH, etc. Use the higher specified rate within the rate range when pests are expected to occur later in the crop growth cycle or when pests are expected to be present continuously.

SHENZI 400SC Insecticide will primarily have activity in the foliage of treated plants and will not provide protection within the blooms and fruit. Foliar applications of other products may be needed to protect these parts of the plant. Unless directed otherwise in the specific crop sections of this label, only one soil application of SHENZI 400SC Insecticide can be made per crop season.

### In-Furrow Spray at Planting:

Apply as a narrow band spray into the furrow at the seeding depth.

For insecticide resistance management, it is important to avoid consecutive applications of insecticides with the same mode of action on successive generations of the same pest. See crops on label for recommended treatment rates and additional use information.

Rate Conversion Chart for SHENZI 400SC insect control for Drip (Trickle) Chemigation and At-Plant Soil Application																
Target Rate in Fl Oz/Acre	Rate in Fluid Ounces Product/1000 Row-Foot Based on Planted Row Spacing (in inches) of:															
	15	20	25	30	34	36	38	40	44	48	60	66	72	78	80	84
1											0.115	0.126	0.138	0.149	0.153	0.161
1.7				0.098	0.111	0.117	0.124	0.130	0.143	0.156	0.195	0.215	0.234	0.254	0.260	0.273
2.1		0.080	0.100	0.121	0.137	0.145	0.153	0.161	0.177	0.193	0.241	0.265	0.289	0.313	0.321	0.337
2.5		0.096	0.120	0.143	0.163	0.172	0.182	0.191	0.210	0.230	0.287	0.316	0.344	0.373	0.383	0.402
3.4	0.098	0.130	0.163	0.195	0.221	0.234	0.247	0.260	0.286	0.312	0.390	0.429	0.468	0.507	0.520	0.546
3.8	0.109	0.145	0.182	0.218	0.247	0.262	0.276	0.291	0.320	0.349	0.436	0.480	0.523	0.567	0.582	0.611
Level and length of control is affected by rate applied.																
Higher labeled rates may be required in heavy texture and/or high organic soils if application is made later in the crop development, or when pest pressure is high.																

## SPRAY PREPARATION

Spray equipment must be clean and free of previous pesticide deposits before applying SHENZI 400SC Insecticide. Fill spray tank 1/4 to 1/2 full of water. Use a well calibrated measuring device that is appropriate for the low doses that may be required with this high concentration product to avoid under or over-dosing. Add SHENZI 400SC Insecticide directly to spray tank. Mix thoroughly to fully disperse the insecticide; once dispersed continued agitation is required. Use mechanical or hydraulic means; do not use air agitation. Do not store spray mix solutions overnight in spray tank. Observe the most restrictive of the labeling limitations and precautions of all products used in mixtures.

## TANK MIXTURES

This product can be mixed with pesticide products that are labeled for use on the same crops as SHENZI 400SC Insecticide. Do not exceed labeled dosage rates. This product cannot be mixed with any product containing a label prohibition against such mixing.

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.

Before using a tank mix for the first time, always determine the compatibility of SHENZI 400SC Insecticide with the tank mixtures by using a jar test.

**Compatibility:** Since formulations may be changed and new ones introduced, premix a small quantity of a desired tank mix, and observe for possible adverse changes (settling out, flocculation, etc.).

Steps to conduct a jar test to determine physical tank mix compatibility of SHENZI 400SC Insecticide with other products:

- Use the most restrictive PPE of the products to be tested.
- Add clean water to jar proportional to the planned water volume that will be used in the spray tank (a jar size of 8 - 16 oz is acceptable).
- Mix proper proportions of SHENZI 400SC Insecticide and desired tank mix partner(s) as will be present in the spray tank, add one product at a time following the sequence of addition according to formulation type provided in this label.
- Seal and shake mixture after each product is added.
- Allow to stand for 1 hour.
- View jar to determine if settling, flocculation, crystallization or any other undesirable changes have happened.
- If none of the above is observed or the solution can be easily remixed after shaking, the mixture is compatible with SHENZI 400SC Insecticide.

- If the tank mix is not compatible, a higher water volume, reduced rate of the tank mix partner(s), reduced number of tank mix partners or a compatibility agent may be needed.

**Tank Mixtures and Crop Safety** - Crop varieties can differ in their responsiveness to tank mixtures, and environmental conditions can have an influence on product performance and crop response. It is not possible to test SHENZI 400SC Insecticide alone or with all possible tank mix combinations on all varieties under all environmental conditions. When considering the use of a tank mixture on a labeled crop without prior experience, or which is not specifically described on SHENZI 400SC Insecticide product labeling or in other UPL NA Inc. product use instruction, it is important to check crop safety first. To test for crop safety prepare a small volume of the intended tank mixture, apply it to an area of the target crop as directed by both this and the tank mix partner product labels, and observe the treated crop to ensure that a phytotoxic response does not occur.

Use of SHENZI 400SC Insecticide in any tank mixture applications that is not specifically described on SHENZI 400SC Insecticide product labeling or in other UPL NA Inc. product use instructions, could potentially result in crop injury. Follow the precautions on this label and on the label for any other product to be used in tank mixtures before making such applications to your crops. Follow the most restrictive labeling. UPL NA Inc. will not be responsible for any crop injury arising from the use of a tank mixture that is not specifically described on SHENZI 400SC Insecticide product labeling or in other UPL NA Inc. product use instruction.

**Tank Mixing Sequence** - Fill spray tank 1/4 to 1/2 full of water. While agitating, add the different formulation types in the sequence indicated below\*. Allow time for complete mixing and dispersion after addition of each product before adding the next product.

Allow time for complete mixing and dispersion after addition of each product.

1. Water soluble bag (WSB)
2. Water soluble granules (SG)
3. Water dispersible granules (WG, XP, DF)
4. Wettable powders (WP)
5. SHENZI 400SC Insecticide and other water-based suspension concentrates (SC)
6. Water-soluble concentrates (SL)
7. Suspoemulsion (SE)
8. Oil based suspension concentrates (OD)
9. Emulsifiable concentrates (EC)
10. Adjuvants, surfactants, oils
11. Soluble fertilizers
12. Drift retardants

\* Unless otherwise specified by manufacturer directions for use or by local experience.

## SPRAY TANK CLEANOUT

Prior to application, start with clean, well maintained application equipment. Immediately following application, thoroughly clean all spray equipment to reduce the risk of forming hardened deposits which might become difficult to remove. Drain spray equipment. Thoroughly rinse sprayer and flush hoses, boom, and nozzles with clean water. Clean all other associated application equipment. Take all necessary safety precautions when cleaning equipment. Do not clean near wells, water sources or desirable vegetation. Dispose of waste rinse water in accordance with local regulations or at an approved waste disposal facility.

## SPRAY DRIFT MANAGEMENT

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

AVOIDING SPRAY DRIFT IS THE RESPONSIBILITY OF THE APPLICATOR.

## IMPORTANCE OF DROPLET SIZE

The most effective drift management strategy is to apply the largest droplets which are consistent with pest control objectives. The presence of sensitive species nearby, the environmental conditions, and pest pressure may affect how an applicator balances drift control and coverage. Applying larger droplets reduces drift potential but will not prevent drift if applications are made improperly or under unfavorable environmental conditions.

A droplet size classification system describes the range of droplet sizes produced by spray nozzles. The American Society of Agricultural and Biological Engineers (ASABE) provide a Standard that describes droplet size spectrum categories defined by a number of reference nozzles (fine, coarse, etc.). Droplet spectra resulting from the use of a specific nozzle may also be described in terms of volume mean diameter (VMD). Coarser droplet size spectra have larger VMD's and lower drift potential.

### Controlling Droplet Size - Ground Application

**Nozzle Type** - Select a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. The use of low-drift nozzles will reduce drift potential.

**Pressure** - The lowest spray pressures recommended for the nozzle produce the largest droplets. Higher pressure reduces droplet size and does not improve canopy penetration. When higher flow rates are needed, using a higher-capacity nozzle instead of increasing pressure results in the coarsest droplet spectrum.

**Flow Rate/Orifice Size** - Using the highest flow rate nozzles (largest orifice) that are consistent with pest control objectives reduces the potential for spray drift. Nozzles with higher rated flows produce coarser droplet spectra.

### Controlling Droplet Size - Aircraft

**Number of Nozzles** - Using the minimum number of nozzles with the highest flow rate that provide uniform coverage will produce a coarser droplet spectrum.

**Nozzle Orientation** - Orienting nozzles in a manner that minimizes the effects of air shear will produce the coarsest droplet spectra. For some nozzles such as solid stream, pointing the nozzles straight back parallel to the airstream will produce a coarser droplet spectrum than other orientations.

**Nozzle Type** - Solid stream, or other low drift nozzles produce the coarsest droplet spectra.

**Do not apply as a ULV application.**

## BOOM LENGTH AND HEIGHT

**Boom Length (aircraft)** - The boom length must not exceed 3/4 of the wing length; using shorter booms decreases drift potential. For helicopters use the boom length and position that prevents droplets from entering the rotor vortices.

**Boom Height (aircraft)** - Application more than 10 ft above the canopy increases the potential for spray drift. Applications made at the lowest height consistent with pest control objectives, and the safe operation of the aircraft will reduce the potential for spray drift.

**Boom Height (ground)** - Applications made at the lowest height consistent with pest control objectives, and that allow the applicator to keep the boom level with the application site and minimize bounce, will reduce the exposure of spray droplets to evaporation and wind and reduce spray drift potential.

## WIND

Drift potential increases at wind speeds of less than 3 mph (due to variable direction and inversion potential) or more than 10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given wind speed. **DO NOT APPLY DURING GUSTY OR WINDLESS CONDITIONS.**

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

## TEMPERATURE AND HUMIDITY

When making applications in hot and dry conditions, set up equipment to produce larger droplets to reduce effects of evaporation.

## SURFACE TEMPERATURE INVERSIONS

Drift potential is high during a surface temperature inversion. Surface inversions restrict vertical air mixing, which causes small-suspended droplets to remain close to the ground and move laterally in a concentrated cloud. Surface inversions are characterized by increasing temperature 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 a surface inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

## SHIELDED SPRAYERS

Shielding the boom or individual nozzles can reduce the effects of wind. However, it is the responsibility of the applicator to verify that the shields are preventing drift and not interfering with uniform deposition of the product.

## TREE AND VINE SPRAYERS

Air assisted tree and vine sprayers carry droplets into the canopy of trees and vines via a radially or laterally directed air stream. In addition to the general drift management principles already described, the following specific practices will further reduce the potential for drift:

- Adjust deflectors and aiming devices so that spray is only directed into the canopy.
- Block off upward pointed nozzles when there is no overhanging canopy.
- Use only enough air volume to penetrate the canopy and provide good coverage.
- Movement of spray that goes beyond the edge of the cultivated area may be minimized by practices such as spraying the outside row only from outside the planting.

Drain spray equipment. Thoroughly rinse sprayer and flush hoses, boom and nozzles with clean water. Clean all other associated application equipment. Take all necessary safety precautions when cleaning equipment. Do not clean near wells, water sources or desirable vegetation. Dispose of waste rinse water in accordance with local regulations.

## CROP ROTATION

May be planted immediately following harvest:	<p>All crops on this label:</p> <p>Artichoke, globe</p> <p>Asparagus</p> <p>Banana/Plantain</p> <p>Brassica (Cole) Leafy Vegetables (Crop Group 5)</p> <p>Bulb Vegetables (Crop Group 3-07)</p> <p>Bushberry subgroup (Crop subgroup 13-07B)</p> <p>Caneberry subgroup (Berry and Small Fruit Crop Group subgroup 13-07A)</p> <p>Large Shrub/Tree Berry subgroup (Crop subgroup 13-07C)</p> <p>Low Growing Berry subgroup (Crop subgroup 13-07G)</p> <p>Small Fruit Vine Climbing subgroup, except fuzzy kiwifruit (Berry and Small Fruit Crop Group subgroup 13-07F)</p> <p>Cacao</p> <p>Cereal Grains (Crop Group 15)</p> <p>Forage, Fodder, and Straw of Cereal Grains (Crop Group 16)</p> <p>Citrus (Crop Group 10-10)</p> <p>Coffee</p> <p>Corn (field, pop, seed, and sweet)</p> <p>Cotton</p> <p>Cucurbit Vegetables (Crop Group 9)</p> <p>Figs</p> <p>Fruiting Vegetables (Crop Group 8-10)</p> <p>Grass Forage, Fodder, and Hay Group (Crop Group 17)</p> <p>Herbs subgroup (Crop Group subgroup 19A)</p> <p>Grape</p> <p>Hops</p> <p>Leafy Vegetables (nonbrassica, Crop Group 4)</p> <p>Legume Vegetables (Crop Group 6)</p> <p>Foliage of Legume Vegetables (Crop Group 7)</p> <p>Nongrass Animal Feeds (Forage, Fodder, Straw, and Hay Crop Group 18)</p> <p>Okra</p> <p>Oilseed Group (Crop Group 20)</p> <p>Olives</p> <p>Peanut</p> <p>Persimmons</p> <p>Pome Fruits (Crop Group 11-10)</p> <p>Pineapple</p> <p>Pomegranates</p> <p>Prickly Pear Cactus</p> <p>Rice</p> <p>Root and Tuber Vegetables (Crop Group 1)</p> <p>Leaves of Root and Tuber Vegetables (Crop Group 2)</p> <p>Soybean</p> <p>Spice subgroup (Crop Group subgroup 19B)</p> <p>Spearmint and Peppermint</p> <p>Stone Fruits (Crop Group 12-12)</p> <p>Sugarcane: Tea</p> <p>Tree Nuts and Pistachio (Crop Group 14)</p> <p>Tobacco</p> <p>Tropical Fruits (acerola, atemoya, avocado, biriba, black sapote, canistel, cherimoya, custard apple, ilama, feijoa, guava, jaboticaba, longan, lychee, mamey sapote, mango, papaya, passionfruit, pulasan, rambutan, sapodilla, soursop, Spanish lime, star apple, starfruit, sugar apple, wax jambu, and White sapote (Casimiroa), and/or hybrids of these).</p>
Must be planted 12 months after last application of SHENZ 400SC Insecticide	All other crops



## USE DIRECTIONS FOR FOLIAR APPLICATIONS ONLY

Crop	Application Method	Insect	SHENZI 400SC Insecticide Rate Per Acre in Fl Oz (LB AI)	Re-Treatment Interval in Days (RTI)	Pre-Harvest Interval in Days (PHI)	Re-Entry Interval in Hours (REI)
Artichoke, globe	Foliar	Artichoke plume moth	1.7 - 3.8 (0.044 - 0.098)	14	3	4

**APPLICATION INSTRUCTIONS:**

- Apply higher rates within the listed range for heavier infestations, larger/denser crops, or extreme environmental conditions such as rainy weather and high temperatures.

