



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

August 25, 2021

Sarah Risorto
Authorized Agent to Andermatt Biocontrol AG
Andermatt USA Corporation
107 Gilbreth Parkway
Mullica Hill, NJ 08062

Subject: Non-PRIA (Pesticide Registration Improvement Act) Labeling Amendment – To Revise the Storage Conditions on the Label and Make Minor Revisions Requested by the EPA Response to the Storage Stability, Corrosion Characteristics, and Discussion of Formation of Unintentional Ingredients Term of Registration
Product Name: MADEX HP
EPA Registration Number: 69553-1
Application Date: August 17, 2020
Action Code Case No: 00142008

Dear Ms. Risorto:

The amended labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable.

This approval does not affect any terms or conditions that were previously imposed on this registration. You continue to be subject to existing terms or conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one (1) copy of the final printed labeling before you release this product for shipment with the new labeling. In accordance with 40 CFR § 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR § 152.3.

Should you wish to add/retain a reference to your company's website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by the U.S. Environmental Protection Agency (EPA). If the website is false or misleading, the product will be considered to be misbranded and sale or distribution of the product is unlawful under FIFRA section 12(a)(1)(E). 40 CFR § 156.10(a)(5) lists examples of statements the EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims

made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the EPA find or if it is brought to our attention that a website contains statements or claims substantially differing from statements or claims made in connection with obtaining a FIFRA section 3 registration, the website will be referred to the EPA's Office of Enforcement and Compliance Assurance.

Your release for shipment of this product constitutes acceptance of these terms. If these terms are not complied with, this registration will be subject to cancellation in accordance with FIFRA section 6.

As requested by the EPA in a letter dated August 17, 2020, you have removed the reference to storage under frozen conditions extending the product's shelf life on both Sublabel A and Sublabel B. Thus, you have fulfilled term #4 of the January 8, 2013, MADEX HP Registration Notice.

If you have any questions, please contact Joseph Mabon by phone at (703) 347-0177 or via email at mabon.joseph@epa.gov.

Sincerely,



Alexandra Boukedes, Acting Senior Regulatory Advisor
Microbial Pesticides Branch
Biopesticides and Pollution
Prevention Division (7511P)
Office of Pesticide Programs

Enclosure

MADEX HP

Insecticidal Virus

Sublabel A: Agricultural Use

Sublabel B: Residential Use

Active Ingredient*:

Cydia pomonella granulovirus isolate V22.....0.06%

Other Ingredients:.....99.94%

Total:.....100.00%

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

KEEP OUT OF REACH OF CHILDREN

CAUTION

EPA Reg. No.: 69553-1

EPA Est. No.: 70051-CA-001

Origin of Product: Switzerland

Manufactured by: Andermatt Biocontrol AG

Stahlermatten 6

CH-6146 Grossdietwil

Switzerland

Distributed in the US by:

Certis USA LLC

9145 Guilford Road, Suite 175

Columbia MD 21046

ACCEPTED

Aug 25, 2021

Under the Federal Insecticide, Fungicide
and Rodenticide Act as amended, for the
pesticide registered under

EPA Reg. No. 69553-1

SUBLABEL A: Agricultural Use

MADEX HP

Biological Insecticide for Control of the Codling Moth and Oriental Fruit Moth

 FOR ORGANIC PRODUCTION



Active Ingredient*:

| | |
|--|---------|
| <i>Cydia pomonella</i> granulovirus isolate V22..... | 0.06% |
| Other Ingredients: | 99.94% |
| Total: | 100.00% |

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

KEEP OUT OF REACH OF CHILDREN

CAUTION

SEE SIDE/INSIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

Net Contents:

Lot No.:

EPA Reg. No. 69553-1

EPA Est. No. 70051-CA-001

Origin of Product: Switzerland

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PRECAUTIONARY STATEMENTS
Hazards To Humans and Domestic Animals

CAUTION. Harmful if swallowed, absorbed through skin, or inhaled. Avoid contact with skin, eyes or clothing, and breathing spray mist. Causes moderate eye irritation. 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 swallowed: | <ul style="list-style-type: none"> • Call a poison control center or doctor immediately 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 to an unconscious person. |
| 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. |
| If inhaled: | <ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. • Call a poison control center or doctor for treatment advice. |
| 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 eye. • Call a poison control center or doctor for treatment advice. |
| HOTLINE NUMBER | |
| <p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For general information on product use, etc., call the National Pesticide Information Center at 1-800-858-7378. For emergencies, call the National Poison Control Hotline at 1-800-222-1222.</p> | |

| PERSONAL PROTECTIVE EQUIPMENT (PPE) |
|--|
| <p>Applicators and other handlers must wear:</p> <ul style="list-style-type: none"> • long-sleeved shirt and long pants • waterproof gloves or chemical-resistant gloves • shoes plus socks <p>Mixers/loaders and applicators must wear 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 exposures to high concentrations of microbial proteins can cause allergic sensitization.</p> <p>Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE</p> |

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 170.240(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 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 break-down.

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. 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.

