

# RUGER™ 1 EC



Contains hexythiazox, the active ingredient used in Onager® Miticide.

**ACTIVE INGREDIENT:**

(% by weight)

Hexythiazox: <i>trans</i> -5-(4-Chlorophenyl)-N-cyclohexyl -4-methyl-2-oxothiazolidine-3-carboxamide.....	11.8%
<b>OTHER INGREDIENTS</b> .....	88.2%
<b>TOTAL</b> .....	100.0%

Contains 1.0 pound hexythiazox per gallon.  
Contains petroleum distillate

EPA Reg. No.: 91234-37

## KEEP OUT OF REACH OF CHILDREN CAUTION

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

SEE BELOW FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

FIRST AID	
<b>If swallowed:</b>	<ul style="list-style-type: none"> <li>• Immediately call a poison control center or doctor for treatment advice.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give <b>any</b> liquid to the person.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If on skin or clothing:</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If in eyes:</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
HOT LINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For additional information on this pesticide product, including health concerns or emergency medical treatment, you may call <b>SafetyCall</b> at <b>1-844-685-9173</b> , 24 hours per day, 7 days per week. For pesticide incidents or chemical emergencies, you may call <b>CHEMTREC®</b> at <b>1-800-424-9300</b> (within the U.S. and Canada), 24 hours per day, 7 days per week.	
NOTE TO PHYSICIAN	
May pose an aspiration pneumonia hazard. Contains petroleum distillates.	

Ruger 1 EC™ is not manufactured, or distributed by Gowan, seller of Onager® Miticide.



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

**Contains petroleum distillates.** Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Avoid breathing vapor or spray mist. Avoid contact with skin, eyes, or clothing. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove contaminated clothing and wash clothing before reuse.

**PERSONAL PROTECTIVE EQUIPMENT (PPE):**

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants,
- Chemical-resistant gloves such as barrier laminate, nitrile rubber  $\geq 14$  mils, neoprene rubber  $\geq 14$  mils, or viton  $\geq 14$  mils, and
- Shoes plus socks

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

**USER SAFETY RECOMMENDATIONS**

**Users should:**

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

**ENVIRONMENTAL HAZARDS:**

This pesticide is toxic to fish and aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when cleaning equipment or when disposing of equipment washwaters.

**PHYSICAL OR CHEMICAL HAZARDS:**

Do not use, pour, spill or store near heat or open flame. Do not mix or allow contact with oxidizing agents. Hazardous chemical reaction may occur.

**Product Information**

**Ruger 1 EC** is recommended for use as a foliar application in labeled crops. **Ruger 1 EC** provides effective control of Tetranychid spider mite species. It is an emulsifiable concentrate to be mixed with water and applied as a spray. **Ruger 1 EC** controls mites through activity on eggs and immature stages. Control is achieved from either direct contact with the spray or from contact with treated plant surfaces. Through its ovicidal activity, **Ruger 1 EC** controls newly deposited mite eggs and eggs which are laid after application. **Ruger 1 EC** is also highly effective in controlling immature motile stages of target mite species that are sprayed or move onto treated surfaces. Adult mites are not directly affected. However, eggs produced by females in contact with treated surfaces will be rendered nonviable. **Ruger 1 EC** provides residual control of pest mite species. The degree and duration of control is dependent on the rate used, growth stage of the mite, species of mite, and climatic conditions under which the material is applied.

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Failure to follow the Directions For use and Precautions on this label may result in plant injury or poor disease control.

**USE RESTRICTIONS ON ALL CROPS**

- Apply this product only as specified the EPA approved label and any supplemental labeling.
- Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.
- Do not graze or feed livestock on cover crops growing in treated areas.
- **Ruger 1 EC** is an emulsifiable concentrate to be diluted with water for application in commercial plantings only.
- Apply **Ruger 1 EC** prior to adult mite build up. **Ruger 1 EC** will not control adult spider mites. Use higher rates on moderate-to-high mite infestations or for larger plants with a dense canopy. If adult mites are present in medium-to-high populations, better results may be obtained using **Ruger 1 EC** in combination with a registered contact adulticide. The use of less than label rates is not recommended with **Ruger 1 EC**.
- Do not make more than one application of **Ruger 1 EC** or any other Hexythiazox product to the same crop per year.
- Do not plant rotational crops other than those on this label within 120 days of this application.
- For any requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation.