**Spray Volume:**

- Apply in a minimum of 10 gals water per acre by air and 50 - 200 gals of water per acre by ground (use sufficient water to obtain thorough coverage without excessive runoff). The highest labeled rate for a specified pest may be necessary when aerial applications are made.

**RESTRICTIONS:**

- DO NOT make more than 4 applications per acre per calendar year.
- DO NOT apply more than 7.7 fl oz of SHENZI 400SC Insecticide or 0.2 lb ai chlorantraniliprole containing products per acre per calendar year.
- Make applications between bud formation and harvest of an individual fruit.

Crop	Application Method	Insect	SHENZI 400SC Insecticide Rate Per Acre in Fl Oz (LB AI)	Re-Treatment Interval in Days (RTI)	Pre-Harvest Interval in Days (PHI)	Re-Entry Interval in Hours (REI)
Asparagus	Foliar	Beet armyworm, Western yellowstriped armyworm	1.7 - 3.8 (0.044 - 0.098)	3	1	4

**APPLICATION INSTRUCTIONS:**

- Apply higher rates within the listed range for heavier infestations, larger/denser crops, or extreme environmental conditions such as rainy weather and high temperatures.

**Spray Volume:**

- Apply in a minimum of 5 gals water per acre by air and 10 gals of water per acre by ground (use sufficient water to obtain thorough coverage without excessive runoff). The highest labeled rate for a specified pest may be necessary when aerial applications are made.

**RESTRICTIONS:**

- DO NOT make more than 4 applications per acre per calendar year.
- DO NOT apply more than 7.7 fl oz of SHENZI 400SC Insecticide or 0.2 lb ai chlorantraniliprole containing products per acre per calendar year.

Crop	Application Method	Insect	SHENZI 400SC Insecticide Rate Per Acre in Fl Oz (LB AI)	Re-Treatment Interval in Days (RTI)	Pre-Harvest Interval in Days (PHI)	Re-Entry Interval in Hours (REI)
Grains Cereal (EPA Crop Group 15) except Corn and Rice Including: Barley, Buckwheat, Pearl Millet, Proso Millet, Oats, Rye, Sorghum (milo), Sorghum spp. [grain sorghum, sudangrass (seed crop), and hybrids of these grown for its seed], Teosinte, Triticale, Wheat, Wild Rice	Foliar Overhead Chemigation	Beet armyworm, Corn earworm, European corn borer, Fall armyworm, Sorghum webworm, Southwestern corn borer, Sugarcane borer, True armyworm, Wheathead armyworm	1.7 - 3.8 (0.044 - 0.098)	7	1	4
		Grasshoppers	1.0 - 2.5 (0.026 - 0.065)			

#### APPLICATION INSTRUCTIONS:

- Apply higher rates within the listed range for heavier infestations, larger/denser crops, or extreme environmental conditions such as rainy weather and high temperatures.
- SHENZI 400SC Insecticide can be applied by overhead sprinkler chemigation systems. See **CHEMIGATION USING OVERHEAD SPRINKLER SYSTEMS** section for instructions on overhead sprinkler chemigation.

#### Spray Volume:

- Apply in a minimum of 2 gals water per acre by air and 10 gals of water per acre by ground (use sufficient water to obtain thorough coverage without excessive runoff). The highest labeled rate for a specified pest may be necessary when aerial applications are made.

**Grasshopper:** Apply foliar when grasshopper populations reach local established thresholds to prevent crop damage. Correct timing of spray applications to nymphal stages and thorough coverage is critical to achieve control. Performance is improved with the addition of a Methylated Seed Oil (MSO) adjuvant at 1 gallon per 100 gallons of spray volume (1% v/v) when eggs have hatched, and the majority of the grasshopper population is 2nd - 3rd instar nymphs. Once grasshoppers contact and/or ingest SHENZI 400SC Insecticide there will be rapid feeding cessation; insect mortality may not occur until a week later or longer.

#### RESTRICTIONS:

- DO NOT make more than 4 applications per acre per calendar year.
- DO NOT apply more than 7.7 fl oz of SHENZI 400SC Insecticide or 0.2 lb ai chlorantraniliprole containing products per acre per calendar year.
- DO NOT make more than two sequential applications of SHENZI 400SC Insecticide before rotating to another registered insecticide having a different mode-of-action.

Crop	Application Method	Insect	SHENZI 400SC Insecticide Rate Per Acre in Fl Oz (LB AI)	Re-Treatment Interval in Days (RTI)	Pre-Harvest Interval in Days (PHI)	Re-Entry Interval in Hours (REI)
Corn (field, pop)	SOIL AT PLANTING: In-Furrow spray	Army cutworm, Black cutworm, Clay-backed cutworm, Common stalkborer, Dingo cutworm, European corn borer, Fall armyworm, Sandhills cutworm, Southern armyworm, True armyworm	2.5 - 3.8 (0.065 - 0.098) See <b>Rate Conversion</b> for per 1000 linear ft.	7	14	4
	Foliar Overhead Chemigation	Army cutworm, Beet armyworm, Black cutworm, Clay-backed cutworm, Corn earworm, Dingo cutworm, European corn borer, Fall armyworm, Sandhills cutworm, Southern armyworm, Southwestern corn borer, True armyworm, Western bean cutworm	1.7 - 3.8 (0.044 - 0.098)			
		Grasshoppers	1.0 - 2.5 (0.026 - 0.065)			

#### APPLICATION INSTRUCTIONS:

- Apply higher rates within the listed range for heavier infestations, larger/denser crops, or extreme environmental conditions such as rainy weather and high temperatures.
- SHENZI 400SC Insecticide can be applied by overhead sprinkler chemigation systems. See **CHEMIGATION USING OVERHEAD SPRINKLER SYSTEMS** section for instructions on overhead sprinkler chemigation.

#### Spray Volume:

- Apply in a minimum of 2 gals water per acre by air and 10 gals of water per acre by ground (use sufficient water to obtain thorough coverage without excessive runoff). The highest labeled rate for a specified pest may be necessary when aerial applications are made.

#### Soil Applications:

- In-Furrow Spray at Planting
- Apply as a narrow band spray into the furrow at the seeding depth.
- SHENZI 400SC Insecticide insect control must be applied in a manner that ensures the product is in the root zone. SHENZI 400SC Insecticide insect control is most effective when it is applied so that the roots are at or near the site of application; manage irrigation so that significant quantities of SHENZI 400SC Insecticide insect control remain in the root zone where it is most effective. Unless directed otherwise in the specific crop sections of this label, only one soil application of SHENZI 400SC Insecticide insect control can be made per crop.

**Grasshopper:** Apply foliar when grasshopper populations reach local established thresholds to prevent crop damage. Correct timing of spray applications to nymphal stages and thorough coverage is critical to achieve control. Performance is improved with the addition of a Methylated Seed Oil (MSO) adjuvant at 1 gallon per 100 gallons of spray volume (1% w/v) when eggs have hatched, and the majority of the grasshopper population is 2nd - 3rd instar nymphs. Once grasshoppers contact and/or ingest SHENZI 400SC Insecticide there will be rapid feeding cessation; insect mortality may not occur until a week later or longer.

#### RESTRICTIONS:

- DO NOT make more than 4 applications per acre per calendar year.
- DO NOT apply more than 7.7 fl oz of SHENZI 400SC Insecticide or 0.2 lb ai chlorantraniliprole containing products per acre per calendar year.
- DO NOT make more than two sequential applications of SHENZI 400SC Insecticide before rotating to another registered insecticide having a different mode-of-action.

Crop	Application Method	Insect	SHENZI 400SC Insecticide Rate Per Acre in Fl Oz (LB AI)	Re-Treatment Interval in Days (RTI)	Pre-Harvest Interval in Days (PHI)	Re-Entry Interval in Hours (REI)
Corn (sweet) Corn (grown for seed)	SOIL AT PLANTING: In-Furrow spray	Army cutworm, Black cutworm, Clay-backed cutworm, Common stalkborer, Dingo cutworm, European corn borer, Fall armyworm, Sandhills cutworm, Southern armyworm, True armyworm	2.5 - 3.8 (0.065 - 0.098) See <b>Rate Conversion</b> for per 1000 linear ft.	1	1	4
	Foliar Overhead Chemigation	Army cutworm, Beet armyworm, Black cutworm, Clay-backed cutworm, Corn earworm, Dingo cutworm, European corn borer, Fall armyworm, Sandhills cutworm, Southern armyworm, Southwestern corn borer, True armyworm, Western bean cutworm	1.7 - 3.8 (0.044 - 0.098)			
		Grasshoppers	1.0 - 2.5 (0.026 - 0.065)			

#### APPLICATION INSTRUCTIONS:

- Apply higher rates within the listed range for heavier infestations, larger/denser crops, or extreme environmental conditions such as rainy weather and high temperatures.
- SHENZI 400SC Insecticide can be applied by overhead sprinkler chemigation systems. See **CHEMIGATION USING OVERHEAD SPRINKLER SYSTEMS** section for instructions on overhead sprinkler chemigation.

#### Spray Volume:

- Apply in a minimum of 2 gals water per acre by air and 10 gals of water per acre by ground (use sufficient water to obtain thorough coverage without excessive runoff). The highest labeled rate for a specified pest may be necessary when aerial applications are made.

#### Soil Applications:

- In-Furrow Spray at Planting
- Apply as a narrow band spray into the furrow at the seeding depth.
- SHENZI 400SC Insecticide insect control must be applied in a manner that ensures the product is in the root zone. SHENZI 400SC Insecticide insect control is most effective when it is applied so that the roots are at or near the site of application; manage irrigation so that significant quantities of SHENZI 400SC Insecticide insect control remain in the root zone where it is most effective. Unless directed otherwise in the specific crop sections of this label, only one soil application of SHENZI 400SC Insecticide insect control can be made per crop.

**Grasshopper:** Apply foliar when grasshopper populations reach local established thresholds to prevent crop damage. Correct timing of spray applications to nymphal stages and thorough coverage is critical to achieve control. Performance is improved with the addition of a Methylated Seed Oil (MSO) adjuvant at 1 gallon per 100 gallons of spray volume (1% w/v) when eggs have hatched, and the majority of the grasshopper population is 2nd - 3rd instar nymphs. Once grasshoppers contact and/or ingest SHENZI 400SC Insecticide there will be rapid feeding cessation; insect mortality may not occur until a week later or longer.

#### RESTRICTIONS:

- DO NOT make more than 4 applications per acre per calendar year.
- DO NOT apply more than 7.7 fl oz of SHENZI 400SC Insecticide or 0.2 lb ai chlorantraniliprole containing products per acre per calendar year.
- DO NOT make more than two sequential applications of SHENZI 400SC Insecticide before rotating to another registered insecticide having a different mode-of-action.

Crop	Application Method	Insect	SHENZI 400SC Insecticide Rate Per Acre in Fl Oz (LB AI)	Re-Treatment Interval in Days (RTI)	Pre-Harvest Interval in Days (PHI)	Re-Entry Interval in Hours (REI)
Cotton	Foliar Overhead Chemigation	Beet armyworm, Cotton bollworm**, Cutworms, Fall armyworm, Saltmarsh caterpillar, Southern armyworm, Tobacco budworm**, Western yellowstriped armyworm	1.7 - 3.8 (0.044 - 0.098)	5	21	4
		Cabbage looper, Soybean looper*	2.5 - 3.8 (0.065 - 0.098)			
		Grasshoppers	1.0 - 2.5 (0.026 - 0.065)			

#### APPLICATION INSTRUCTIONS:

- Apply higher rates within the listed range for heavier infestations, larger/denser crops, or extreme environmental conditions such as rainy weather and high temperatures.
- SHENZI 400SC Insecticide can be applied by overhead sprinkler chemigation systems. See **CHEMIGATION USING OVERHEAD SPRINKLER SYSTEMS** section for instructions on overhead sprinkler chemigation.

#### Spray Volume:

- Apply in a minimum of 2 gals water per acre by air and 10 gals of water per acre by ground (use sufficient water to obtain thorough coverage without excessive runoff). The highest labeled rate for a specified pest may be necessary when aerial applications are made.

\* Suppression only.

\*\* **For Heliothine control** (cotton bollworm and/or tobacco budworm in conventional non-transgenic/non-Bt cotton) make the first application at rates of 0.065 - 0.091 lb ai per acre (2.5 - 3.5 fl oz product). Subsequent applications can be at rates of 0.044 - 0.091 lb ai acre (1.7 - 3.5 fl oz product) depending on pest pressure. For control of cotton bollworm (*Helicoverpa zea*) in Bt transgenic cotton varieties, the initial application, and subsequent applications, of SHENZI 400SC Insecticide can be applied at 1.7 - 2.5 fluid ounces per acre as a foliar spray. Apply when cotton bollworm populations reach local established treatment thresholds to prevent crop damage.

**Grasshopper:** Apply foliar when grasshopper populations reach local established thresholds to prevent crop damage. Correct timing of spray applications to nymphal stages and thorough coverage is critical to achieve control. Performance is improved with the addition of a Methylated Seed Oil (MSO) adjuvant at 1 gallon per 100 gallons of spray volume (1% v/v) when eggs have hatched, and the majority of the grasshopper population is 2nd - 3rd instar nymphs. Once grasshoppers contact and/or ingest SHENZI 400SC Insecticide there will be rapid feeding cessation; insect mortality may not occur until a week later or longer.

#### RESTRICTIONS:

- DO NOT make more than 4 applications per acre per calendar year.
- DO NOT apply more than 7.7 fl oz of SHENZI 400SC Insecticide or 0.2 lb ai chlorantraniliprole containing products per acre per calendar year.

Crop	Application Method	Insect	SHENZI 400SC Insecticide Rate Per Acre in Fl Oz (LB AI)	Re-Treatment Interval in Days (RTI)	Pre-Harvest Interval in Days (PHI)	Re-Entry Interval in Hours (REI)
Cranberry	Foliar Overhead Chemigation	Blackheaded fireworm*, Cherry fruitworm, Cranberry fruitworm, Green spanworm, Omnivorous leafroller, Raspberry crown borer, Sparganothis fruitworm	2.5 - 3.8 (0.065 - 0.098)	7	1	4

**APPLICATION INSTRUCTIONS:**

**Spray Volume:**

- Thorough coverage is essential. Select a spray volume appropriate for the size of trees or plants and density of foliage.
- DO NOT apply less than 20 gals water per acre by ground.
- DO NOT apply less than 5 gals water per acre by aerial application. The highest labeled rate for a specified pest may be necessary when aerial applications are made.