For early entry into 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, wear:

- Coveralls
- Waterproof gloves
- Shoes plus socks

PRODUCT INFORMATION

MADEX HP acts very specifically against larvae of the apple codling moth, *Cydia pomonella*, and the Oriental fruit moth, *Grapholita molesta*, as a pre-harvest biological insecticide on pome and stone fruit trees including apple, quince, pear, peach, nectarine, apricot, plum, cherry, walnut, almond, pluot, and aprium. 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.

USE INFORMATION

Start spraying shortly before larvae hatch from the eggs and before the larvae feed their way into the fruit. In general, one to two sprays per generation are sufficient. Due to unfavorable weather conditions, flight, egg laying, and hatching may extend over a longer period of time 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 Restriction

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

MIXING AND APPLICATION INSTRUCTIONS

Mix MADEX HP with water and apply as a spray to fruit and foliage of trees in orchards and nurseries. Use water at or near neutral pH (7).

| CROP | RATE | COMMENTS |
|---|--|--|
| Pome and Stone fruit trees including apple, quince, pear, peach, nectarine, apricot, plum, prunes cherry, walnut, almond, pluot, and aprium | 0.5 - 3.0 fluid ounces per acre, depending on pest pressure and application frequency. | <p>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 per acre.</p> <p>Consult your local Cooperative Extension Service if you need advice about how to attain good spray coverage in your orchard.</p> <p>Make at least two (2) applications of MADEX HP per codling moth or Oriental fruit moth larval generation. Target small larvae early in their life cycle. Repeat as necessary to maintain control. MADEX HP 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).</p> |

MADEX HP can 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). 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:

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 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. 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

Master Label

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.

Sublabel B: Residential Use

MADEX HP

Biological Insecticide for Control of the Codling Moth and Oriental Fruit Moth

 **FOR ORGANIC GARDENING**



Active Ingredient*:

| | |
|--|---------|
| <i>Cydia pomonella</i> granulovirus isolate V22..... | 0.06% |
| Other Ingredients: | 99.94% |
| Total: | 100.00% |

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

KEEP OUT OF REACH OF CHILDREN

CAUTION

SEE SIDE/INSIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

Net Contents:

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PRECAUTIONARY STATEMENTS**Hazards To Humans and Domestic Animals**

CAUTION. Harmful if swallowed, absorbed through skin, or inhaled. Avoid contact with skin, eyes or clothing, and breathing spray mist. Causes moderate eye irritation. 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 swallowed: | <ul style="list-style-type: none"> • Call a poison control center or doctor immediately 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 to an unconscious person. |
| 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. |
| If inhaled: | <ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. • Call a poison control center or doctor for treatment advice. |
| 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 eye. • Call a poison control center or doctor for treatment advice. |
| HOTLINE NUMBER | |
| <p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For general information on product use, etc., call the National Pesticide Information Center at 1-800-858-7378. For emergencies, call the National Poison Control Hotline at 1-800-222-1222 for emergency medical treatment information.</p> | |

ENVIRONMENTAL HAZARDS

To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid run off to water bodies or drainage systems.

DIRECTIONS FOR USE

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

PRODUCT INFORMATION

MADEX HP acts very specifically against larvae of the apple codling moth, *Cydia pomonella*, and the Oriental fruit moth, *Grapholita molesta*, as a pre-harvest biological insecticide on pome and stone fruit trees including apple, quince, pear, peach, nectarine, apricot, plum, cherry, walnut, almond, pluot, and aprium. 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.

USE INFORMATION

Start spraying shortly before larvae hatch from the eggs and before the larvae feed their way into the fruit. In general, one to two sprays per generation are sufficient. Due to unfavorable weather conditions, flight, egg laying, and hatching may extend over a longer period of time and up to 6 applications may be needed.

Use Restrictions

For use only on pome and stone fruit trees in residential settings. Not for use on trees or fruit grown for sale or other commercial use.

MIXING AND APPLICATION INSTRUCTIONS

MADEX HP must be mixed with water and applied as a spray to the fruit and foliage of pome and stone fruit trees (apple, quince, pear, peach, nectarine, apricot, plum, cherry, walnut, and almond).

Mix 1/2 teaspoon of MADEX HP per 5 gallons of water and apply directly to each tree using a hand pump sprayer or other suitable spray equipment. Spray a sufficient volume to thoroughly wet all leaves and fruit with minimal run-off or dripping.

Apply MADEX HP first in late spring or early summer, when eggs of the first generation of codling moth or Oriental fruit moth begin to hatch. Apply MADEX HP at least twice during each larval generation. When pest pressure persists, make additional applications of MADEX HP in mid- to late summer. Consult your local Cooperative Extension Service for more information about the best timing of codling moth and Oriental fruit moth sprays.

MADEX HP 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).

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE:

Keep in original container. Store away from direct sunlight, feed, or foodstuffs. Keep container tightly sealed when not in use. Store at temperatures below 41°F (5°C). Bioactivity may be impaired by storage above 86°F (30°C).

PESTICIDE DISPOSAL AND CONTAINER HANDLING:

Non-refillable container. Do not reuse or refill container.

If empty:

Place in trash or offer for recycling, if available.

If partly filled:

Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

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.