**AGRICULTURAL USE REQUIREMENTS**

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

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours. PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:

- Coveralls
- Chemical-resistant gloves such as barrier laminate, nitrile rubber  $\geq 14$  mils, neoprene rubber  $\geq 14$  mils, or viton  $\geq 14$  mils, and
- Shoes plus socks

**Mixing Directions:**

- Turn on spray tank agitation. Pour recommended amount of this material on the surface of water in a nearly filled spray tank.
- Add balance of water to fill the tank.
- Keep agitator running during filling and spraying operations. Do not allow mixture to stand.

**Managing Mite Resistance**

For resistance-management, **Ruger 1 EC** contains a Group 10A acaricide. Any insect population may contain individuals naturally resistant to **Ruger 1 EC** and other Group 10A acaricides. The resistant individuals may dominate the insect population if this group of acaricides are used repeatedly in the same fields. Appropriate resistance-management strategies should be followed. To reduce the potential for developing insect resistance, rotate to an acaricide with a different mode of action. Monitor treated pest populations for resistance development. Read product label before applying any acaricide and follow label directions.



To delay acaricide resistance, take the following steps:

- Rotate the use of **Ruger 1 EC** or other Group 10A acaricides within a growing season, or among growing seasons, with different groups that control the same pests. Avoid application of more than the maximum seasonal use rate or the total number of consecutive sprays of **Ruger 1 EC** per season.
- Use tank mixtures with acaricides from a different group that are equally effective on the target pest when such use is permitted. Do not rely on the same mixture repeatedly for the same pest population. Consider any known cross-resistance issues (for the targeted pests) between the individual components of a mixture. In addition, consider the following recommendations provided by the Insecticide Resistance Action Committee (IRAC):
  - Individual acaricides selected for use in mixtures should be highly effective and be applied at the rates at which they are individually registered for use against the target species.
  - Mixtures with components having the same IRAC mode of action classification are not recommended for insect resistance-management.
  - When using mixtures, consider any known cross-resistance issues between the individual components for the targeted pest(s).
  - Mixtures become less effective if resistance is already developing to one or both active ingredients, but they may still provide pest management benefits.
  - The insect resistance-management benefits of an acaricide mixture are greatest if the two components have similar periods of residual acaricidal activity. Mixtures of acaricides with unequal periods of residual acaricidal activity may offer an insect resistance management benefit only for the period where both acaricides are active.
- Adopt an integrated pest management program for acaricide use that includes scouting, uses historical information related to pesticide use, crop rotation, record keeping, and which considers cultural, biological and other chemical control practices.
- Monitor after application for unexpected target pest survival. If the level of survival suggests the presence of resistance, consult with your local university specialist or certified pest control advisor.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for the specific site and pest problems in your area.
- For further information or to report suspected resistance contact Atticus, LLC representatives at 984-465-4754.

#### Mixing Directions:

- Turn on spray tank agitation. Pour recommended amount of this material on the surface of water in a nearly filled spray tank.
- Add balance of water to fill the tank.
- Keep agitator running during filling and spraying operations. Do not allow mixture to stand.

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.

#### Compatibility

**Ruger 1 EC** is compatible with most agricultural chemicals. However, all possible combinations have not been evaluated. Before full-scale mixing of **Ruger 1 EC** with other products, test mix small proportionate quantities of each to ensure compatibility.

#### Phytotoxicity Notice

As is common with most emulsifiable concentrate formulations, adverse effects such as spotting or discoloration of the treated surfaces can occur. Some conditions known to contribute to phytotoxicity include, but are not limited to, high temperatures, poor spray drying conditions, excessive spray deposit or run-off, certain spray mixtures, stage of crop development or tank mixes with other pesticides.

#### Application Information

Use sufficient spray volume to obtain thorough, uniform coverage of all plant surfaces. Apply using ground equipment, chemigation or air unless otherwise specified under the crop USE DIRECTIONS or on supplemental labeling supplied by Atticus, LLC.