\* **Blackheaded Fireworm:** Use high application rate for moderate to heavy infestations. SHENZI 400SC Insecticide may be applied to cranberry by overhead chemigation. For specific guidance see label section titled **APPLICATION BY CHEMIGATION - CRANBERRY**.

**RESTRICTIONS:**

- DO NOT make more than 3 applications per acre per calendar year.
- DO NOT apply more than 7.7 fl oz of SHENZI 400SC Insecticide or 0.2 lb ai chlorantraniliprole containing products per acre per calendar year.

Crop	Application Method	Insect	SHENZI 400SC Insecticide Rate Per Acre in Fl Oz (LB AI)	Re-Treatment Interval in Days (RTI)	Pre-Harvest Interval in Days (PHI)	Re-Entry Interval in Hours (REI)
<b>Cucurbit Vegetables, (EPA Crop Group 9)</b> <b>Including:</b> Chayote (fruit), Chinese wax-gourd (Chinese preserving melon), Citron melon, Cucumber, Gherkin, Edible gourd (includes hyotan, cucuzza, hechima, Chinese okra), Momordica spp. (includes balsam apple, balsam pear, bitter melon, Chinese cucumber), Muskmelon (includes true cantaloupe, cantaloupe, casaba, crenshaw melon, golden pershaw melon, honeydew melon, honey balls, mango melon, Persian melon, pineapple melon, Santa Claus melon, and snake melon), Pumpkin, Summer squash (includes crookneck squash, scallop squash, straightneck squash, vegetable marrow, zucchini), Winter squash (includes butternut squash, calabaza, hubbard squash, acorn squash, spaghetti squash), Watermelon	<b>SOIL AT PLANTING</b> (an in-furrow spray, transplant water treatment, hill drench, surface band, soil shank injection)	Beet armyworm, Cabbage looper	1.7 - 3.8 (0.044 - 0.098) <b>See Rate Conversion Chart</b> for rate per 1000 linear ft.	10	1	4
		Leafminers (larvae)*, Silverleaf whiteflies (nymphs)**	2.5 - 3.8 (0.065 - 0.098)			
	<b>DRIP CHEMIGATION</b> Make application(s) within the first half of the crop growing cycle, typically up to peak bloom crop stage.	Melon worm	1.0 - 1.7 (0.026 - 0.044)			
		Beet armyworm, Cabbage looper, Pickleworm	1.7 - 3.8 (0.044 - 0.098)			
		Leafminers (larvae)*, Silverleaf whiteflies (nymphs)**	2.5 - 3.8 (0.065 - 0.098)			
	<b>Foliar</b>	Melon worm	1.0 - 1.7 (0.026 - 0.044)	5		
		Beet armyworm, Cabbage looper, Hawaiian beet webworm, Pickleworm, Western yellowstriped armyworm	1.7 - 3.8 (0.044 - 0.098)			
		Leafminers (larvae)*, Silverleaf whiteflies (nymphs)**	2.5 - 3.8 (0.065 - 0.098)			

#### APPLICATION INSTRUCTIONS:

- Apply higher rates within the listed range for heavier infestations, larger/denser crops, or extreme environmental conditions such as rainy weather and high temperatures.

#### Spray Volume:

- Apply in a minimum of 5 gals water per acre by air and 10 gals of water per acre by ground (use sufficient water to obtain thorough coverage without excessive runoff). The highest labeled rate for a specified pest may be necessary when aerial applications are made.

**SOIL APPLICATIONS** (an in-furrow spray at planting, transplant water treatment, hill drench at planting, surface band at planting, soil shank injection at planting, or drip chemigation):

- SHENZI 400SC Insecticide must be applied uniformly in the root zone or poor performance will result.
- Surface band application requires sufficient overhead watering following application to ensure the treatment is moved into the root zone.
- For drip chemigation applications made in the second half of the crop growing cycle: translocation of SHENZI 400SC Insecticide control into aerial portions of the plant may take up to 7 - 10 days.
- Refer to the **SOIL APPLICATION** section of this label for additional guidance; also see the **Rate Conversion Chart** for application rate per 1000 linear feet.

\* Control of *Liriomyza* species except suppression only for *L. huidabrensis* and *L. langei*.

\*\* Suppression only. Use in conjunction with an effective adult whitefly control program.

#### RESTRICTIONS:

- DO NOT make more than 4 applications per acre per crop or 12 applications per acre per calendar year.
- DO NOT apply more than 7.7 fl oz of SHENZI 400SC Insecticide or 0.2 lb ai chlorantraniliprole containing products per acre per crop.
- DO NOT apply more than 3.8 fl oz (0.098 lb ai per acre) of SHENZI 400SC Insecticide to the soil at planting.
- DO NOT apply more than 5.12 fl oz (0.132 lb ai per acre) of SHENZI 400SC Insecticide per crop by any combination of at plant soil application and drip chemigation.
- DO NOT make more than 2 drip chemigation applications of SHENZI 400SC Insecticide per crop.
- DO NOT make more than one drip chemigation application per crop if an at plant application of SHENZI 400SC Insecticide was made.
- DO NOT apply more than 23.17 fl oz of SHENZI 400SC Insecticide or 0.6 lb ai chlorantraniliprole containing products per acre per calendar year.
- In NY DO NOT apply more than 7.7 fl oz of SHENZI 400SC Insecticide or 0.2 lb ai chlorantraniliprole containing products per acre per calendar year.

Crop	Application Method	Insect	SHENZI 400SC Insecticide Rate Per Acre in Fl Oz (LB AI)	Re-Treatment Interval in Days (RTI)	Pre-Harvest Interval in Days (PHI)	Re-Entry Interval in Hours (REI)
<b>Foliage of Legume Vegetables (EPA Crop Group 7) except soybean including: of any legume vegetable included in the legume vegetables that will be used as animal feed</b>	SOIL AT PLANTING In-furrow spray	Beet armyworm, Corn earworm, European corn borer, Fall armyworm	2.5 - 3.8 (0.065 - 0.098) See <b>Rate Conversion Chart</b> in the <b>CHEMIGATION</b> section of this label for rate per 1000 linear ft.	3	1	4
	Foliar Overhead Chemigation	Beet armyworm, Cabbage looper, Corn earworm, European corn borer, Fall armyworm, Soybean looper, Western bean cutworm	1.7 - 3.8 (0.044 - 0.098)			
		Leafminers (larvae)*, Silverleaf whiteflies (nymphs)**	3.8 (0.098)			
		Grasshoppers	1.0 - 2.5 (0.026 - 0.065)			

#### APPLICATION INSTRUCTIONS:

- Apply higher rates within the listed range for heavier infestations, larger/denser crops, or extreme environmental conditions such as rainy weather and high temperatures.
- SHENZI 400SC Insecticide can be applied by overhead sprinkler chemigation systems. See **CHEMIGATION USING OVERHEAD SPRINKLER SYSTEMS** section for instructions on overhead sprinkler chemigation.

#### Spray Volume:

- Apply in a minimum of 5 gals water per acre by air and 10 gals of water per acre by ground (use sufficient water to obtain thorough coverage without excessive runoff). The highest labeled rate for a specified pest may be necessary when aerial applications are made.

#### Soil Applications:

- In-Furrow Spray at Planting
- Apply as a narrow band spray into the furrow at the seeding depth.
- SHENZI 400SC Insecticide insect control must be applied in a manner that ensures the product is in the root zone. SHENZI 400SC Insecticide insect control is most effective when it is applied so that the roots are at or near the site of application; manage irrigation so that significant quantities of SHENZI 400SC Insecticide insect control remain in the root zone where it is most effective. Unless directed otherwise in the specific crop sections of this label, only one soil application of SHENZI 400SC Insecticide insect control can be made per crop.

\* Control of *Liriomyza* species except suppression only for *L. huidabrensis* and *L. langei*.

\*\* Suppression only. Use in conjunction with an effective adult whitefly control program.

**Grasshopper:** Apply foliar when grasshopper populations reach local established thresholds to prevent crop damage. Correct timing of spray applications to nymphal stages and thorough coverage is critical to achieve control. Performance is improved with the addition of a Methylated Seed Oil (MSO) adjuvant at 1 gallon per 100 gallons of spray volume (1% v/v) when eggs have hatched, and the majority of the grasshopper population is 2nd - 3rd instar nymphs. Once grasshoppers contact and/or ingest SHENZI 400SC Insecticide there will be rapid feeding cessation; insect mortality may not occur until a week later or longer.

#### RESTRICTIONS:

- DO NOT make more than 4 applications per acre per crop or 12 applications per acre per calendar year.
- DO NOT apply more than 7.7 fl oz of SHENZI 400SC Insecticide or 0.2 lb ai chlorantraniliprole containing products per acre per crop.
- DO NOT apply more than 23.1 fl oz of SHENZI 400SC Insecticide or 0.6 lb ai chlorantraniliprole containing products per acre per calendar year.
- In NY DO NOT apply more than 7.7 fl oz of SHENZI 400SC Insecticide or 0.2 lb ai chlorantraniliprole containing products per acre per calendar year.
- DO NOT make more than two sequential applications of SHENZI 400SC Insecticide before rotating to another registered insecticide having a different mode-of-action.



Crop	Application Method	Insect	SHENZI 400SC Insecticide Rate Per Acre in Fl Oz (LB AI)	Re-Treatment Interval in Days (RTI)	Pre-Harvest Interval in Days (PHI)	Re-Entry Interval in Hours (REI)
Forage, Fodder, and Straw of Cereal Grains, (EPA Crop Group 16) except Corn and Rice. Including Forage, fodder, and straw of all commodities included in the cereal grains group, except corn and rice. Includes Sorghum spp. [sorghum, forage; sorghum, stover; sudangrass, and hybrids of these grown for forage and/or stover].	Foliar Overhead Chemigation	Beet armyworm, Corn earworm, European corn borer, Fall armyworm, Sorghum webworm, Southwestern corn borer, Sugarcane borer, True armyworm, Wheathead armyworm	1.7 - 3.8 (0.044 - 0.098)	7	1	4
		Grasshoppers	1.0 - 2.5 (0.026 - 0.065)			

#### APPLICATION INSTRUCTIONS:

- Apply higher rates within the listed range for heavier infestations, larger/denser crops, or extreme environmental conditions such as rainy weather and high temperatures.
- SHENZI 400SC Insecticide can be applied by overhead sprinkler chemigation systems. See **CHEMIGATION USING OVERHEAD SPRINKLER SYSTEMS** section for instructions on overhead sprinkler chemigation.

#### Spray Volume:

- Apply in a minimum of 2 gals water per acre by air and 10 gals of water per acre by ground (use sufficient water to obtain thorough coverage without excessive runoff). The highest labeled rate for a specified pest may be necessary when aerial applications are made.

**Grasshopper:** Apply foliar when grasshopper populations reach local established thresholds to prevent crop damage. Correct timing of spray applications to nymphal stages and thorough coverage is critical to achieve control. Performance is improved with the addition of a Methylated Seed Oil (MSO) adjuvant at 1 gallon per 100 gallons of spray volume (1% v/v) when eggs have hatched, and the majority of the grasshopper population is 2nd - 3rd instar nymphs. Once grasshoppers contact and/or ingest SHENZI 400SC Insecticide there will be rapid feeding cessation; insect mortality may not occur until a week later or longer.

#### RESTRICTIONS:

- DO NOT make than 4 applications per acre per calendar year.
- DO NOT apply more than 7.7 fl oz of SHENZI 400SC Insecticide or 0.2 lb ai chlorantraniliprole containing products per acre per calendar year.
- DO NOT make more than two sequential applications of SHENZI 400SC Insecticide before rotating to another registered insecticide having a different mode-of-action.

Crop	Application Method	Insect	SHENZI 400SC Insecticide Rate Per Acre in Fl Oz (LB AI)	Re-Treatment Interval in Days (RTI)	Pre-Harvest Interval in Days (PHI)	Re-Entry Interval in Hours (REI)
Fruiting Vegetables Including: Eggplant, Groundcherry (Physalis spp.), okra, Pepino, Pepper, (including bell pepper, chili pepper, cooking pepper, pimento, sweet pepper), Tomatillo, Tomato	SOIL AT PLANTING (an in-furrow spray, transplant water treatment, hill drench, surface band, soil shank injection)	Beet armyworm, Fall armyworm, Loopers, Southern armyworm, Tomato fruitworm, Tomato pinworm, Western yellowstriped armyworm	1.7 - 3.8 (0.044 - 0.098) See <b>Rate Conversion Chart</b> for rate per 1000 linear ft.	10	1	4
		Leafminers (larvae)*, Silverleaf whiteflies (nymphs)**	2.5 - 3.8 (0.065 - 0.098)			
	DRIP CHEMIGATION Make application(s) within the first half of the crop growing cycle, typically up to peak bloom crop stage.	Beet armyworm, Colorado potato beetle, European corn borer, Fall armyworm, Garden webworm, Hornworms, Loopers, Southern armyworm, Tomato fruitworm, Tomato pinworm, Western yellowstriped armyworm	1.7 - 3.8 (0.044 - 0.098)			
		Leafminers (larvae)*, Silverleaf whiteflies (nymphs)**	2.5 - 3.8 (0.065 - 0.098)	5		
	Foliar	Hornworms	1.0 - 2.5 (0.026 - 0.065)			
		Beet armyworm, Colorado potato beetle, European corn borer, Fall armyworm, Garden webworm, Loopers, Southern armyworm, Tomato fruitworm, Tomato pinworm, Western yellowstriped armyworm	1.7 - 3.8 (0.044 - 0.098)			
		Leafminers (larvae)*, Silverleaf whiteflies (nymphs)**	2.5 - 3.8 (0.065 - 0.098)			

#### APPLICATION INSTRUCTIONS:

- Apply higher rates within the listed range for heavier infestations, larger/denser crops, or extreme environmental conditions such as rainy weather and high temperatures.

#### Spray Volume:

- Apply in a minimum of 5 gals water per acre by air and 10 gals of water per acre by ground (use sufficient water to obtain thorough coverage without excessive runoff). The highest labeled rate for a specified pest may be necessary when aerial applications are made.

