**PRECAUTIONARY STATEMENTS**

**Hazards to Humans and Domestic Animals**

**CAUTION.** Causes moderate eye and skin irritation. Avoid contact with skin, eyes or clothing. 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.

**FIRST AID**

- **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 eye.
  - Call a poison control center or doctor for treatment advice.

- **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.

**HOTLINE NUMBER**

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact the National Poison Control Hotline at 1-800-222-1222 for emergency medical treatment information.
**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Applicators and other handlers must wear:
- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks
- A NIOSH-approved particulate respirator with any R or P filter with NIOSH approval number prefix TC-84A; or a NIOSH-approved powered air purifying respirator with an HE filter with NIOSH approval number prefix TC-21C. (Repeated exposure to high concentrations of microbial proteins can cause allergic sensitization.)

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

**Engineering Controls**

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

**IMPORTANT:** When reduced PPE is worn because a closed system is being used, handlers must provide all PPE specified above for “applicators and other handlers” and have such PPE immediately available for use in an emergency, such as a spill or equipment breakdown.

**USER SAFETY RECOMMENDATIONS**

Users should
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

**Environmental Hazards**

For terrestrial uses: Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash waters or rinsate.

**APPLICATION**

**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 (REI). 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 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, is:
- Coveralls
- Waterproof gloves
- Shoes plus socks

**PRODUCT INFORMATION**

**SHAKE WELL BEFORE USING**

HELICOVEX® acts very specifically against larvae of Helicoverpa sp., such as the corn earworm, Helicoverpa zea (also known as cotton bollworm, tomato fruitworm), the tobacco budworm (Helicoverpa/ Heliothis virescens) and the Old World bollworm (Helicoverpa armigera). After ingestion by the larva, the virus multiplies within the cells of the host insect causing a fatal infection. Rapid virus multiplication within the host cells results in cell destruction and death of the organism, typically within 3 – 7 days.

**Application**

Start spraying before larvae hatch from the eggs and onto young instar larvae after hatching. If moths are still flying and laying eggs, re-apply as directed in the table below. Due to certain weather conditions, such as lower temperatures, the flight, egg laying, and hatching may extend over a longer period of time making more applications necessary. Frequent applications at low rates may be more effective than one or two applications at high rates.

Use sufficient water to obtain thorough, uniform coverage. Because HELICOVEX® acts 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. Run-off should be avoided. Helicovex is rainfast as soon as it has dried.

**For greenhouse applications:** the re-application interval can be extended to 7 – 14 days, because of reduced UV-radiation. However, at fast plant growth make sure to cover young tissue with intervals of 6 – 8 days.

**For chemigation applications:** see “CHEMIGATION” section of this label for guidance.
**CHEMIGATION**

Apply this product only through pressurized sprinkler irrigation systems (impact or micro sprinklers overhead boom, solid set, lateral move, end tow, side-roll, center pivot, or hand move, including mist-type systems).

**AERIAL APPLICATIONS**

Apply in a minimum of 5 gallons of spray solution per acre by aircraft spray equipment. Aerial applications made to dense canopies may not provide sufficient coverage of lower leaves to provide acceptable pest control. Under these conditions, the higher rate of HEICOVEX® Insecticide specified in the crop specific tables within the Directions for Use section of this label may be necessary for optimum pest control. If application in water by air during hot and dry conditions cannot be avoided, increase application volume and/or use an anti-evaporation additive (such as an emulsifiable oil) to improve coverage.

**COMMENTS**

It is not necessary to add feeding stimulants, surfactant/wetting agents, or other adjuvants, though use of a non-ionic or oil-based spreader/sticker and ultraviolet screening agent may enhance the performance of this product.

**CHEMIGATION**

Apply this product only through pressurized sprinkler irrigation systems (impact or micro sprinklers overhead boom, solid set, lateral move, end tow, side-roll, center pivot, or hand move, including mist-type systems).

Do not apply this product through any other type of irrigation system.

Lack of effectiveness can result from non-uniform distribution of treated water.

If you have questions about calibration, contact State Extension Service specialists, equipment manufacturers or other experts.

Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.

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.

Public water systems 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, 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 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.

**CROPS**

<table>
<thead>
<tr>
<th>CROPS</th>
<th>APPLICATION RATE</th>
<th>APPLICATION METHOD</th>
<th>EQUIPMENT</th>
<th>COMMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Root and tuber vegetables</em> such as potato, sweet potato, beet, sugar beet; <em>Bulb vegetables</em> such as onion, garlic, leek; <em>Leafy vegetables</em> such as celery, lettuce, escarole; <em>Brassica (cole) leafy vegetables</em> such as broccoli, cauliflower, cabbage; <em>Legume vegetables</em> such as pea, soybean, bean; <em>Foliage of legume vegetables</em> such as soybean; <em>Fruiting vegetables</em> such as eggplant, tomato, pepper, okra; <em>Cucurbit vegetables</em> such as cucumber, watermelon; <em>Citrus fruits;</em> <em>Berries and small fruits</em> such as strawberry, grape; <em>Oilseeds</em> such as flax seed, sunflower, cottonseed; <em>Cereal grains</em> such as sweet corn, corn, wheat, rice, sorghum; <em>Nongrass animal feeds</em> such as alfalfa; <em>Herbs and spices;</em> <em>Tree nuts;</em> <em>Other crops</em> such as Asparagus; Peanut; Tobacco; Hops and other specialty crops; <em>Floriculture and Border plants</em> such as ornamentals and flowers</td>
<td></td>
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<tr>
<td>0.5 – 2.5 fl. oz. per acre</td>
<td>Sprayer, Aircraft</td>
<td>Sprayer, Sprinkler</td>
<td>Repeat application every 6 – 8 sunny days (counting 2 partially sunny days as 1 sunny day) if monitoring indicates that reaplication is necessary. Lower rates may be used during vegetative stages of the crop, when tank mixed with other insecticides or when pest pressure is low. Use the higher rates when flowers, fruits or other harvested structures of the plant are present or when infestation becomes strong. Sweet corn/corn/seedcorn: use 0.5 to 1.25 fl. oz./acre every 3 days during silking. Before and after silking, standard application rate and interval is suitable. Cover the whole larval hatching period of the treated pest until harvest.</td>
<td></td>
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</tbody>
</table>

*Not for use in California*
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.

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

Remove scale, pesticide residues, and other foreign matter from the chemical supply tank and injector system and flush with clean water before use. Failure to provide a clean tank, free of scale or residues may reduce effectiveness of this product.

Sprinkler Chemigation

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 (i.e., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

7. Dilute the product in water following the label mixing directions. It may be premixed in a supply tank with water, fertilizer or other appropriate tank-mixed agricultural chemicals. Agitation is necessary. Application should be continuous in sufficient water to apply the recommended rate evenly to the entire treated area.

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

**STORAGE AND DISPOSAL**

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

**Pesticide storage**

Store this product in original sealed container in a cool, dry place inaccessible to children and pets. Storing the product at 41 °F (5°C). Helicovex can be used for 2 years without loss of efficacy. Storing the product under freezing temperatures will extend its shelf life. Bioactivity may be impaired by storage above 86 °F (30°C).

**Pesticide disposal**

To avoid wastes, use all material in this container by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (often such programs are run by state or local governments or by industry).

**Container handling**

Non-refillable 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 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 puncture and dispose of in a sanitary landfill, or by incineration. Do not burn, unless allowed by State and local ordinances. If burned, stay out of smoke.

**WARRANTY**

Andermatt Biocontrol AG warrants that the material contained herein conforms to the description on the label and is reasonably fit for the purposes referred to in the directions for use. Timing and method of application, weather, watering practices, nature of soil, the insect problem, condition of the crop, incompatibility with other chemicals not specifically recommended and other influencing factors in the use of this product are beyond the control of the seller. To the extent consistent with applicable law, buyer assumes all risks of use, storage or handling of this material not in strict accordance with directions given herein. To the extent consistent with applicable law, NO OTHER EXPRESS OR IMPLIED WARRANTY OF THE FITNESS OR MERCHANTABILITY IS MADE.