**IMPORTANT: Ruger 1 EC is a 1 pound active ingredient per gallon** emulsifiable concentrate formulation to be diluted with water for application in commercial plantings only. Do not use in home plantings.

#### Use Recommendations

For best results, apply **Ruger 1 EC** at first sign of mites before adult mite build up. **Ruger 1 EC** will not control adult spider mites. Use higher labeled rates on moderate-to-high mite infestations, large trees with dense foliage, or for extended residual control. The lowest rate of **Ruger 1 EC** may be used in conjunction with other IPM strategies, or for shorter residual control later in the season. The use of less than label rates is not recommended since it will result in poor performance and contribute to resistance development. If adult mites are present in medium-to-high populations, better results may be obtained using **Ruger 1 EC** in combination with a registered contact adulticide. **Ruger 1 EC** may be tank mixed with horticultural grade oil. Refer to all precautions regarding phytotoxicity on the oil label.

#### Chemigation Systems

**Ruger 1 EC** may be applied through irrigation systems (chemigation) to any crop on the **Ruger 1 EC** label unless otherwise specified under the crop Use Directions or on supplemental labeling supplied by Atticus, LLC. Do not allow chemigation to run off field.

#### Types of Irrigation Systems

Apply **Ruger 1 EC** only through sprinkler, including center pivot, lateral move, Low Energy Precision Applications (LEPA), end tow, side (wheel) roll, traveler, big gun, solid set, or hand move irrigation systems. Do not apply **Ruger 1 EC** through any other type of irrigation system.

### DIRECTIONS FOR ALL RECOMMENDED TYPES OF IRRIGATION SYSTEMS

#### Uniform Water Distribution and System Calibration

The irrigation system must provide uniform distribution of treated water. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water. The system must be calibrated to uniformly apply the rates specified. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts. For best results apply at 100% input/travel speed, for center pivots or 0.10 inch (2.716 gallons) up to 0.15 inch (4,073 gallons) of water/A, for other systems. Higher labeled rates of **Ruger 1 EC** may be necessary for chemigation applications.

#### Chemigation Monitoring

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.

#### Drift

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



### Required System Safety Devices

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

### Using Water from Public Water Systems

Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year. Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, back flow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the flow outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection. The pesticide injection pipeline must contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

### Cleaning the Chemical Injection System

In order to accurately apply pesticides, the chemical injection system must be kept clean; free of chemical or fertilizer residues and sediments. Refer to your owner's manual or ask your equipment supplier for the cleaning procedure for your injection system.

### Flushing the Irrigation System

At the end of the application period, allow time for all lines to flush the pesticide through all nozzles or emitters before turning off irrigation water. To ensure the lines are flushed and free of pesticides, a dye indicator may be injected into the lines to mark the end of the application period.

### Equipment Area Contamination Prevention

It is recommended that nozzles in the immediate area of control panels, chemical supply tanks, pumps and system safety devices be plugged to prevent chemical contamination of these areas.

### Center-Pivot and Automatic-Move Linear Systems

Inject the specified dosage per acre continuously for one complete revolution or move of the system. DO NOT USE END GUNS. The system should be run at maximum speed.

### Solid Set and Manually Controlled Linear Systems

Injection should be during the last 30 to 60 minutes of regular irrigation period or as a separate 30 to 60 minute application not associated with a regular irrigation. DO NOT USE END GUNS.

### PREHARVEST INTERVAL

The required days between the last application and harvest are given in ( ) after each crop name.