**SOIL APPLICATIONS** (an in-furrow spray at planting, transplant water treatment, hill drench at planting, surface band at planting, soil shank injection at planting, or drip chemigation):

- SHENZI 400SC Insecticide must be applied uniformly in the root zone or poor performance will result. Surface band application requires sufficient overhead watering following application to ensure the treatment is moved into the root zone.
- Refer to the **SOIL APPLICATION** section of this label for additional guidance; also see the **Rate Conversion Chart** for application rate per 1000 linear feet. For drip chemigation applications made in the second half of the crop growing cycle: translocation of SHENZI 400SC Insecticide insect control into aerial portions of the plant may take up to 7 - 10 days.

\*Control of *Liriomyza* species except suppression only for *L. huidabrensis* and *L. langei*.

\*\*Suppression only. Use in conjunction with an effective adult whitefly control program.

#### RESTRICTIONS:

- DO NOT make more than 4 applications per acre per crop or 12 applications per acre per calendar year.
- DO NOT apply more than 7.7 fl oz of SHENZI 400SC Insecticide or 0.2 lb ai chlorantraniliprole containing products per acre per crop.
- DO NOT apply more than 3.8 fl oz (0.098 lb ai per acre) of SHENZI 400SC Insecticide to the soil at planting.
- DO NOT apply more than 5.1 fl oz (0.132 lb ai per acre) of SHENZI 400SC Insecticide per crop by any combination of at plant soil application and drip chemigation.
- DO NOT make more than 2 drip chemigation applications of SHENZI 400SC Insecticide per crop.
- DO NOT make more than one drip chemigation application per crop if an at plant application of SHENZI 400SC Insecticide was made.
- DO NOT apply more than 23.1 fl oz of SHENZI 400SC Insecticide or 0.6 lb ai chlorantraniliprole containing products per acre per calendar year.
- In NY DO NOT apply more than 7.7 fl oz of SHENZI 400SC Insecticide or 0.2 lb ai chlorantraniliprole containing products per acre per calendar year.

Crop	Application Method	Insect	SHENZI 400SC Insecticide Rate Per Acre in Fl Oz (LB AI)	Re-Treatment Interval in Days (RTI)	Pre-Harvest Interval in Days (PHI)	Re-Entry Interval in Hours (REI)
Grass Forage, Fodder and Hay: (EPA Crop Group 17) Any grass, Gramineae family (either green or cured) except sugarcane and those included in the cereal grains group, that will be fed to or grazed by livestock, all pasture and range grasses and grasses grown for hay or silage	Foliar Overhead Chemigation	Beet armyworm, Corn earworm, Fall armyworm, Sod webworm, Southern armyworm, True armyworm	1.7 - 3.8 (0.044 - 0.098)	7	0	4
		Grasshoppers	1.0 - 2.5 (0.026 - 0.065)			
		Billbug (grubs)*, Cutworms, European crane fly (larvae)*	2.5 - 3.8 (0.065 - 0.098)			

#### APPLICATION INSTRUCTIONS:

- Apply higher rates within the listed range for heavier infestations, larger/denser crops, or extreme environmental conditions such as rainy weather and high temperatures.
- SHENZI 400SC Insecticide can be applied by overhead sprinkler chemigation systems. See **CHEMIGATION USING OVERHEAD SPRINKLER SYSTEMS** section for instructions on overhead sprinkler chemigation.

#### Spray Volume:

- Apply in a minimum of 2 gals water per acre by air and 10 gals of water per acre by ground (use sufficient water to obtain thorough coverage without excessive runoff). The highest labeled rate for a specified pest may be necessary when aerial applications are made.

\*Suppression only. Grass grown for seed only.

For control of Armyworms, Cutworms, and Sod Webworms, apply at first sign of economic crop damage. Apply SHENZI 400SC Insecticide as a thorough coverage foliar spray using properly calibrated ground equipment in a minimum of 10 gallons per acre, or via overhead chemigation in 0.10 to 0.20 acre inch of water. For foliar sprays, increase the spray volume to compensate for the amount of foliage present. For maximum spray penetration into the root crown area, the use of a silicone surfactant may be useful. For best results with foliar spray applications, delay the next irrigation for at least 24 hours. For suppression of European Crane Fly larvae apply between September and early November.

For suppression of Billbug grubs, apply when overwintered adult Billbugs are first observed. This will usually occur in late April or early May. It is important to move the SHENZI 400SC Insecticide into the grass root zone. This is best achieved by applying via overhead chemigation in 0.25 to 0.50 acre inch of water, or by immediately following a foliar spray application with 0.25 to 0.50 acre inch of water.

**Grasshopper:** Apply foliar when grasshopper populations reach local established thresholds to prevent crop damage. Correct timing of spray applications to nymphal stages and thorough coverage is critical to achieve control. Performance is improved with the addition of a Methylated Seed Oil (MSO) adjuvant at 1 gallon per 100 gallons of spray volume (1% v/v) when eggs have hatched, and the majority of the grasshopper population is 2nd - 3rd instar nymphs. Once grasshoppers contact and/or ingest SHENZI 400SC Insecticide there will be rapid feeding cessation; insect mortality may not occur until a week later or longer.

#### RESTRICTIONS:

- DO NOT make than 4 applications per acre per calendar year.
- DO NOT apply more than 7.7 fl oz of SHENZI 400SC Insecticide or 0.2 lb ai chlorantraniliprole containing products per acre per calendar year.
- DO NOT make more than two sequential applications of SHENZI 400SC Insecticide before rotating to another registered insecticide having a different mode-of-action.

Crop	Application Method	Insect	SHENZI 400SC Insecticide Rate Per Acre in Fl Oz (LB AI)	Re-Treatment Interval in Days (RTI)	Pre-Harvest Interval in Days (PHI)	Re-Entry Interval in Hours (REI)
USDA - APHIS Rangeland Grasshopper and Mormon Cricket Suppression Program In/on: Grass Forage, Fodder and Hay: (Crop Group 17) Any grass, Gramineae family (either green or cured) except sugarcane and those included in the cereal grains group, that will be fed to or grazed by livestock, all pasture and range grasses and grasses grown for hay or silage	FOLIAR - ULV APPLICATION (Ground or Air Application)	Grasshoppers, Mormon crickets	1.0 (0.026)	0	0	4
<b>APPLICATION INSTRUCTIONS:</b> <ul style="list-style-type: none"> <li>• Use of oil-based adjuvants (methylated seed oils, petroleum oils, crop oil concentrates etc.) at 1 gallon per 100 gallons of spray volume (1% v/v) improves performance. Apply when pest populations reach local established thresholds to prevent crop damage. Applications should target the most susceptible life stages when possible. Correct timing of spray applications to nymphal stages and thorough coverage is critical to achieve optimum control. Applications should be made when eggs have hatched and the majority of the pest population is at least 2nd - 3rd instar nymphs. Once pests contact and/or ingest.</li> <li>• SHENZI 400SC Insecticide insect control there will be rapid feeding cessation; insect mortality may not occur until a week later or longer.</li> </ul> <b>Spray Volume:</b> <ul style="list-style-type: none"> <li>• Apply in a minimum of 2 gals water per acre by air and 10 gals of water per acre by ground (use sufficient water to obtain thorough coverage without excessive runoff). The highest labeled rate for a specified pest may be necessary when aerial applications are made.</li> </ul> <b>RESTRICTIONS:</b> <ul style="list-style-type: none"> <li>• DO NOT make than 1 applications per acre per calendar year for grasshopper and/or Mormon cricket suppression.</li> <li>• DO NOT apply more than 1.0 fl oz of SHENZI 400SC Insecticide or 0.026 lb ai chlorantraniliprole containing products per acre per calendar year. (i.e., SHENZI 400SC Insecticide plus carrier(s), adjuvant(s), diluent(s), etc.) per acre whether applied by air or ground application equipment).</li> </ul>						

Crop	Application Method	Insect	SHENZI 400SC Insecticide Rate Per Acre in Fl Oz (LB AI)	Re-Treatment Interval in Days (RTI)	Pre-Harvest Interval in Days (PHI)	Re-Entry Interval in Hours (REI)
<b>Head and Stem Brassica and Leafy Brassica Greens (EPA Crop Subgroups 5A and 5B) including: Broccoli, Broccoli Chinese (gai lon), Broccoli raab (rapini), Brussels sprouts, Cabbage, Chinese cabbage (bok choy), Chinese cabbage (napa), Cabbage, Chinese mustard (gai choy), Cauliflower, Cavalo broccoli, Collards, Kale, Kohlrabi, Mizuna, Mustard greens, Mustard spinach, Rape greens</b>	SOIL AT PLANTING (an in-furrow spray, transplant water treatment, hill drench, surface band, soil shank injection)	Beet armyworm, Diamondback moth*, Cabbage looper, Cabbage maggot**, Corn earworm, Cross-striped cabbageworm, Hawaiian beet webworm, Imported cabbageworm, Western yellowstriped armyworm	1.7 - 3.8 (0.044 - 0.098) See <b>Rate Conversion Chart</b> for rate per 1000 linear ft.		3	4
	Drip Chemigation	Beet armyworm, Diamondback moth*, Cabbage looper, Corn earworm, Cross-striped cabbageworm, Hawaiian beet webworm, Imported cabbageworm, Western yellowstriped armyworm	1.7 - 3.8 (0.044 - 0.098)	10		
	Foliar	Silverleaf whiteflies (nymphs)**	2.5 - 3.8 (0.065 - 0.098)	3		
		Beet armyworm, Cabbage looper, Corn earworm, Cross-striped cabbageworm, Diamondback moth*, Hawaiian beet webworm, Imported cabbageworm, Western yellowstriped armyworm	1.7 - 3.8 (0.044 - 0.098)			
		Grasshoppers	1.7 - 2.5 (0.044 - 0.065)			

#### APPLICATION INSTRUCTIONS:

- Apply higher rates within the listed range for heavier infestations, larger/denser crops, or extreme environmental conditions such as rainy weather and high temperatures.

#### Spray Volume:

- Apply in a minimum of 5 gals water per acre by air and 10 gals of water per acre by ground (use sufficient water to obtain thorough coverage without excessive runoff). The highest labeled rate for a specified pest may be necessary when aerial applications are made.

**SOIL APPLICATIONS** (an in-furrow spray at planting, transplant water treatment, hill drench at planting, surface band at planting, soil shank injection at planting, or drip chemigation): SHENZI 400SC Insecticide must be applied uniformly in the root zone or poor performance will result. Surface band application requires sufficient overhead watering following application to ensure the treatment is moved into the root zone. For drip chemigation applications made in the second half of the crop growing cycle: translocation of SHENZI 400SC Insecticide control into aerial portions of the plant may take up to 7 - 10 days. Refer to the **SOIL APPLICATION** section of this label for additional guidance; also see the **Rate Conversion Chart** for application rate per 1000 linear feet.

**Grasshopper:** Apply foliar when grasshopper populations reach local established thresholds to prevent crop damage. Correct timing of spray applications to nymphal stages and thorough coverage is critical to achieve control. Performance is improved with the addition of a Methylated Seed Oil (MSO) adjuvant at 1 gallon per 100 gallons of spray volume (1% v/v) when eggs have hatched, and the majority of the grasshopper population is 2nd - 3rd instar nymphs. Once grasshoppers contact and/or ingest SHENZI 400SC Insecticide there will be rapid feeding cessation; insect mortality may not occur until a week later or longer.

#### \* Diamondback Moth Resistance Management:

- Do not apply SHENZI 400SC Insecticide more than twice to any generation of diamondback moth or within any 30 day period. After the second application of SHENZI 400SC Insecticide for diamondback moth, rotate to another effective insecticide with a different mode of action (a product with a different IRAC group number). Application(s) to the next generation of diamondback moth must be with an effective product with a different mode of action.
- DO NOT apply less than 1.7 fl oz per application per acre for diamondback moth control.
- DO NOT make more than 6 total applications per calendar year for control of diamondback moth at the same farm location.

\*\*Suppression only. Use in conjunction with an effective adult whitefly control program.

#### RESTRICTIONS:

- DO NOT make more than 4 applications per acre per crop or 16 applications per acre per calendar year.
- DO NOT apply more than 7.7 fl oz of SHENZI 400SC Insecticide or 0.2 lb ai chlorantraniliprole containing products per acre per crop.
- DO NOT apply more than 30.8 fl oz of SHENZI 400SC Insecticide or 0.8 lb ai chlorantraniliprole containing products per acre per calendar year.
- In NY DO NOT apply more than 7.7 fl oz of SHENZI 400SC Insecticide or 0.2 lb ai chlorantraniliprole containing products per acre per calendar year.
- Do not make more than two sequential applications of this product before rotating to another registered insecticide having a different mode-of-action.

Crop	Application Method	Insect	SHENZI 400SC Insecticide Rate Per Acre in Fl Oz (LB AI)	Re-Treatment Interval in Days (RTI)	Pre-Harvest Interval in Days (PHI)	Re-Entry Interval in Hours (REI)
<b>Herb subgroup (EPA Crop Subgroup 19A)</b> Including Angelica; balm; basil; borage; burnet; chamomile; catnip; chervil (dried); chive, Chinese; clary; coriander (leaf); costmary; culantro (leaf); curry (leaf); dillweed; horehound; hyssop; lavender; lemongrass; lovage (leaf); marigold; marjoram; nasturtium; parsley (dried); pennyroyal; rosemary; rue; sage; savory, summer and winter; sweet bay; tansy; tarragon; thyme; wintergreen; woodruff; and wormwood	Foliar	Beet armyworm, Cabbage looper, Corn earworm, Fall armyworm, Southern armyworm	1.7 - 2.5 (0.044 - 0.065)	3	1	4

#### APPLICATION INSTRUCTIONS:

- Apply higher rates within the listed range for heavier infestations, larger/denser crops, or extreme environmental conditions such as rainy weather and high temperatures.

#### Spray Volume:

- Apply in a minimum of 5 gals water per acre by air and 10 gals of water per acre by ground (use sufficient water to obtain thorough coverage without excessive runoff). The highest labeled rate for a specified pest may be necessary when aerial applications are made.

