

2022-0925
2022-04-03

PMV®-01

SUSPENSION

For use in the production of greenhouse tomatoes to protect against *Pepino Mosaic Virus*

COMMERCIAL

ACTIVE INGREDIENT:

Pepino mosaic virus, Strain CH2, Isolate 1906 – not less than 5×10^5 particles/ μ L

REGISTRATION NO. 33108 *PEST CONTROL PRODUCT ACT*

KEEP OUT OF REACH OF CHILDREN

POTENTIAL SENSITIZER

CAUTION – EYE IRRITANT

READ THE LABEL AND ATTACHED BOOKLET BEFORE USING

NET CONTENTS: 1 L

Date of manufacture:

Lot No.:

Do not store this product longer than three weeks after date of manufacture

Registrant:

De Ceuster Meststoffen nv

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GENERAL INFORMATION

PMV-01 is a suspension containing a mild isolate of the *Pepino mosaic virus*, strain CH2, isolate 1906. When applied according to the label directions, PMV-01 protects greenhouse tomato plants from aggressive strains of the *Pepino Mosaic Virus* by cross-protection.

DIRECTIONS FOR USE

CROP: Greenhouse tomato

PEST/DISEASE: Pepino Mosaic Virus (Strains CH2, EU, US1 and LP)

RATE: 4-8 L/ha

SPRAY VOLUME: 160-300 L/ha

APPLICATION INSTRUCTIONS:

Use the lower rate when tomato plants are free of Pepino mosaic virus or there is a low risk of infection. Use higher rates up to 8 L/ha when rapid colonization of tomato plants is needed (e.g. when treating newly planted tomato plants adjacent to infected greenhouses or where a higher risk of *Pepino mosaic virus* is anticipated).

In all cases, the entire dose should be sprayed directly on the tomato plants.

PRE-APPLICATION INFORMATION

PMV-01 is to be applied on young tomato plants before the first cluster of flowers develops. Only plants that are free of Pepino mosaic virus may be treated with this product. PMV-01 must not be applied when there is clear, dispersed infection of the tomato crop by the Pepino Mosaic Virus.

Prior to treatment with PMV-01, samples of plant material must be obtained and sent to a laboratory for analysis to determine that the tomato plants to be treated are free of the Pepino Mosaic Virus. Contact Biobest Canada Ltd. to obtain details of these pre-application steps.

POST-APPLICATION INFORMATION

To optimize protection of tomato plants by PMV-01, conduct crop maintenance immediately after application to encourage spread of the inoculum and obtain a homogeneous colonization of the crop. This step consists of manual plant manipulation in order to slightly damage the plants and facilitate the spread and entry of the mild virus particles into the plant.

Monitor nutrient availability to tomato plants treated with PMV-01 as they may require an application of potassium to ensure proper development of fruit color.

Four to six weeks after application of PMV-01, provide plant samples to a laboratory to confirm that treated plants have been colonized by PepMV, strain CH2, isolate 1906. Contact Biobest Canada Ltd. to obtain details of these post-application steps.

RESTRICTIONS

DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

DO NOT use this product on tomato crops grown for seed production.

This product is only for use in greenhouse tomato production. DO NOT use this product in any tomato plant propagation facility (tomato nurseries). DO NOT allow transport of treated

tomato plants from the greenhouse to any other tomato production facility except for purposes of disposal (waste processing) and where there is no possibility of contaminating untreated plants in production.

The *Pepino mosaic virus* (isolate 1906) may infect other plants from the Solanaceae family. DO NOT apply this product to other crops within the Solanaceae family (e.g. pepper, potato, eggplant) and basil.

DO NOT apply this product using ultra-low volume (ULV) application equipment such as electrostatic sprayers or fogging machines.

DO NOT apply this product through any type of irrigation equipment.

DO NOT use this product in a tank-mix with other pesticides.

MIXING AND SPRAYING PROCEDURE

Shake the product thoroughly before use and agitate the spray solution well after dilution. Monitor the temperature carefully during application to ensure the solution never exceeds 15°C.

This can be done by using cold water (and ice on hot days) for making the spray solution.

It is also advisable to only prepare a spray solution that can be applied within 2 hours.

Clean the filters often and agitate the spray solution every 2 hours.

PMV-01 may be applied with a spray robot typically used in greenhouse tomato production or with portable greenhouse sprayers with only one nozzle at the end of the spray boom.

Rinse the empty container with water, add the rinsate into the tank and mix it with the spray solution.

PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN. May cause sensitization. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist. Wear waterproof gloves, long-sleeved shirt, long pants, eye goggles, socks with shoes and wear a minimum of a NIOSH-approved particulate filtering facepiece respirator with any N, R, or P filter during mixing, loading, application, clean-up and repair. Wash thoroughly with soap and water after handling the product.

Remove contaminated clothing and follow manufacturer's directions for cleaning/maintaining personal protective equipment (PPE) before reuse.

RESTRICTED ENTRY INTERVAL (REI):

DO NOT enter or allow worker entry into treated areas for 4 hours or until sprays have dried, unless wearing waterproof gloves, a long-sleeved shirt, long pants and socks with shoes.

FIRST AID

If swallowed: Call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15–20 minutes. Call a poison control centre 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 by mouth-to-mouth, if possible. Call a poison control centre or doctor for further 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 eye. Call a poison control centre or doctor for treatment advice.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

TOXICOLOGICAL INFORMATION

Treat symptomatically.

ENVIRONMENTAL HAZARDS

DO NOT allow effluent or runoff from greenhouses containing this product to enter lakes, streams, ponds or other waters.

STORAGE

Store product in original container only, away from food or feed. Not for use or storage in or around the home. Keep container closed. Keep in a separate refrigerator at 4 °C.

Do not store longer than three weeks after date of manufacture.

DISPOSAL

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Follow provincial instruction for any required additional cleaning of the container prior to its disposal.
3. Make the empty container unsuitable for further use.
4. Dispose of the container in accordance with provincial requirements.

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

NOTICE TO USER

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label.