CROP	PEST	RATE OZS./ACRE	USE DIRECTIONS
ALFALFA (14) (WESTERN US ONLY*)	Two-spotted spider mite	10 - 24	<p><b>Ground Application:</b> Apply the labeled rate of <b>Ruger 1 EC</b> by ground equipment at 15 – 20 GPA.</p> <p><b>Air Application:</b> Apply the labeled rate of <b>Ruger 1 EC</b> by air in a minimum of 5 GPA. Applications made by air to dense foliage may not provide adequate coverage of lower leaf surfaces for sufficient control. Use of higher labeled rates may be necessary.</p> <p><b>Chemigation:</b> see details under Chemigation Systems.</p>
	<p><b>RESTRICTIONS:</b></p> <ul style="list-style-type: none"> <li>Do not apply more than a total of 24 ozs. of formulated product per acre per calendar year.</li> <li>Do not make more than one application per calendar year.</li> </ul> <p>*May only be applied in the Western US - west of the line defined as follows:                      TX: W of Rt. 283 and NW of Rt. 377                      OK: W of Rt. 281/183                      KS, NE, SD, ND: W of Rt. 281</p>		
TIMOTHY (14) (West of the Rockies)	McDaniel spider mite, Two-spotted spider mite, Banks grass mite	10 - 24	<p><b>Ground Application:</b> Apply the labeled rate of <b>Ruger 1 EC</b> by ground equipment at 15 – 20 GPA.</p> <p><b>Air Application:</b> Apply the labeled rate of <b>Ruger 1 EC</b> by air in a minimum of 5 GPA. Applications made by air to dense foliage may not provide adequate coverage of lower leaf surfaces for sufficient control. Use of higher labeled rates may be necessary.</p> <p><b>Chemigation:</b> see details under Chemigation Systems.</p>
	<p><b>RESTRICTIONS:</b></p> <ul style="list-style-type: none"> <li>Do not apply within 14 days of harvest for hay.</li> <li>Animals may graze treated fields on the day of application.</li> <li>Do not apply more than a total of 24 ozs. of formulated product per acre per calendar year.</li> <li>Do not make more than one application per calendar year.</li> </ul>		

Continued



### PREHARVEST INTERVAL (Cont.)

The required days between the last application and harvest are given in ( ) after each crop name.

CROP	PEST	RATE OZS./ACRE	USE DIRECTIONS
<b>BEANS, DRY AND SUCCULENT (14)</b> (WESTERN US ONLY*)	Two-spotted spider mite, Pacific spider mite, Strawberry spider mite	10 - 24	<b>Ground Application:</b> Apply a minimum of 20 gallons finished spray per acre. <b>Air application:</b> apply a minimum of 10 gallons finished spray per acre. <b>Chemigation:</b> see details under Chemigation Systems.
	<b>RESTRICTIONS:</b> <ul style="list-style-type: none"> <li>• Do not apply more than a total of 24 ozs. of formulated product per acre per calendar year.</li> <li>• Do not make more than one application per calendar year.</li> <li>• Do not harvest or graze bean vine forage or hay.</li> </ul> *May only be applied in the Western US - west of the line defined as follows: TX: W of Rt. 283 and NW of Rt. 377 OK: W of Rt. 281/183 KS, NE, SD, ND: W of Rt. 281		