**PLANT TOLERANCE PHYTOTOXICITY:** SHENZI 400SC Insecticide has been tested on numerous crops and cultivars with no observable phytotoxicity at label rates. However, neither the manufacturer nor the seller has determined whether or not SHENZI 400SC Insecticide can be used safely on all herbs and spices for which it is registered for use. Since all herbs and spices and their varieties and cultivars have not been tested for phytotoxicity it is recommended that a small number of plants be sprayed initially to determine if there is any phytotoxicity prior to large scale applications to herbs and spices. The user assumes all risks arising from application of SHENZI 400SC Insecticide in a manner that is inconsistent with its labeling.

#### RESTRICTIONS:

- DO NOT make more than 4 applications per acre per crop or 16 applications per acre per calendar year.
- DO NOT apply more than 7.7 fl oz of SHENZI 400SC Insecticide or 0.2 lb ai chlorantraniliprole containing products per acre per crop.
- DO NOT apply more than 30.8 fl oz of SHENZI 400SC Insecticide or 0.8 lb ai chlorantraniliprole containing products per acre per calendar year.
- In NY DO NOT apply more than 7.7 fl oz of SHENZI 400SC Insecticide or 0.2 lb ai chlorantraniliprole containing products per acre per calendar year.

Crop	Application Method	Insect	SHENZI 400SC Insecticide Rate Per Acre in Fl Oz (LB AI)	Re-Treatment Interval in Days (RTI)	Pre-Harvest Interval in Days (PHI)	Re-Entry Interval in Hours (REI)
<b>Hops (except California)</b>	Foliar	Western yellowstriped armyworm	1.7 - 3.8 (0.044 - 0.098)	7	0	4

#### APPLICATION INSTRUCTIONS:

- Apply higher rates within the listed range for heavier infestations, larger/denser crops, or extreme environmental conditions such as rainy weather and high temperatures.

#### Spray Volume:

- Apply in a minimum of 5 gals water per acre by air and 10 gals of water per acre by ground (use sufficient water to obtain thorough coverage without excessive runoff). The highest labeled rate for a specified pest may be necessary when aerial applications are made.

#### RESTRICTIONS:

- DO NOT make more than 4 applications per acre per calendar year.
- DO NOT apply more than 7.7 fl oz of SHENZI 400SC Insecticide or 0.2 lb ai chlorantraniliprole containing products per acre per calendar year.

Crop	Application Method	Insect	SHENZI 400SC Insecticide Rate Per Acre in Fl Oz (LB AI)	Re-Treatment Interval in Days (RTI)	Pre-Harvest Interval in Days (PHI)	Re-Entry Interval in Hours (REI)
Leafy Vegetables except brassica (EPA Crop Group 4) Including: Amaranth leafy, Arugula (rocket), Cardoon, Celery, Celery (Chinese), Celtuce, Chervil, Chinese spinach, Chrysanthemum (edible leaved), Chrysanthemum, garland, Corn salad, Cress (garden), Cress (upland), Dandelion, leaves, Dock (sorrel), Endive (escarole), Florence fennel, Lettuce (head & leaf), Orach, Parsley, Purslane (garden), (winter), Radicchio (red chicory), Rhubarb, Spinach, Spinach (vine), Spinach (New Zealand), Swiss chard, Tampala	SOIL AT PLANTING (an in-furrow spray, transplant water treatment, hill drench, surface band, soil shank injection)	Beet armyworm, Corn earworm, Cabbage looper, Tobacco budworm	1.7 - 3.8 (0.044 - 0.098)		1	4
		Leafminers (larvae)**, Silverleaf whiteflies (nymphs)***	See <b>Rate Conversion Chart</b> for rate per 1000 linear ft. 2.5 - 3.8 (0.065 - 0.098)			
	Drip Chemigation	Diamondback moth*, Beet armyworm, Corn earworm, Cabbage looper, Hawaiian beet webworm, Tobacco budworm	1.7 - 3.8 (0.044 - 0.098)	10		
		Leafminers (larvae)**, Silverleaf whiteflies (nymphs)***	2.5 - 3.8 (0.065 - 0.098)			
	Foliar	Beet armyworm, Cabbage looper, Corn earworm, Diamondback moth*, Hawaiian beet webworm, Tobacco budworm, Western yellowstriped armyworm	1.7 - 3.8 (0.044 - 0.098)	3		
		Leafminers (larvae)**, Silverleaf whiteflies (nymphs)***	2.5 - 3.8 (0.065 - 0.098)			
		Grasshoppers	1.7 - 2.5 (0.044 - 0.065)			

#### APPLICATION INSTRUCTIONS:

- Apply higher rates within the listed range for heavier infestations, larger/denser crops or extreme environmental conditions such as rainy weather and high temperatures.

#### Spray Volume:

- Apply in a minimum of 5 gals water per acre by air and 10 gals of water per acre by ground (use sufficient water to obtain thorough coverage without excessive runoff). The highest labeled rate for a specified pest may be necessary when aerial applications are made.

**SOIL APPLICATIONS** (an in-furrow spray at planting, transplant water treatment, hill drench at planting, surface band at planting, soil shank injection at planting, or drip chemigation):

SHENZI 400SC Insecticide must be applied uniformly in the root zone or poor performance will result. Surface band application requires sufficient watering in to ensure the treatment is moved into the root zone.

Refer to the **SOIL APPLICATION** section of this label for additional guidance; also see the **Rate Conversion Chart** for application rate per 1000 linear feet.

For drip chemigation applications made in the second half of the crop growing cycle: translocation of SHENZI 400SC Insecticide into aerial portions of the plant may take up to 7 - 10 days.

#### \*Diamondback Moth Resistance Management:

- DO NOT apply SHENZI 400SC Insecticide more than twice to any generation of diamondback moth or within any 30 day period. After the second application of SHENZI 400SC Insecticide for diamondback moth, rotate to another effective insecticide with a different mode of action. Application(s) to the next generation of diamondback moth must be with an effective product with a different mode of action.
- DO NOT apply less than 1.7 fl oz of SHENZI 400SC Insecticide per application per acre for diamondback moth control.
- DO NOT make more than 6 total applications per acre per calendar year for control of diamondback moth at the same farm location.

\*\* Control of *Liriomyza* spp. except suppression only for *L. huidabrensis* and *L. langei*.

\*\*\* Suppression only. Use in conjunction with an effective adult whitefly control program.

(continued)

**APPLICATION INSTRUCTIONS: (continued)**

**Grasshopper:** Apply foliarly when grasshopper populations reach local established thresholds to prevent crop damage. Correct timing of spray applications to nymphal stages and thorough coverage is critical to achieve control. Performance is improved with the addition of a Methylated Seed Oil (MSO) adjuvant at 1 gallon per 100 gallons of spray volume (1% v/v) when eggs have hatched, and the majority of the grasshopper population is 2nd - 3rd instar nymphs. Once grasshoppers contact and/or ingest SHENZI 400SC Insecticide there will be rapid feeding cessation; insect mortality may not occur until a week later or longer.

**RESTRICTIONS:**

- DO NOT make more than 4 applications per acre per crop or 16 applications per acre per calendar year.
- DO NOT apply more than 7.7 fl oz of SHENZI 400SC Insecticide or 0.2 lb ai chlorantraniliprole containing products per acre per crop.
- DO NOT apply more than 3.8 fl oz (0.098 lb ai per acre) of SHENZI 400SC Insecticide to the soil at planting.
- DO NOT apply more than 5.1 fl oz (0.132 lb ai per acre) of SHENZI 400SC Insecticide per crop by any combination of at plant soil application and drip chemigation.
- DO NOT make more than 2 drip chemigation applications of SHENZI 400SC Insecticide per crop.
- DO NOT make more than one drip chemigation application per crop if an at plant application of SHENZI 400SC Insecticide was made.
- DO NOT apply more than 30.8 fl oz of SHENZI 400SC Insecticide or 0.8 lb ai chlorantraniliprole containing products per acre per calendar year.
- In NY DO NOT apply more than 7.7 fl oz of SHENZI 400SC Insecticide or 0.2 lb ai chlorantraniliprole containing products per acre per calendar year.

Crop	Application Method	Insect	SHENZI 400SC Insecticide Rate Per Acre in Fl Oz (LB AI)	Re-Treatment Interval in Days (RTI)	Pre-Harvest Interval in Days (PHI)	Re-Entry Interval in Hours (REI)
<b>Leaves of Root and Tuber Vegetables (EPA Crop Group 2) (Human Food or Animal Feed) Including: Beet, garden; beet, sugar; burdock, edible; carrot; cassava, bitter and sweet; celeriac; chervil, turnip-rooted; chicory; dasheen (taro); parsnip; radish; radish, oriental (daikon); rutabaga; salsify, black; sweet potato; taniar; turnip; yam, true</b>	Foliar	Beet armyworm, Western yellowstriped armyworm	1.7 - 3.8 (0.044 - 0.098)	3	1	4
		Grasshoppers	1.0 - 2.5 (0.026 - 0.065)			

**APPLICATION INSTRUCTIONS:**

- Apply higher rates within the listed range for heavier infestations, larger/denser crops, or extreme environmental conditions such as rainy weather and high temperatures.

**Spray Volume:**

- Apply in a minimum of 5 gals water per acre by air and 10 gals of water per acre by ground (use sufficient water to obtain thorough coverage without excessive runoff). The highest labeled rate for a specified pest may be necessary when aerial applications are made.

**Grasshopper:** Apply foliar when grasshopper populations reach local established thresholds to prevent crop damage. Correct timing of spray applications to nymphal stages and thorough coverage is critical to achieve control. Performance is improved with the addition of a Methylated Seed Oil (MSO) adjuvant at 1 gallon per 100 gallons of spray volume (1% v/v) when eggs have hatched, and the majority of the grasshopper population is 2nd - 3rd instar nymphs. Once grasshoppers contact and/or ingest SHENZI 400SC Insecticide there will be rapid feeding cessation; insect mortality may not occur until a week later or longer.

**RESTRICTIONS:**

- DO NOT make more than 4 applications per acre per crop or 16 applications per acre per calendar year.
- DO NOT apply more than 7.7 fl oz of SHENZI 400SC Insecticide or 0.2 lb ai chlorantraniliprole containing products per acre per crop.
- DO NOT apply more than 30.8 fl oz of SHENZI 400SC Insecticide or 0.8 lb ai chlorantraniliprole containing products per acre per calendar year.
- In NY DO NOT apply more than 7.7 fl oz of SHENZI 400SC Insecticide or 0.2 lb ai chlorantraniliprole containing products per acre per calendar year.
- DO NOT make more than two sequential applications of SHENZI 400SC Insecticide before rotating to another registered insecticide having a different mode-of-action.



Crop	Application Method	Insect	SHENZI 400SC Insecticide Rate Per Acre in Fl Oz (LB AI)	Re-Treatment Interval in Days (RTI)	Pre-Harvest Interval in Days (PHI)	Re-Entry Interval in Hours (REI)
<b>Legume Vegetables (EPA Crop Group 6)</b> <b>(For soybean see separate soybean crop section below.) (Succulent or Dried, Including Bean (Lupinus) (includes grain lupin, sweet lupin, white lupin, and white sweet lupin); bean (Phaseolus) (includes field bean, kidney bean, lima bean, navy bean, pinto bean, runner bean, snap bean, tepary bean, wax bean); bean (Vigna) (includes adzuki bean, asparagus bean, blackeyed pea, catjang, Chinese longbean, cowpea, crowder pea, moth bean, mung bean, rice bean, southern pea, urd bean, yardlong bean); broad bean (fava); chickpea (garbanzo); guar; jackbean; lablab bean; lentil; pea (Pisum) (includes dwarf pea, edible-podded pea, English pea, field pea, garden pea, green pea, snowpea, sugar snap pea); pigeon pea; swordbean</b>	SOIL AT PLANTING In-furrow spray	Corn earworm, Beet armyworm, European corn borer, Fall armyworm	2.5 - 3.5 (0.065 - 0.098) See <b>Rate Conversion Chart</b> for rate per 1000 linear ft.	3	1	4
	Foliar Overhead Chemigation	Beet armyworm, Cabbage looper, Colorado potato beetles, Corn earworm, European corn borer, Fall armyworm, Soybean looper, Western bean cutworm	1.7 - 3.8 (0.044 - 0.098)			
		Leafminers (larvae)*, Silverleaf whiteflies (nymphs)**	3.8 (0.098)			
		Grasshoppers	1.0 - 2.5 (0.026 - 0.065)			

#### APPLICATION INSTRUCTIONS:

- Apply higher rates within the listed range for heavier infestations, larger/denser crops, or extreme environmental conditions such as rainy weather and high temperatures.
- SHENZI 400SC Insecticide can be applied by overhead sprinkler chemigation systems. See **CHEMIGATION USING OVERHEAD SPRINKLER SYSTEMS** section for instructions on overhead sprinkler chemigation.

#### Spray Volume:

- Apply in a minimum of 5 gals water per acre by air and 10 gals of water per acre by ground (use sufficient water to obtain thorough coverage without excessive runoff). The highest labeled rate for a specified pest may be necessary when aerial applications are made.

#### Soil Applications:

- In-Furrow Spray at Planting
- Apply as a narrow band spray into the furrow at the seeding depth.
- SHENZI 400SC Insecticide insect control must be applied in a manner that ensures the product is in the root zone. SHENZI 400SC Insecticide insect control is most effective when it is applied so that the roots are at or near the site of application; manage irrigation so that significant quantities of SHENZI 400SC Insecticide insect control remain in the root zone where it is most effective. Unless directed otherwise in the specific crop sections of this label, only one soil application of SHENZI 400SC Insecticide insect control can be made per crop.

\* Control of *Liomyza* spp. except suppression only for *L. huidabrensis* and *L. langei*.

\*\* Suppression only. Use in conjunction with an effective adult whitefly control program.

**Grasshopper:** Apply foliar when grasshopper populations reach local established thresholds to prevent crop damage. Correct timing of spray applications to nymphal stages and thorough coverage is critical to achieve control. Performance is improved with the addition of a Methylated Seed Oil (MSO) adjuvant at 1 gallon per 100 gallons of spray volume (1% v/v) when eggs have hatched, and the majority of the grasshopper population is 2nd - 3rd instar nymphs. Once grasshoppers contact and/or ingest SHENZI 400SC Insecticide there will be rapid feeding cessation; insect mortality may not occur until a week later or longer.

