

Madex[®] XLV

INSECTICIDAL VIRUS



FOR ORGANIC PRODUCTION

Active Ingredient*:

Cydia pomonella granulovirus isolate GV-0017

Other Ingredients:

Total:

*Contains a minimum of 3×10^{13} viral occlusion bodies per liter of product.

0.06%
99.94%
100.00%

Store
below
41°F

KEEP OUT OF REACH OF CHILDREN

CAUTION

SEE INSIDE PANEL FOR FIRST AID, PRECAUTIONARY STATEMENTS AND
DIRECTIONS FOR USE.

Net Contents:

Lot No.:

EPA Reg. No.: 69553-12-70051

EPA Est. No.:

Origin of Product: Switzerland

Distributed by:

Certis USA LLC
9145 Guilford Road, Suite 175
Columbia, MD 21046



Item:

Package:

ESL20230620

Ver. 20230626

This is a Specimen Label. It may not reflect the most-recent approved label for use in your state. Always refer to the label on the product packaging for approved use instructions. Please contact your Certis sales representative for more information.

FIRST AID	
If in eyes:	<ul style="list-style-type: none"> • 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 eyes. • Call a poison control center or doctor for treatment advice.
If on skin or clothing:	<ul style="list-style-type: none"> • 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. Contact the National Poison Control Hotline at 1-800-222-1222 for emergency medical treatment information. For information on this pesticide product (including general health concerns or pesticide incidents), call the National Pesticide Information Center (NPIC) at 1-800-858-7378.

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION. Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

- long-sleeved shirt and long pants
- waterproof gloves
- shoes plus socks
- protective eyewear

Mixers/loaders and applicators must wear a minimum of a NIOSH-approved particulate filtering facepiece respirator with any R or P filter; OR a NIOSH-approved powered air-purifying respirator with an HE filter. Repeated exposures to high concentrations of microbial proteins can cause allergic sensitization.

Follow the manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables exists, 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 meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR §170.607(d) and (e)], 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 be provided 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 the 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 washwater or rinsate.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its 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. 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 (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
- Protective eyewear

PRODUCT INFORMATION

MADEX® XLV acts very specifically against larvae of the Codling Moth, *Cydia pomonella*, and the Oriental Fruit Moth, *Grapholita molesta*, as a pre-harvest biological insecticide on pome fruit trees, stone fruit trees and tree nuts. MADEX® XLV contains a baculovirus that is infective to Codling Moth and Oriental Fruit Moth larvae. To be effective, deposits of MADEX® XLV must be ingested by the larvae. Thus, thorough coverage of target foliage and/or fruits where the larvae are feeding is essential. Upon ingestion, the viral occlusion bodies (OBs) dissolve in the larval midgut and release infectious virions. These infect and replicate within insect cells to infect other tissues within the larva, which stops feeding and eventually dies from massive viral infection. After death, the larva disintegrates, releasing large numbers of new OBs which may infect other Codling Moth and Oriental Fruit Moth larvae upon ingestion. Larvae mortality occurs a few days after ingestion of MADEX® XLV, depending on dosage and ambient temperature.

USE INFORMATION

SHAKE WELL BEFORE USING

Start spraying shortly before larvae hatch from the eggs or before the larvae feed their way into the fruit. Due to unfavorable weather conditions, flight, egg laying, and hatching may extend over a longer period and up to 6 applications may be needed. 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 MADEX® XLV 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. Avoid run-off. MADEX® XLV is rainfast as soon as it has dried.

Use Restriction

Do not apply this product through any type of irrigation.

MIXING AND APPLICATION INSTRUCTIONS

Mix MADEX® XLV with water and apply as a spray to fruit and foliage of trees in orchards and nurseries. Use water for mixing the spray at or near neutral pH (7) before adding MADEX® XLV.

CROP	RATE	COMMENTS
Pome and Stone fruit trees, and tree nuts including: apple, pear, quince, apricot, aprium, cherry, nectarine, peach, plum, pluot, prune, almond, walnut, and hybrids of these	0.5 - 3.0 fluid ounces of MADEX® XLV per acre, depending on pest pressure and application frequency.	Select a spray volume appropriate to tree size and density of foliage. For small trees, use 50-100 gallons of water per acre. Larger trees with denser canopies require 100-200 gallons of water per acre. Consult your local Cooperative Extension Service if you need advice about how to attain good spray coverage in your orchard. Make at least two (2) and up to six (6) applications of MADEX® XLV per Codling Moth or Oriental Fruit Moth larval generation. Target small larvae early in their life cycle. Repeat as necessary to maintain control, making no more than six (6) applications per larval generation. MADEX® XLV breaks down under direct exposure to sunlight. If moths are still flying and laying eggs, reapply after 6-8 sunny days (counting 2 partially sunny days as 1 sunny day).

MADEX® XLV may be applied up to and including the day of harvest.

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. Store at temperatures below 41°F (5°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:

Nonrefillable container. Do not reuse or refill this container. Triple rinse or pressure 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. **Pressure rinse** as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Then offer for recycling if available or puncture and dispose of in a sanitary landfill or by incineration.

WARRANTY

Certis USA LLC 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 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.