<b>BERMUDAGRASS (7)</b> (West of the Rockies)	Banks grass mite, Two-spotted spider mite	12 - 24	Apply at the first sign of mites before populations begin to build. <b>Ground Application:</b> Apply the labeled rate of <b>Ruger 1 EC</b> by ground equipment at 15 - 20 GPA. <b>Air Application:</b> Apply the labeled rate of <b>Ruger 1 EC</b> by air in a minimum of 5 GPA. Applications made by air to dense foliage may not provide adequate coverage of lower leaf surfaces for sufficient control. Use of higher labeled rates may be necessary. <b>Chemigation:</b> see details under Chemigation Systems on Section 3 label.
	<b>RESTRICTIONS:</b> <ul style="list-style-type: none"> <li>• Do not apply more than a total of 24 ozs. of formulated product per acre per calendar year.</li> <li>• Do not make more than one application per calendar year.</li> </ul>		
<b>CITRUS (7)</b> (CA, AZ AND TX ONLY)	Tetranychid Mites (such as European Red Mite and Two-spotted Spider mite)	12 - 24	Application by ground equipment only. Use sufficient volume of water to obtain complete coverage but not less than 20 gallons per acre.
	<b>RESTRICTIONS:</b> <ul style="list-style-type: none"> <li>• Do not make more than one application per calendar year.</li> <li>• Do not apply more than 24 ozs. of formulated product per acre per calendar year.</li> </ul>		
<b>COTTON (35)</b>	Two-spotted spider mite, Pacific spider mite, Strawberry spider mite, Carmine spider mite	12 - 20	Apply <b>Ruger 1 EC</b> before boll opening and prior to adult mite buildup. Complete coverage of foliage is essential to optimal performance. <b>Ground Application:</b> Apply at labeled rates <b>Air application:</b> Use labeled per acre rate and apply a minimum of 2 gallons of finished spray per acre. <b>Chemigation:</b> see details under Chemigation Systems.
	<b>RESTRICTIONS:</b> <ul style="list-style-type: none"> <li>• Do not apply more than a total of 20 ozs. of formulated product per acre per calendar year.</li> <li>• Do not make more than one application per calendar year.</li> </ul>		
<b>CORN, FIELD (30)</b>	Banks grass mite, Two-spotted spider mite, Pacific spider mite, Strawberry spider mite	12 - 24	<b>Ground Application:</b> Apply the labeled rate of <b>Ruger 1 EC</b> with conventional spray boom equipment at 15 - 20 GPA. Thorough and uniform coverage of plants is required for optimal results. <b>Air Application:</b> Apply the labeled rate of <b>Ruger 1 EC</b> by air in a minimum of 5 GPA. Applications made by air to dense foliage may not provide adequate coverage of lower leaf surfaces for sufficient control. Use of higher labeled rates may be necessary. <b>Chemigation:</b> see details under Chemigation Systems.
	<b>RESTRICTIONS:</b> <ul style="list-style-type: none"> <li>• Do not apply more than a total of 24 ozs. of formulated product per acre per calendar year.</li> <li>• Do not make more than one application per calendar year.</li> <li>• Do not harvest field corn forage, stover, and grain for 30 days after application.</li> </ul>		