#### RESTRICTIONS:

- DO NOT make more than 4 applications per acre per crop or 12 applications per acre per calendar year.
- DO NOT apply more than 7.7 fl oz of SHENZI 400SC Insecticide or 0.2 lb ai chlorantraniliprole containing products per acre per crop.
- DO NOT apply more than 23.1 fl oz of SHENZI 400SC Insecticide or 0.6 lb ai chlorantraniliprole containing products per acre per calendar year.
- In NY DO NOT apply more than 7.7 fl oz of SHENZI 400SC Insecticide or 0.2 lb ai chlorantraniliprole containing products per acre per calendar year.
- DO NOT make more than two sequential applications of SHENZI 400SC Insecticide before rotating to another registered insecticide having a different mode-of-action.

Crop	Application Method	Insect	SHENZI 400SC Insecticide Rate Per Acre in Fl Oz (LB AI)	Re-Treatment Interval in Days (RTI)	Pre-Harvest Interval in Days (PHI)	Re-Entry Interval in Hours (REI)
<b>Mint: Peppermint and Spearmint</b>	Foliar Overhead Chemigation	Armyworms, Cutworms, Loopers, Mint root borer	1.7 - 3.8 (0.044 - 0.098)	14	3	4

**APPLICATION INSTRUCTIONS:**

- Apply higher rates within the listed range for heavier infestations, larger/denser crops or extreme environmental conditions such as rainy weather and high temperatures.
- SHENZI 400SC Insecticide can be applied by overhead sprinkler chemigation systems. See **CHEMIGATION USING OVERHEAD SPRINKLER SYSTEMS** section for instructions on overhead sprinkler chemigation.

**Spray Volume:**

- Apply in a minimum of 2 gals water per acre by air and 10 gals of water per acre by ground (use sufficient water to obtain thorough coverage without excessive runoff). The highest labeled rate for a specified pest may be necessary when aerial applications are made.

In mint growing areas where the mint root borer degree day model is being used and mint is being grown under sprinkler irrigation: apply SHENZI 400SC Insecticide at 2.5 fl oz/acre (0.065 lb ai per acre) as a foliar spray or via overhead sprinkler chemigation. Time the application between 900 and 1250 growing degree days. Foliar sprays must be followed by sprinkler irrigation before swathing. When making a foliar spray, be sure to include an adjuvant to help obtain thorough coverage. Use only adjuvant products that are labeled for agricultural use and follow the directions on the manufacturer's label. Always conduct a premix test for compatibility. Use an adjuvant that does not affect foliage.

**Mint Root Borer:** For applications after the last cutting of mint, apply SHENZI 400SC Insecticide soon after the last cutting of mint, but before the Mint Root Borer form an overwintering hibernaculum. If SHENZI 400SC Insecticide is applied as a broadcast spray, follow application with at least 2 inches water per acre of overhead irrigation. For furrow irrigated mint, apply SHENZI 400SC Insecticide as a broadcast spray soon after harvest. Follow application with two furrow irrigations in order to move SHENZI 400SC Insecticide into the mint root zone before the mint root borer forms a hibernaculum. If SHENZI 400SC Insecticide is applied via overhead chemigation, use a minimum of 2 acre inches of water to move the SHENZI 400SC Insecticide into the mint root zone.

**RESTRICTIONS:**

- DO NOT make more than 4 applications per acre per calendar year.
- DO NOT apply more than 7.7 fl oz of SHENZI 400SC Insecticide or 0.2 lb ai chlorantraniliprole containing products per acre per calendar year. Apply higher rates within the listed range for heavier infestations, larger/denser crops, or extreme environmental conditions such as rainy weather and high temperatures.

Crop	Application Method	Insect	SHENZI 400SC Insecticide Rate Per Acre in Fl Oz (LB AI)	Re-Treatment Interval in Days (RTI)	Pre-Harvest Interval in Days (PHI)	Re-Entry Interval in Hours (REI)
<b>Non-grass animal feeds (EPA Crop Group 18)</b> <b>Including: Alfalfa; bean, velvet; clover (Trifolium, Melilotus); kudzu; lespeדה; lupin; sainfoin; trefoil; vetch; vetch, crown; vetch, milk</b>	Foliar Overhead Chemigation	Alfalfa caterpillar, Alfalfa looper, Beet armyworm, Fall armyworm, Green cloverworm, Western yellowstriped armyworm	1.7 - 3.8 (0.044 - 0.098)	n/a	0	4
		Grasshoppers	1.0 - 2.5 (0.026 - 0.065)			

#### APPLICATION INSTRUCTIONS:

- Apply higher rates within the listed range for heavier infestations, larger/denser crops or extreme environmental conditions such as rainy weather and high temperatures.
- SHENZI 400SC Insecticide can be applied by overhead sprinkler chemigation systems. See **CHEMIGATION USING OVERHEAD SPRINKLER SYSTEMS** section for instructions on overhead sprinkler chemigation.

#### Spray Volume:

- Apply in a minimum of 2 gals water per acre by air and 10 gals of water per acre by ground (use sufficient water to obtain thorough coverage without excessive runoff). The highest labeled rate for a specified pest may be necessary when aerial applications are made.

**Grasshopper:** Apply foliarly when grasshopper populations reach local established thresholds to prevent crop damage. Correct timing of spray applications to nymphal stages and thorough coverage is critical to achieve control. Performance is improved with the addition of a Methylated Seed Oil (MSO) adjuvant at 1 gallon per 100 gallons of spray volume (1% v/v) when eggs have hatched, and the majority of the grasshopper population is 2nd - 3rd instar nymphs. Once grasshoppers contact and/or ingest SHENZI 400SC Insecticide there will be rapid feeding cessation; insect mortality may not occur until a week later or longer.

#### RESTRICTIONS:

- DO NOT make more than 4 applications per acre per calendar year.
- DO NOT apply more than 7.7 fl oz of SHENZI 400SC Insecticide or 0.2 lb ai chlorantraniliprole containing products per acre per calendar year. Apply higher rates within the listed range for heavier infestations, larger/denser crops, or extreme environmental conditions such as rainy weather and high temperatures. Make one application per cutting.
- Do not make more than two sequential applications of SHENZI 400SC Insecticide before rotating to another registered insecticide having a different mode-of-action.

Crop	Application Method	Insect	SHENZI 400SC Insecticide Rate Per Acre in Fl Oz (LB AI)	Re-Treatment Interval in Days (RTI)	Pre-Harvest Interval in Days (PHI)	Re-Entry Interval in Hours (REI)
Oilseed Group: (EPA Crop Group 20) except milkweed including: Borage; calendula; canola; castor oil plant; Chinese tallowtree; cottonseed; crambe; cuphea; euphorbia; evening primrose; flax seed; gold of pleasure; hare's ear mustard; jojoba; lesquerella; lunaria; meadowfoam; mustard seed; niger seed; oil radish; poppy seed; rapeseed; rose hip; safflower; sesame; stokes aster; sunflower; sweet rocket; tallowwood; tea oil plant; vernonia; cultivars, varieties, and/or hybrids of these	Foliar Overhead Chemigation	Banded sunflower moth, Diamondback moth, Sunflower moth, Sesame leafroller	1.7 - 3.8 (0.044 - 0.098)	5	1	4
		Grasshoppers	1.0 - 2.5 (0.026 - 0.065)			

**APPLICATION INSTRUCTIONS:**

- Apply higher rates within the listed range for heavier infestations, larger/denser crops, or extreme environmental conditions such as rainy weather and high temperatures.
- SHENZI 400SC Insecticide can be applied by overhead sprinkler chemigation systems. See **CHEMIGATION USING OVERHEAD SPRINKLER SYSTEMS** section for instructions on overhead sprinkler chemigation.

**Spray Volume:**

- Apply in a minimum of 2 gals water per acre by air and 10 gals of water per acre by ground (use sufficient water to obtain thorough coverage without excessive runoff). The highest labeled rate for a specified pest may be necessary when aerial applications are made.

**Banded Sunflower Moth and Sunflower Moth:** Apply when moth populations reach local established treatment thresholds and as blooms begin to open (sunflower growth stage R-5.0 to R-5.1) to prevent crop damage.

**Grasshopper:** Apply foliar when grasshopper populations reach local established thresholds to prevent crop damage. Correct timing of spray applications to nymphal stages and thorough coverage is critical to achieve control. Performance is improved with the addition of a Methylated Seed Oil adjuvant at 1 gallon per 100 gallons of spray volume (1% v/v) when eggs have hatched, and the majority of the grasshopper population is 2nd - 3rd instar nymphs. Once grasshoppers contact and/or ingest this product there will be rapid feeding cessation; insect mortality may not occur until a week later or longer.

**RESTRICTIONS:**

- DO NOT make more than 4 applications per acre per calendar year.
- DO NOT apply more than 7.7 fl oz of SHENZI 400SC Insecticide or 0.2 lb ai chlorantraniliprole containing products per acre per calendar year.
- Do not make more than two sequential applications of this product before rotating to another registered insecticide having a different mode-of-action.

Crop	Application Method	Insect	<b>SHENZI 400SC</b> Insecticide Rate Per Acre in Fl Oz (LB AI)	Re-Treatment Interval in Days (RTI)	Pre-Harvest Interval in Days (PHI)	Re-Entry Interval in Hours (REI)
Onion bulbs, and onion green subgroups: (EPA Crop Group 3-07A and 3-07B) including Chive, fresh leaves; chive, Chinese, fresh leaves; Daylily, bulb; elegans hosta; Fritillaria, bulb; fritillaria, 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; cultivars, varieties, and/or hybrids of these	Foliar	Beet armyworm, Western yellowstriped armyworm	1.7 - 3.8 (0.044 - 0.098)	7	1	4

**APPLICATION INSTRUCTIONS:**

- Apply higher rates within the listed range for heavier infestations, larger/denser crops, or extreme environmental conditions such as rainy weather and high temperatures.

**Spray Volume:**

- Apply in a minimum of 5 gals water per acre by air and 10 gals of water per acre by ground (use sufficient water to obtain thorough coverage without excessive runoff). The highest labeled rate for a specified pest may be necessary when aerial applications are made.

**RESTRICTIONS:**

- DO NOT make more than 4 applications per acre per crop or 12 applications per acre per calendar year.
- DO NOT apply more than 7.7 fl oz of SHENZI 400SC Insecticide or 0.2 lb ai chlorantraniliprole containing products per acre per crop.
- DO NOT apply more than 23.1 fl oz of SHENZI 400SC Insecticide or 0.6 lb ai chlorantraniliprole containing products per acre per calendar year.
- In NY DO NOT apply more than 7.7 fl oz of SHENZI 400SC Insecticide or 0.2 lb ai chlorantraniliprole containing products per acre per calendar year.

Crop	Application Method	Insect	SHENZI 400SC Insecticide Rate Per Acre in Fl Oz (LB AI)	Re-Treatment Interval in Days (RTI)	Pre-Harvest Interval in Days (PHI)	Re-Entry Interval in Hours (REI)
Peanut	Foliar Overhead Chemigation	Beet armyworm, Corn earworm, Fall armyworm, Green cloverworm, Lesser cornstalk borer, Southern armyworm, Tobacco budworm, Velvetbean caterpillar	1.7 - 3.8 (0.044 - 0.098)	5	1	4
		Cabbage looper, Granulate cutworm, Soybean looper	2.5 - 3.8 (0.065 - 0.098)			
		Grasshoppers	1.0 - 2.5 (0.026 - 0.065)			

**APPLICATION INSTRUCTIONS:**

- Apply higher rates within the listed range for heavier infestations, larger/denser crops, or extreme environmental conditions such as rainy weather and high temperatures.
- SHENZI 400SC Insecticide can be applied by overhead sprinkler chemigation systems. See **CHEMIGATION USING OVERHEAD SPRINKLER SYSTEMS** section for instructions on overhead sprinkler chemigation.

**Spray Volume:**

- Apply in a minimum of 2 gals water per acre by air and 10 gals of water per acre by ground (use sufficient water to obtain thorough coverage without excessive runoff). The highest labeled rate for a specified pest may be necessary when aerial applications are made.

**Grasshopper:** Apply foliar when grasshopper populations reach local established thresholds to prevent crop damage. Correct timing of spray applications to nymphal stages and thorough coverage is critical to achieve control. Performance is improved with the addition of a Methylated Seed Oil (MSO) adjuvant at 1 gallon per 100 gallons of spray volume (1% v/v) when eggs have hatched, and the majority of the grasshopper population is 2nd - 3rd instar nymphs. Once grasshoppers contact and/or ingest SHENZI 400SC Insecticide there will be rapid feeding cessation; insect mortality may not occur until a week later or longer.

**RESTRICTIONS:**

- DO NOT make more than 4 applications per acre per calendar year.
- DO NOT apply more than 7.7 fl oz of SHENZI 400SC Insecticide or 0.2 lb ai chlorantraniliprole containing products per acre per calendar year.
- DO NOT make more than two sequential applications of SHENZI 400SC Insecticide before rotating to another registered insecticide having a different mode-of-action.

Crop	Application Method	Insect	SHENZI 400SC Insecticide Rate Per Acre in Fl Oz (LB AI)	Re-Treatment Interval in Days (RTI)	Pre-Harvest Interval in Days (PHI)	Re-Entry Interval in Hours (REI)
Potato	Foliar Overhead Chemigation	Beet and Yellowstriped armyworms, Cabbage looper, Colorado potato beetle, European corn borer, Potato tuberworm	1.7 - 3.8 (0.044 - 0.098)	5	14	4
		Grasshoppers	1.0 - 2.5 (0.026 - 0.065)			

#### APPLICATION INSTRUCTIONS:

- Apply higher rates within the listed range for heavier infestations, larger/denser crops, or extreme environmental conditions such as rainy weather and high temperatures.
- SHENZI 400SC Insecticide may only be applied to potatoes as a direct foliar spray or via chemigation through overhead sprinkler irrigation systems. See **CHEMIGATION USING OVERHEAD SPRINKLER SYSTEMS** section for instructions on overhead sprinkler chemigation.

#### Spray Volume:

- Apply in a minimum of 5 gals water per acre by air and 10 gals of water per acre by ground (use sufficient water to obtain thorough coverage without excessive runoff). The highest labeled rate for a specified pest may be necessary when aerial applications are made.

**Colorado Potato Beetle Resistance Management:** DO NOT apply SHENZI 400SC Insecticide more than twice to a generation of Colorado potato beetle or within any 30 day period. Application(s) to the next generation of Colorado potato beetle must be with an effective product with a different mode of action.

**Potato Tuberworm:** Apply SHENZI 400SC Insecticide at rates of 1.7 - 2.5 fl oz per acre to control potato tuberworm. Begin application when field scouting indicates the presence of tuberworm adults and/or larvae. Potato tuberworm often have overlapping generations so repeat applications of SHENZI 400SC Insecticide may be needed based on field scouting. Avoid treating successive generations with the same mode of action. It is important to protect the crop just prior to harvest when foliage starts to senesce. Use the high rate of this product where potato tuberworm pressure is high. Failure to adequately control potato tuberworm larvae prior to crop senescence or vine kill increases the risk of tuber damage. Foliar sprays alone, by air or ground, may not provide adequate control of larvae in the mid to lower crop canopy. Performance is improved by applying via overhead chemigation. Alternatively, integrate chemigation applications into the foliar spray program.

Performance is improved with the addition of a Methylated Seed Oil (MSO) adjuvant at 1 gallon per 100 gallons of spray volume (1% v/v). For chemigation applications, apply in 0.1 to 0.2 acre inches of water and add MSO at 12 to 16 fl oz/acre. SHENZI 400SC Insecticide can be applied via overhead sprinkler chemigation systems.

Do not apply this product more than once to Colorado potato beetle via overhead chemigation.

**Cabbage Looper: West of the Rocky Mountains:** (NM, CO, WY, MT, UT, NV, AZ, ID, WA, OR, CA, AK and HI) apply SHENZI 400SC Insecticide at 1.0 - 1.7 fl oz per acre (0.026 - 0.044 lb ai/acre) to control early stage instars (1st - 3rd instar).

**Colorado Potato Beetle: West of the Rocky Mountains:** (NM, CO, WY, MT, UT, NV, AZ, ID, WA, OR, CA, AK and HI) apply SHENZI 400SC Insecticide at 1.0 - 1.7 fl oz per acre (0.026 - 0.044 lb ai/acre) to control local populations of Colorado Potato Beetle believed to be sensitive to most commonly used insecticides. Apply just prior to or just after egg hatch while larvae are small. In some areas, where local populations of Colorado Potato Beetle have elevated levels of resistance to insecticides, use SHENZI 400SC Insecticide at the 2.5 fluid ounce per acre application rate. With resistant populations of Colorado Potato Beetle, back-to-back applications on 5 to 7 day intervals may be required to achieve maximum control.

**Grasshopper:** Apply foliar when grasshopper populations reach local established thresholds to prevent crop damage. Correct timing of spray applications to nymphal stages and thorough coverage is critical to achieve control. Performance is improved with the addition of a Methylated Seed Oil (MSO) adjuvant at 1 gallon per 100 gallons of spray volume (1% v/v) when eggs have hatched, and the majority of the grasshopper population is 2nd - 3rd instar nymphs. Once grasshoppers contact and/or ingest SHENZI 400SC Insecticide there will be rapid feeding cessation; insect mortality may not occur until a week later or longer.

#### RESTRICTIONS:

- DO NOT make more than 4 applications per acre per calendar year.
- DO NOT apply more than 7.7 fl oz of SHENZI 400SC Insecticide or 0.2 lb ai chlorantraniliprole containing products per acre per calendar year.
- DO NOT make more than two sequential applications of this product before rotating to another registered insecticide having a different mode-of-action.

Crop	Application Method	Insect	SHENZI 400SC Insecticide Rate Per Acre in Fl Oz (LB AI)	Re-Treatment Interval in Days (RTI)	Pre-Harvest Interval in Days (PHI)	Re-Entry Interval in Hours (REI)
Rice - Arkansas, Texas, Louisiana, Mississippi, Missouri	SOIL APPLICATION† Broadcast spray	Rice water weevil larvae	3 - 3.8 (0.078 - 0.098)	N/A	N/A	4

#### APPLICATION INSTRUCTIONS:

Apply higher rates within the listed range for heavier infestations, larger/denser crops or extreme environmental conditions such as rainy weather and high temperatures.

† Only for application as a broadcast spray to soil.

**For Water-seeded Rice:** Apply SHENZI 400SC Insecticide insect control to soil surface prior to seeding and flooding. Apply in a sufficient volume of water to ensure thorough coverage. For improved performance, soil incorporation in the upper 1 - 2 inches of soil is recommended.

**For Dry-seeded Rice:** SHENZI 400SC Insecticide insect control may be applied to the surface of the soil before, during or after planting, but application must be made before rice emergence. After application of SHENZI 400SC Insecticide insect control, flush the field up to runoff and allow field to dry. Higher rates within the listed range should be used in dry-seeded rice when the permanent flood will be established at tillering. Broadcast application may be made using aerial or ground application equipment.

#### USE RESTRICTIONS:

- Do not apply more than 5 days prior to flooding in water seeded rice. Once flood is established, hold the water for a minimum of 14 days before discharging the water.
- Application of SHENZI 400SC Insecticide insect control to dry-seeded rice must be made before rice emergence. Then, if excessive rainfall occurs, or a flood is established, the water must be held for a minimum of 14 days after application before discharging the water.
- Do not apply more than 3.8 fl oz SHENZI 400SC Insecticide insect control or 0.098 lb ai of chlorantraniliprole containing products per acre per calendar year.
- Do not use rice fields treated with SHENZI 400SC Insecticide insect control for the aquaculture of edible fish or crustacea (including crawfish) during the rice production cycle (planting through harvest).

Crop	Application Method	Insect	SHENZI 400SC Insecticide Rate Per Acre in Fl Oz (LB AI)	Re-Treatment Interval in Days (RTI)	Pre-Harvest Interval in Days (PHI)	Re-Entry Interval in Hours (REI)
Quinoa	Foliar	Corn earworm, Beet armyworm, European corn borer, Fall armyworm, Grasshoppers, Sorghum webworm, Southwestern corn borer, Sugarcane borer, True armyworm	1.7 - 2.6 (0.044 - 0.067)	7	14	4

#### APPLICATION INSTRUCTIONS:

- Apply higher rates within the listed range for heavier infestations, larger/denser crops, or extreme environmental conditions such as rainy weather and high temperatures.

#### Spray Volume:

- Apply in a minimum of 2 gals water per acre by air and 10 gals of water per acre by ground (use sufficient water to obtain thorough coverage without excessive runoff). The highest labeled rate for a specified pest may be necessary when aerial applications are made.

#### RESTRICTIONS:

- DO NOT make more than 4 applications per acre per calendar year.
- DO NOT apply more than 7.7 fl oz of SHENZI 400SC Insecticide or 0.2 lb ai chlorantraniliprole containing products per acre per calendar year.



Crop	Application Method	Insect	SHENZI 400SC Insecticide Rate Per Acre in Fl Oz (LB AI)	Re-Treatment Interval in Days (RTI)	Pre-Harvest Interval in Days (PHI)	Re-Entry Interval in Hours (REI)
<b>Root and Tuber Vegetables (EPA Crop Group 1), except potato: including Arracacha; arrowroot; artichoke, Chinese; artichoke, Jerusalem; beet, garden; beet, sugar; burdock, edible; canna, edible; carrot; cassava, bitter and sweet; celeriac; chayote (root); chervil, turnip-rooted; chicory; chufa; dasheen (taro); ginger; ginseng; horseradish; leren; parsley, turnip-rooted; parsnip; radish; radish, oriental; rutabaga; salsify; salsify, black; salsify, Spanish; skirret; sweet potato; tanier; turmeric; turnip; yam bean; yam, true</b>	Foliar	Beet armyworm, Western yellowstriped armyworm	1.7 - 3.8 (0.044 - 0.098)	3	1	4
<b>APPLICATION INSTRUCTIONS:</b> <ul style="list-style-type: none"> <li>Apply higher rates within the listed range for heavier infestations, larger/denser crops, or extreme environmental conditions such as rainy weather and high temperatures.</li> </ul> <b>Spray Volume:</b> <ul style="list-style-type: none"> <li>Apply in a minimum of 5 gals water per acre by air and 10 gals of water per acre by ground (use sufficient water to obtain thorough coverage without excessive runoff). The highest labeled rate for a specified pest may be necessary when aerial applications are made.</li> </ul> <b>RESTRICTIONS:</b> <ul style="list-style-type: none"> <li>DO NOT make more than 4 applications per acre per crop or 16 applications per acre per calendar year.</li> <li>DO NOT apply more than 7.7 fl oz of SHENZI 400SC Insecticide or 0.2 lb ai chlorantraniliprole containing products per acre per crop.</li> <li>DO NOT apply more than 30.8 fl oz of SHENZI 400SC Insecticide or 0.8 lb ai chlorantraniliprole containing products per acre per calendar year.</li> <li>In NY DO NOT apply more than 7.7 fl oz of SHENZI 400SC Insecticide or 0.2 lb ai chlorantraniliprole containing products per acre per calendar year.</li> </ul>						

Crop	Application Method	Insect	SHENZI 400SC Insecticide Rate Per Acre in Fl Oz (LB AI)	Re-Treatment Interval in Days (RTI)	Pre-Harvest Interval in Days (PHI)	Re-Entry Interval in Hours (REI)
Soybean Including edamame (immature soybean)	Foliar Overhead Chemigation	Beet armyworm, Cabbage looper, Corn earworm, Cutworms, Fall armyworm, Garden webworm, Green cloverworm, Lesser cornstalk borer, Southern armyworm, Soybean looper, Thistle caterpillar, Tobacco budworm, Velvetbean caterpillar, Woollybear caterpillar	1.7 - 3.8 (0.044 - 0.098)	3	1	4
		Grasshoppers	1.0 - 2.5 (0.026 - 0.065)			
		Dectes stem borer	2.5 - 3.8 (0.065 - 0.098)			

**APPLICATION INSTRUCTIONS:**

- Apply higher rates within the listed range for heavier infestations, larger/denser crops, or extreme environmental conditions such as rainy weather and high temperatures.
- SHENZI 400SC Insecticide can be applied by overhead sprinkler chemigation systems. See **CHEMIGATION USING OVERHEAD SPRINKLER SYSTEMS** section for instructions on overhead sprinkler chemigation.

**Spray Volume:**

- Apply in a minimum of 2 gals water per acre by air and 10 gals of water per acre by ground (use sufficient water to obtain thorough coverage without excessive runoff). The highest labeled rate for a specified pest may be necessary when aerial applications are made.

**Grasshopper:** Apply foliar when grasshopper populations reach local established thresholds to prevent crop damage. Correct timing of spray applications to nymphal stages and thorough coverage is critical to achieve control. Performance is improved with the addition of a Methylated Seed Oil (MSO) adjuvant at 1 gallon per 100 gallons of spray volume (1% v/v) when eggs have hatched, and the majority of the grasshopper population is 2nd - 3rd instar nymphs. Once grasshoppers contact and/or ingest SHENZI 400SC Insecticide there will be rapid feeding cessation; insect mortality may not occur until a week later or longer. DO NOT make more than two sequential applications of this product before rotating to another registered insecticide having a different mode-of-action.

**Dectes Stem Borer:** To minimize crop damage by the pest, apply at the onset of adult beetle flight. Ensure thorough spray coverage and make application to soybeans prior to egg laying. For best results, regular scouting using a sweep net is necessary to identify the emergence and infestation of adult beetles. If regular scouting is not used, apply at 1500 Growing Degree Days (GDD) in Nebraska and northern Kansas or consult with your local agricultural advisor for advice on application timing. Continued scouting should be used to track the duration of the emergence period. A second application may be necessary at 3 to 4 weeks after the initial application if adults continue to emerge over an extended period.

**RESTRICTIONS:**

- DO NOT make more than 4 applications per acre per calendar year.
- DO NOT apply more than 7.7 fl oz of SHENZI 400SC Insecticide or 0.2 lb ai chlorantraniliprole containing products per acre per calendar year.

Crop	Application Method	Insect	SHENZI 400SC Insecticide Rate Per Acre in Fl Oz (LB AI)	Re-Treatment Interval in Days (RTI)	Pre-Harvest Interval in Days (PHI)	Re-Entry Interval in Hours (REI)
Spice (EPA Crop Subgroup 19B) Including: Allspice; anise (seed); anise, star; annatto (seed); caper (buds); caraway; caraway, black; cardamom; cassia (bark); cassia (buds); celery (seed); cinnamon; clove (buds); coriander (seed); culantro (seed); cumin; dill (seed); fennel, common; fennel, Florence (seed); fenugreek; grains of paradise; juniper (berry); lovage (seed); mace; mustard (seed); nutmeg; pepper, black; pepper, white; poppy (seed); saffron; and vanilla	Foliar	Beet armyworm, Cabbage looper, Corn earworm, Fall armyworm, Southern armyworm	1.7 - 2.5 (0.044 - 0.065)	3	1	4

#### APPLICATION INSTRUCTIONS:

- Apply higher rates within the listed range for heavier infestations, larger/denser crops, or extreme environmental conditions such as rainy weather and high temperatures.

#### Spray Volume:

- Apply in a minimum of 5 gals water per acre by air and 10 gals of water per acre by ground (use sufficient water to obtain thorough coverage without excessive runoff). The highest labeled rate for a specified pest may be necessary when aerial applications are made.

**PLANT TOLERANCE PHYTOTOXICITY:** SHENZI 400SC Insecticide has been tested on numerous crops and cultivars with no observable phytotoxicity at label rates. However, neither the manufacturer nor the seller has determined whether or not SHENZI 400SC Insecticide can be used safely on all herbs and spices for which it is registered for use. Since all herbs and spices and their varieties and cultivars have not been tested for phytotoxicity it is recommended that a small number of plants be sprayed initially to determine if there is any phytotoxicity prior to large scale applications to herbs and spices. The user assumes all risks arising from application of this product in a manner that is inconsistent with its labeling.

#### RESTRICTIONS:

- DO NOT make more than 4 applications per acre per crop or 16 applications per acre per calendar year.
- DO NOT apply more than 7.7 fl oz of SHENZI 400SC Insecticide or 0.2 lb ai chlorantraniliprole containing products per acre per crop.
- DO NOT apply more than 30.8 fl oz of SHENZI 400SC Insecticide or 0.8 lb ai chlorantraniliprole containing products per acre per calendar year.
- In NY DO NOT apply more than 7.7 fl oz of SHENZI 400SC Insecticide or 0.2 lb ai chlorantraniliprole containing products per acre per calendar year.

Crop	Application Method	Insect	SHENZI 400SC Insecticide Rate Per Acre in Fl Oz (LB AI)	Re-Treatment Interval in Days (RTI)	Pre-Harvest Interval in Days (PHI)	Re-Entry Interval in Hours (REI)
Strawberry	Foliar	Beet armyworm, Cabbage looper, Corn earworm, Japanese beetle (adult), Light brown apple moth	1.7 - 3.8 (0.044 - 0.098)	7	1	4

#### APPLICATION INSTRUCTIONS:

- Apply higher rates within the listed range for heavier infestations, larger/denser crops or extreme environmental conditions such as rainy weather and high temperatures.