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**PREHARVEST INTERVAL (Cont.)**

The required days between the last application and harvest are given in ( ) after each crop name.

CROP	PEST	RATE OZS./ACRE	USE DIRECTIONS
<b>CORN, SWEET</b> <i>(including ears and forage) (28)</i> (WESTERN US <u>ONLY</u> *)	Banks grass mite, Two-spotted spider mite, Pacific Spider Mite, Strawberry spider mite	10 - 24	<p><b>Ground Application:</b> Apply the labeled rate of <b>Ruger 1 EC</b> with conventional spray boom equipment at a minimum of 20 gallons finished spray per acre. Thorough and uniform coverage of plants is required for optimal results.</p> <p><b>Air Application:</b> Apply the labeled rate of <b>Ruger 1 EC</b> by air in a minimum of 10 gallons finished spray per acre. Applications made by air to dense foliage may not provide adequate coverage of lower leaf surfaces for sufficient control. Use of higher labeled rates may be necessary.</p> <p><b>Chemigation:</b> see details under Chemigation Systems.</p> <p><b>RESTRICTIONS:</b></p> <ul style="list-style-type: none"> <li>Do not apply more than a total of 24 ozs. of formulated product per acre per calendar year.</li> <li>Do not make more than one application per calendar year.</li> <li>Do not apply within 28 days of harvest of sweet corn or forage.</li> </ul> <p>*May only be applied in the Western US - west of the line defined as follows:                      TX: W of Rt. 283 and NW of Rt. 377                      OK: W of Rt. 281/183                      KS, NE, SD, ND: W of Rt. 281</p>
<b>CHRISTMAS TREE, CHRISTMAS TREE PLANTATIONS</b>	Pacific Spider Mite, Spruce Spider Mite, Two-spotted Spider Mite	12 - 24	<p><b>Ground Application:</b> Apply at labeled rates</p> <p><b>Air application:</b> Apply in 2-10 gallons finished spray per acre. For best coverage, apply in two opposing passes of 5 gallons each.</p> <p><b>Chemigation:</b> see details under Chemigation Systems.</p> <p><b>RESTRICTIONS:</b></p> <ul style="list-style-type: none"> <li>Do not make more than one application per calendar year.</li> </ul>
<b>SMALL FRUIT VINE CLIMBING SUBGROUP, EXCEPT FUZZY KIWIFRUIT 13-07F (7)</b> Amur river grape; gooseberry; grape; kiwifruit, hardy; maypop; schisandra berry; cultivars, varieties, and/or hybrids of these	Tetranychid Mites (such as European Red Mite and Two- spotted Spider Mite), Pacific spider mite, Willamette mite	12 - 24	<p><b>Ground Application:</b> Apply at labeled rates. Use sufficient volume of water to obtain complete coverage but not less than 20 gallons per acre.</p> <p><b>Air Application:</b> apply a minimum of 10 gallons finished spray per acre.</p> <p><b>Chemigation:</b> see details under Chemigation Systems.</p> <p><b>RESTRICTIONS:</b></p> <ul style="list-style-type: none"> <li>Do not make more than one application per calendar year.</li> <li>Do not apply more than 24 ozs. of formulated product per acre per calendar year.</li> </ul>
<b>GREENHOUSE TOMATOES (1)</b>	Tetranychid Mites (such as European Red Mite and Two-spotted Spider Mite)	12 - 24	<p>Use sufficient volume of water to obtain complete coverage but not less than 20 gallons per acre.</p> <p><b>RESTRICTIONS:</b></p> <ul style="list-style-type: none"> <li>Do not make more than one application per calendar year.</li> <li>Do not apply more than 24 ozs. of formulated product per acre per calendar year.</li> </ul>
<b>HOPS (30)</b>	Tetranychid Mites (such as Two-spotted spider mite)	12 - 24	<p><b>Ground Application:</b> Apply a minimum of 20 gallons of finished spray per acre.</p> <p><b>Air Application:</b> Use sufficient volume of water to obtain complete coverage but not less than 10 gallons per acre.</p> <p><b>RESTRICTIONS:</b></p> <p>Do not make more than one application per calendar year.                      Do not apply more than 24 ozs. per acre per calendar year.</p>
<b>NON-BEARING TREE FRUITS and NUTS, CITRUS, and VINES (FIELD GROWN, NURSERY, GREENHOUSE, SHADEHOUSE)</b> <i>Non-bearing crops are perennial crops that will not produce a harvestable raw agricultural commodity during the season of application</i>	Citrus Red Mite, European Red Mite, Two-spotted Spider Mite, McDaniel Spider Mite, Pacific Spider Mite, Six-spotted Mite, Texas Citrus Mite	12 - 24	<p><b>Ground Application:</b> Apply at labeled rates</p> <p><b>Air Application:</b> apply a minimum of 5 gallons finished spray per acre.</p> <p><b>Chemigation:</b> see details under Chemigation Systems.</p> <p><b>RESTRICTIONS:</b></p> <ul style="list-style-type: none"> <li>Do not make more than one application per calendar year.</li> </ul>

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**PREHARVEST INTERVAL (Cont.)**

The required days between the last application and harvest are given in ( ) after each crop name.

<b>CROP</b>	<b>PEST</b>	<b>RATE OZS./ACRE</b>	<b>USE DIRECTIONS</b>
<b>PEPPER/ EGGPLANT SUBGROUP 8-10B (1)</b> African eggplant; bell pepper; eggplant; martynia; nonbell pepper; okra; pea eggplant; pepino; roselle; scarlet eggplant; cultivars, varieties, and/or hybrids of these	Tetranychid Mites (such as Two-spotted spider mite), Pacific spider mite, Strawberry spider mite	12 - 24	<b>Ground Application:</b> Apply a minimum of 20 gallons of finished spray per acre. <b>Air Application:</b> apply a minimum of 2 gallons finished spray per acre. <b>Chemigation:</b> see details under Chemigation Systems.
			<b>RESTRICTIONS:</b> <ul style="list-style-type: none"> <li>Do not make more than one application per calendar year.</li> <li>Do not apply more than 24 ozs. of formulated product per acre per calendar year.</li> </ul>
<b>POME FRUIT GROUP 11- 10 (28)</b> Apple; azarole; crabapple; loquat; mayhaw; medlar; pear; pear, Asian; quince; quince, Chinese; quince, Japanese; tejocote; cultivars, varieties, and/or hybrids of these	European red mite, Two-spotted spider mite, McDaniel spider mite, Pacific spider mite, Willamette mite	12 - 24	<b>Ground Application:</b> Use sufficient volume of water to obtain complete coverage but not less than 20 gallons per acre. <b>Air Application:</b> Use sufficient volume of water to obtain complete coverage but not less than 10 gallons per acre. <b>Chemigation:</b> see details under Chemigation Systems.
			<b>RESTRICTIONS:</b> <ul style="list-style-type: none"> <li>Do not make more than one application per calendar year.</li> <li>For D'Anjou or Bosc pear varieties, use higher labeled rates (16-24 ozs./acre).</li> </ul>
<b>POTATOES (21)</b> (WESTERN US <u>ONLY</u> *)	Two-spotted Spider Mites; Potato Psyllid	12 - 24	<b>Ground Application:</b> Apply at recommended rates <b>Air Application:</b> Apply a minimum of 5 gallons finished spray per acre. <b>Chemigation:</b> see details under Chemigation Systems.
			<b>RESTRICTIONS:</b> <ul style="list-style-type: none"> <li>Do not make more than one application per calendar year.</li> <li>Do not apply more than a total of 24 ozs. of formulated product per acre per calendar year.</li> </ul> *May only be applied in the Western US - west of the line defined as follows: TX: W of Rt. 283 and NW of Rt. 377 OK: W of Rt. 281/183 KS, NE, SD, ND: W of Rt. 281
<b>SORGHUM (30)</b> (Western US only, including Oklahoma and Texas*)	Banks grass mite, Two-spotted spider mite	10 - 24	<b>Ground Application:</b> Apply the labeled rate of <b>Ruger 1 EC</b> by ground equipment at 15 - 20 GPA. <b>Air Application:</b> Apply the labeled rate of <b>Ruger 1 EC</b> by air in a minimum of 5 GPA. Applications made by air to dense foliage may not provide adequate coverage of lower leaf surfaces for sufficient control. Use of higher labeled rates may be necessary. <b>Chemigation:</b> see details under Chemigation Systems
			<b>RESTRICTIONS:</b> <ul style="list-style-type: none"> <li>Do not apply more than a total of 24 ozs. of formulated product per acre per calendar year.</li> <li>Do not make more than one application per calendar year.</li> </ul> *May only be applied in the Western US - west of the line defined as follows: KS, NE, SD, ND: W of Rt. 281 Entire States of OK and TX included for use
<b>STONE FRUITS GROUP (7)</b> (including Plums)	European red mite, Two-spotted spider mite, McDaniel spider mite, Strawberry spider mite, Pacific spider mite, Pecan leaf scorch mite, Willamette mite	12 - 24	<b>Ground Application:</b> Apply a minimum of 20 gallons finished spray per acre. <b>Air Application:</b> Apply a minimum of 10 gallons finished spray per acre. <b>Chemigation:</b> see details under Chemigation Systems.
			<b>RESTRICTIONS:</b> <ul style="list-style-type: none"> <li>Do not make more than one application per calendar year.</li> </ul>
<b>SUGAR BEETS (45)</b> (WESTERN US <u>ONLY</u> *)	Banks grass mite, Two-spotted spider mite	12 - 24	Apply at the first sign of mites before populations begin to build. <b>Ground Application:</b> Apply the labeled rate of <b>Ruger 1 EC</b> by ground equipment at 15 - 20 GPA. <b>Air Application:</b> Apply the labeled rate of <b>Ruger 1 EC</b> by air in a minimum of 5 GPA. Applications made by air to dense foliage may not provide adequate coverage of lower leaf surfaces for sufficient control. Use of higher labeled rates may be necessary. <b>Chemigation:</b> see details under Chemigation Systems on Section 3 label.
			<b>RESTRICTIONS:</b> <ul style="list-style-type: none"> <li>Do not apply more than a total of 24 ozs. of formulated product per acre per calendar year.</li> <li>Do not make more than one application per calendar year.</li> </ul> *May only be applied in the Western US - west of the line defined as follows: TX: W of Rt. 283 and NW of Rt. 377 OK: W of Rt. 281/183 KS, NE, SD, ND: W of Rt. 281

*Continued*



## PREHARVEST INTERVAL (Cont.)

The required days between the last application and harvest are given in ( ) after each crop name.