#### Spray Volume:

- Apply in a minimum of 5 gals water per acre by air and 10 gals of water per acre by ground (use sufficient water to obtain thorough coverage without excessive runoff). The highest labeled rate for a specified pest may be necessary when aerial applications are made.

**Light Brown Apple Moth:** Make the first application at initiation of egg hatch, small larvae or at first signs of infestation for each generation. Use the higher application rate for moderate to heavy insect pressure. Make application before pests reach damaging levels. Monitor fields and make an additional application if populations rebuild to potentially damaging levels.

Apply in sufficient water to obtain thorough and uniform cover of foliage and fruit. Consult your state cooperative extension service, professional consultants or other qualified authorities to determine appropriate action threshold levels for this pest in strawberry.

#### RESTRICTIONS:

- DO NOT make more than 4 applications per acre per crop or 8 application per acre per calendar year.
- DO NOT apply more than 7.7 fl oz of SHENZI 400SC Insecticide or 0.2 lb ai chlorantraniliprole containing products per acre per crop.
- DO NOT apply more than 15.4 fl oz of SHENZI 400SC Insecticide or 0.4 lb ai chlorantraniliprole containing products per acre per calendar year.
- In NY DO NOT apply more than 7.7 fl oz of SHENZI 400SC Insecticide or 0.2 lb ai chlorantraniliprole containing products per acre per calendar year. Apply higher rates within the listed range for heavier infestations, larger/denser crops, or extreme environmental conditions such as rainy weather and high temperatures.

Crop	Application Method	Insect	SHENZI 400SC Insecticide Rate Per Acre in Fl Oz (LB AI)	Re-Treatment Interval in Days (RTI)	Pre-Harvest Interval in Days (PHI)	Re-Entry Interval in Hours (REI)
Sugarcane	Foliar Overhead Chemigation	Sugarcane borer, Lesser cornstalk borer, Mexican rice borer	1.7 - 3.8 (0.044 - 0.098)	7	14	4
		Grasshoppers	1.0 - 2.5 (0.026 - 0.065)			

**APPLICATION INSTRUCTIONS:**

- Apply higher rates within the listed range for heavier infestations, larger/denser crops or extreme environmental conditions such as rainy weather and high temperatures.

**Spray Volume:**

- Apply in a minimum of 2 gals water per acre by air and 10 gals of water per acre by ground (use sufficient water to obtain thorough coverage without excessive runoff). The highest labeled rate for a specified pest may be necessary when aerial applications are made.
- SHENZI 400SC Insecticide can be applied by overhead sprinkler chemigation systems. See **CHEMIGATION USING OVERHEAD SPRINKLER SYSTEMS** section for instructions on overhead sprinkler chemigation.

**Mexican Rice Borer:** Make the application at initiation of egg hatch, small larvae or at first signs of infestation. The lower recommended rate range can be used when shorter residual control is needed. Use the higher recommended rate range for heavy insect pressure or when longer residual control is desired. Make the application before pests reach damaging levels. Apply in sufficient water to obtain thorough and uniform cover of foliage. Consult your state cooperative extension service, professional consultants, or other qualified authorities to determine appropriate action threshold levels for these pests in sugarcane.

**Grasshopper:** Apply foliar when grasshopper populations reach local established thresholds to prevent crop damage. Correct timing of spray applications to nymphal stages and thorough coverage is critical to achieve control. Performance is improved with the addition of a Methylated Seed Oil (MSO) adjuvant at 1 gallon per 100 gallons of spray volume (1% v/v) when eggs have hatched, and the majority of the grasshopper population is 2nd - 3rd instar nymphs. Once grasshoppers contact and/or ingest SHENZI 400SC Insecticide there will be rapid feeding cessation; insect mortality may not occur until a week later or longer.

**RESTRICTIONS:**

- DO NOT make more than 4 applications per acre per calendar year.
- DO NOT apply more than 7.7 fl oz of SHENZI 400SC Insecticide or 0.2 lb ai chlorantraniliprole containing products per acre per calendar year. Apply higher rates within the listed range for heavier infestations, larger/denser crops or extreme environmental conditions such as rainy weather and high temperatures.
- DO NOT make more than two sequential applications of this product before rotating to another registered insecticide having a different mode-of-action.

Crop	Application Method	Insect	SHENZI 400SC Insecticide Rate Per Acre in Fl Oz (LB AI)	Re-Treatment Interval in Days (RTI)	Pre-Harvest Interval in Days (PHI)	Re-Entry Interval in Hours (REI)
Teff	Foliar	Beet armyworm, Corn earworm, European corn borer, Fall armyworm, Grasshoppers, Sorghum webworm, Southwestern corn borer, Sugarcane borer, True armyworm	1.7 - 2.6 (0.044 - 0.067)	7	14	4

**APPLICATION INSTRUCTIONS:**

- Apply higher rates within the listed range for heavier infestations, larger/denser crops, or extreme environmental conditions such as rainy weather and high temperatures.

**Spray Volume:**

- Apply in a minimum of 2 gals water per acre by air and 10 gals of water per acre by ground (use sufficient water to obtain thorough coverage without excessive runoff). The highest labeled rate for a specified pest may be necessary when aerial applications are made.

**RESTRICTIONS:**

- DO NOT make more than 4 applications per acre per calendar year.
- DO NOT apply more than 7.7 fl oz of SHENZI 400SC Insecticide or 0.2 lb ai chlorantraniliprole containing products per acre per calendar year.

Crop	Application Method	Insect	SHENZI 400SC Insecticide Rate Per Acre in Fl Oz (LB AI)	Re-Treatment Interval in Days (RTI)	Pre-Harvest Interval in Days (PHI)	Re-Entry Interval in Hours (REI)
Forage, Fodder, and Straw of Teff	Foliar	Beet armyworm, Corn earworm, European corn borer, Fall armyworm, Grasshoppers, Sorghum webworm, Southwestern corn borer, Sugarcane borer, True armyworm	1.8 - 2.5 (0.047 - 0.066)	7	14	4

**APPLICATION INSTRUCTIONS:**

- Apply higher rates within the listed range for heavier infestations, larger/denser crops, or extreme environmental conditions such as rainy weather and high temperatures.

**Spray Volume:**

- Apply in a minimum of 2 gals water per acre by air and 10 gals of water per acre by ground (use sufficient water to obtain thorough coverage without excessive runoff). The highest labeled rate for a specified pest may be necessary when aerial applications are made.

**RESTRICTIONS:**

- DO NOT make more than 4 applications per acre per calendar year.
- Minimum interval between treatments if 7 days.
- DO NOT apply more than 7.7 fl oz of SHENZI 400SC Insecticide or 0.2 lb ai chlorantraniliprole containing products per acre per calendar year.

Crop	Application Method	Insect	SHENZI 400SC Insecticide Rate Per Acre in Fl Oz (LB AI)	Re-Treatment Interval in Days (RTI)	Pre-Harvest Interval in Days (PHI)	Re-Entry Interval in Hours (REI)
Tobacco (except California)	SOIL AT PLANTING (transplant water treatment only)	Tobacco budworm, Tomato hornworm, Tobacco hornworm	2.5 - 3.8 (0.065 - 0.098)	3	1	4
	Foliar	Split worm (potato tuberworm), Tobacco budworm, Tomato hornworm, Tobacco hornworm	1.7 - 3.8 (0.044 - 0.098)			
		Grasshoppers	1.0 - 2.5 (0.026 - 0.065)			

**APPLICATION INSTRUCTIONS:**

- Apply higher rates within the listed range for heavier infestations, larger/denser crops, or extreme environmental conditions such as rainy weather and high temperatures.

**Spray Volume:**

- Apply in a minimum of 5 gals water per acre by air and 10 gals of water per acre by ground (use sufficient water to obtain thorough coverage without excessive runoff). The highest labeled rate for a specified pest may be necessary when aerial applications are made.

**Soil Applications (transplant water treatment at planting):**

- SHENZI 400SC Insecticide must be applied uniformly in the root zone or poor performance will result.
- DO NOT apply more than 2.5 fl oz (0.098 lb ai per acre) of SHENZI 400SC Insecticide to the soil at planting.
- Refer to the **SOIL APPLICATION** section of this label for additional guidance.

**RESTRICTIONS:**

- DO NOT make more than 4 applications per acre per calendar year.
- DO NOT apply more than 7.7 fl oz of SHENZI 400SC Insecticide or 0.2 lb ai chlorantraniliprole containing products per acre per calendar year.

Crop	Application Method	Insect	SHENZI 400SC Insecticide Rate Per Acre in Fl Oz (LB AI)	Re-Treatment Interval in Days (RTI)	Pre-Harvest Interval in Days (PHI)	Re-Entry Interval in Hours (REI)
Tree Nuts, (EPA Crop Group 14-12) Pecan	Foliar	Hickory shuckworm, Pecan nut casebearer	1.7 - 3.8 (0.044 - 0.098)	7	10	4

**APPLICATION INSTRUCTIONS:**

**Spray Volume:**

- Thorough coverage is essential. Select a spray volume appropriate for the size of trees or plants and density of foliage.
- DO NOT apply less than 30 gals water per acre.
- For best results apply 100 - 150 gals water per acre by ground. Where higher spray volumes are used, apply a higher SHENZI 400SC Insecticide rate in the specified rate range.
- Apply in a minimum of 10 gals water per acre by air. The highest labeled rate for a specified pest may be necessary when aerial applications are made.
- Hazelnut (Filbert); Pecan: Apply in a minimum of 30 gals water per acre by air. The highest labeled rate for a specified pest may be necessary when aerial applications are made.

**Grazing on Tree Nut Orchard or Grove Floor:** There are no grazing restrictions for (1) Grass forage, fodder, and hay. Any grass Gramineae family (either green or cured) except sugarcane and those included in the cereal grains group, that will be fed to or grazed by livestock, all pasture and range grasses and grasses grown for hay or silage, and (2) Non-grass animal feeds.

**RESTRICTIONS:**

- DO NOT make more than 4 applications per acre per calendar year.
- DO NOT apply more than 7.7 fl oz of SHENZI 400SC Insecticide or 0.2 lb ai chlorantraniliprole containing products per acre per calendar year.

## STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE:** Do not subject to temperatures below 32 degrees F. Store product in original container only in a location inaccessible to children and pets. Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Not for use or storage in or around the home.

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

### CONTAINER HANDLING:

**For Small (Capacity Equal to or Less Than 5 Gallons) Nonrefillable HDPE 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 and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration.

OR

**For Large (Capacity Greater Than 5 Gallons) Nonrefillable HDPE 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 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 it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration.

### IMPORTANT INFORMATION READ BEFORE USING PRODUCT

#### 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 reflect the opinion of experts based on field use and tests, and must be followed carefully. It is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of UPL NA Inc. or Seller. Handling, storage, and use of the product by Buyer or User are beyond the control of UPL NA Inc. and 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 UPL NA Inc. and Seller harmless for any claims relating to such factors.

**TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, UPL NA INC. AND SELLER MAKE NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ON THIS LABEL.**

**To the extent consistent with applicable law, UPL NA Inc. or Seller shall not be liable for any incidental, consequential or special damages resulting from the use or handling of this product and THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF UPL NA INC. AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF UPL NA INC. OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

UPL NA Inc. and Seller offer this product, and Buyer and User accept it, subject to the foregoing conditions of sale and limitations of warranty and of liability, which may not be modified except by written agreement signed by the duly authorized representative of UPL NA Inc.

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# SHENZI™ 400SC

## INSECTICIDE

SHENZI 400SC Insecticide is a suspension concentrate.

**SHAKE WELL BEFORE USING.**

**Not for sale, sale into, distribution and/or use in Nassau, Suffolk, Kings, and Queens counties of New York state.**

### ACTIVE INGREDIENT

### BY WEIGHT

Chlorantraniliprole	
3-Bromo-N-[4-chloro-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-1H-pyrazole-5-carboxamide*	34.2%
<b>OTHER INGREDIENTS</b>	65.8%
<b>TOTAL</b>	100.0%

\*Contains 3.33 lbs active ingredient per gallon.

EPA Reg. No. 70506-607

EPA Est. No. 41876-IND-004

## CAUTION

### KEEP OUT OF REACH OF CHILDREN

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

### FIRST AID

**IF ON SKIN OR CLOTHING:** • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15 - 20 minutes. • Call a poison control center or doctor for treatment advice.

**IF INHALED:** • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth to mouth, if possible. • Call a poison control center or doctor for treatment advice.

**IF IN EYES:** • Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact lenses if present, after the first 5 minutes, then continue rinsing. • Call a poison control center or doctor for treatment advice.

**IF SWALLOWED:** • Call a poison control center or doctor for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.

Have the product container or label with you when calling a Poison Center or doctor or going for treatment. For emergency medical treatment, contact Rocky Mountain Poison and Drug Safety at 1-866-673-6671. For chemical emergency: spill, leak, fire, exposure, or accident, call CHEMTREC at 1-800-424-9300.

See attached booklet for additional Precautionary Statements and complete Directions For Use.

## Net Contents: 2.5 Gallons

Made in India

UPL NA Inc. • PO Box 12219, Research Triangle Park, NC 27709 U.S.A. • 1-800-438-6071

### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

#### CAUTION

Harmful if absorbed through skin. Harmful if inhaled. Avoid contact with skin, eyes or clothing. Avoid breathing (dust, vapor or spray mist).

#### Environmental Hazards

This pesticide is toxic to aquatic invertebrates, oysters, and shrimp. Do not apply directly to water. Drift and runoff may be hazardous to aquatic organisms in water adjacent to use sites.

#### Surface Water Advisory

This product may impact surface water quality due to runoff of rainwater. 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. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential loading of chlorantraniliprole from runoff water and sediment. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours.

#### Ground Water Advisory

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

#### Physical and Chemical Hazards:

Do not mix or allow coming in contact with Oxidizing agents. Hazardous Chemical reaction may occur.

### DIRECTIONS FOR USE

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

## STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE:** Do not subject to temperatures below 32 degrees F. Store product in original container only in a location inaccessible to children and pets. Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Not for use or storage in or around the home.

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

#### CONTAINER HANDLING:

**For Small (Capacity Equal to or Less Than 5 Gallons) Nonrefillable HDPE 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 and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration.