CROP	PEST	RATE OZS./ACRE	USE DIRECTIONS
<b>TREE NUTS GROUP AND PISTACHIOS (7)</b>	European red mite, Two-spotted spider mite, McDaniel spider mite, Strawberry spider mite, Pacific spider mite, Pecan leaf scorch mite, Willamette mite, Citrus Red Mite	12 - 24	<b>Ground Application:</b> Apply a minimum of 20 gallons finished spray per acre. <b>Air Application:</b> Apply a minimum of 5 gallons finished spray per acre. <b>Chemigation:</b> see details under Chemigation Systems.
	<b>RESTRICTIONS:</b> • Do not make more than one application per calendar year.		
<b>WHEAT, including emmer wheat and triticale (14)</b> (West of the Rockies)	Banks grass mite	10 - 24	Apply at the first sign of mites before populations begin to build. <b>Ground Application:</b> Apply the labeled rate of <b>Ruger 1 EC</b> by ground equipment at 15 – 20 GPA. <b>Air Application:</b> Apply the labeled rate of <b>Ruger 1 EC</b> by air in a minimum of 5 GPA. Applications made by air to dense foliage may not provide adequate coverage of lower leaf surfaces for sufficient control. Use of higher labeled rates may be necessary. <b>Chemigation:</b> see details under Chemigation Systems.
	<b>RESTRICTIONS:</b> • Do not make more than one application per calendar year. • Do not apply after the boot stage of growth. • Do not harvest hay or forage for at least 14 days after application. • Do not apply more than a total of 24 ozs. of formulated product per acre per calendar year.		

## STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE:** Keep this product in its tightly closed original container. Do not use or store this product near heat or open flame. Store in a cool, dry (preferably locked) area that is inaccessible to children and animals, and away from other pesticides, fertilizers, food, or feed.

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

**CONTAINER DISPOSAL:** Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Clean container 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 ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill or by other procedures approved by state and local authorities.

### FOR BULK AND MINI-BULK CONTAINERS

**CONTAINER DISPOSAL:** Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill or by other procedures approved by state and local authorities.

**CONTAINER PRECAUTIONS:** Before refilling, inspect thoroughly for damage such as cracks, punctures, bulges, dents, abrasions, and damaged or worn threads on closure devices. **REFILL ONLY WITH Ruger 1 EC.** The contents of this container cannot be completely removed by cleaning. Refilling with materials other than **Ruger 1 EC** will result in contamination and may weaken container. After filling and before transporting, check for leaks. Do not refill or transport damaged or leaking container.

**CONTAINER IS NOT SAFE FOR FOOD, FEED, OR DRINKING WATER!**

## LIMITATION OF WARRANTY AND LIABILITY

**IMPORTANT: READ BEFORE USE.** Read the entire Directions for Use, Conditions of Warranties and Limitations of Liability before using this product. If these terms and conditions are not acceptable, return the unopened product container at once. By using this product, user or buyer accepts the following Disclaimer of Warranties and Limitations of Liability. **CONDITIONS:** The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Ineffectiveness, injury, and other unintended consequences may result because of such factors as manner of use or application (including misuse), the presence of other materials, weather conditions, and other unknown factors, all of which are beyond the control of ATTICUS, LLC. To the extent consistent with applicable law, all such risks shall be assumed by the user or buyer.

**DISCLAIMER OF WARRANTIES:** To the extent consistent with applicable law, ATTICUS, LLC makes no other warranties, express or implied, of merchantability or of fitness for a particular purpose or otherwise, that extend beyond statements on this label. **LIMITATIONS OF LIABILITY:** To the extent consistent with applicable law, neither ATTICUS, LLC the manufacturer, nor the Seller shall be liable for any indirect, special, incidental or consequential damages resulting from the use, handling, application, storage, or disposal of this product. To the extent consistent with applicable law, the exclusive remedy of the user or buyer for any and all losses, injuries or damages resulting from the use, handling, application, or storage of this product, whether in contract, warranty, tort, negligence, strict liability or otherwise, shall not exceed the purchase price paid.

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