

## **BULB VEGETABLES - SUBGROUP 3-07A**

### General Information

### PRODUCT INFORMATION

#### MOVENTO:

- Is a suspension concentrate formulation and is active primarily by ingestion against immature target pest life stages. In addition, fertility of adult female target pests, such as aphids and whiteflies, may be reduced.
- Can be applied by air, ground equipment or through chemigation as a preventative treatment or timed to coincide with an early threshold level in developing insect populations.
- Must be tank-mixed with a spray adjuvant / additive having spreading and penetrating properties to maximize leaf uptake and systemicity of the active ingredient within treated plants; please contact your local Bayer CropScience representative or PCA for specific recommendations by crop.
- It is widely known that tank mixtures and/or sequential treatments of horticultural spray oil with Captan and/or sulfur may cause adverse plant compatibility in tree and vine crops; including MOVENTO in this tankmix and/or sequential treatment scenario is not recommended.
- Following application to plant foliage, MOVENTO is fully systemic, moving through phloem and xylem to new shoot, leaf and root tissues; systemicity and efficacy may be hindered during periods of cold temperatures, under drought conditions, or when plants are not actively growing.

#### APPLICATION INSTRUCTIONS

- Foliar spray applications must be made using properly calibrated ground sprayers, fixed- or rotary-winged aircraft or through properly designed, sprinkler-type, chemigation equipment (See Chemigation Application section). Sufficient spray volume, based on the size and density of the treated crop, must be utilized that allows for good coverage of both young and old foliage without runoff or collection

of spray solution on leaf margins, fruit, or other plant tissues. For optimum control of target pests on tree and vine crops, treating both sides of the plant during the same application period is recommended; for practices such as alternate row middles or tops and bottoms, both sides of the trees or vines must be treated within a 72-hour period. Good coverage will help ensure maximum uptake by leaf surfaces and optimum systemicity within the plant.

° Ground applications must be made in a minimum of 50 gallons per acre on tree and vine crops; 15 gallons of water per acre on potato and vegetable crops.

° Aerial applications must be made in a minimum of 10 gallons of water per acre in tree and vine crops, and 5 gallons of water per acre in vegetable, and potato crops. The higher dosage of MOVENTO within the crop/ pest-specific section may be necessary for optimum control for aerial applications.

#### USE RESTRICTIONS

- Use in enclosed structures, such as greenhouses or planthouses, is not permitted.
- For annual crops where multiple plantings can occur within a 12-month period, do not apply more than 30 fluid ounces (0.47 lb ai) of MOVENTO per given acre of land within a 12-month period unless specified otherwise within a crop-specific section for a given crop.
- Sufficient leaf tissue must be present for uptake and translocation of this product; due to this requirement, do not apply prior to petal-fall on pome fruits, stone fruits, and tree nut crops.
- The use of Induce adjuvant in combination with MOVENTO on grape, pome fruits, and stone fruits is prohibited when fruit is present due to adverse plant compatibility on harvested commodities. The tank-mixture of MOVENTO with an adjuvant / additive having sticking properties or crop protection product formulations containing built-in stickers have been shown to interfere with leaf uptake and should be avoided.
- Do not apply when winds are greater than 15 mph and avoid gusty and windless conditions.

Refer to the specific use directions and restrictions in each Crop, Crop Group or Crop Subgroup table.

## INSECT RESISTANCE MANAGEMENT RECOMMENDATIONS

MOVENTO contains an active ingredient with a mode of action classified as a Group 23 Insecticide, i.e., a lipid biosynthesis inhibitor (LBI). To delay insecticide resistance:

- Some insects are known to develop resistance to insecticides after repeated use. As with any insecticide, the use of this product should conform to resistance management strategies established for the use area.
- Bayer CropScience strongly encourages that MOVENTO, applied alone or in tankmix combination with another Group 23 product, be applied in a block rotation or windowed approach with products from other chemical classes having a different mode of action before using additional applications of Group 23 insecticides against the same target pest. Using a block rotation or windowed approach, along with other IPM practices, is considered an effective use strategy for preventing or delaying an insect pest's ability to develop resistance to a given class of chemistry.

Contact your local extension specialist, certified crop advisor, and/or Bayer CropScience representative for additional resistance management or IPM recommendations. Also, for more information on Insect Resistance Management (IRM), visit the Insecticide Resistance Action Committee (IRAC) on the web at <http://irac-online.org>.

### Airblast (Air Assist) Applications for Tree Crops and Vineyards

Airblast sprayers carry droplets into the canopy of trees/vines via a radial, or lateral directed air stream. The following drift management practices should be followed:

- Adjust deflectors and aiming devices so that spray is only directed into the canopy;
- Block off upward pointed nozzles when there is no overhanging canopy;
- Use enough air volume to penetrate the canopy and provide good coverage;
- Do not allow the spray to go beyond the edge of the cultivated area (i.e., turn off sprayer when turning at end rows);

- For applications to the outside rows, only spray inward, toward the orchard/grove.

### Aerial Applications

- Mount the spray boom on the aircraft so as to minimize drift caused by wing tip vortices.
- The minimum practical boom length should be used, and should not exceed 75% of the wing span or rotor diameter.
- Applications should not be made at a height greater than 10 feet above the top of the largest plants unless a greater height is required for aircraft safety.

### CROP USE DIRECTIONS

Apply specified dosage of MOVENTO early in the infestation as the population begins to develop or at early threshold for the target insect pest. Apply higher dosages specified within the crop specific sections when applied as a preventive application, for moderate to heavy insect pressure, or where longer residual control is desired. Degree of efficacy against labeled pests will be determined, in part, by the stage of pest development at application and infestation level of those pests.

Apply in adequate water for uniform coverage. For tree and vine crops, apply in a minimum of 50 GPA for conventional ground airblast sprayer, 30 GPA for high air velocity, low volume or air curtain sprayers, 10 GPA for aerial application; rates for tree and vine crops are based on full-size mature trees and vines. For vegetable and potato crops, apply in a minimum of 15 GPA by ground and 5 GPA by aerial application. MOVENTO may also be applied through overhead irrigation systems as designated in the CHEMIGATION section of the label under Chemigation Application Instructions.

MOVENTO must be tank-mixed with a spray adjuvant / additive having spreading and penetrating properties to maximize leaf uptake and systemicity of the active ingredient within treated plants; please contact your local Bayer CropScience representative or PCA for specific recommendations by crop.

However, the use of Induce® adjuvant in combination with MOVENTO on grape, pome fruits, and stone fruits is prohibited when fruit is present due to adverse plant compatibility on harvested commodities. The tank-mixture of MOVENTO with an

adjuvant / additive having sticking properties or crop protection product formulations containing built-in stickers have been shown to interfere with leaf uptake and should be avoided. Sufficient leaf tissue must be present for uptake and translocation of this product; due to this requirement, do not apply prior to petal-fall on pome fruits, stone fruits, and tree nut crops.

It is widely known that tank mixtures and/or sequential treatments of horticultural spray oil with Captan and/or sulfur may cause adverse plant compatibility in tree and vine crops; including MOVENTO in this tankmix and/or sequential treatment scenario is not recommended.

## Limitations, Restrictions, and Exceptions

### BULB VEGETABLES

#### Foliar Application Restrictions:

Minimum interval between applications: 7 days

For Onions, Leeks, and Chives grown for seed production, do not apply 4 months prior to bloom, during bloom or until after petal fall.

#### Method

[Broadcast/Foliar Air](#)

[Broadcast/Foliar Ground](#)

#### Pre-Harvest Interval

3 days

#### Rates

[field\\_rates 0](#)

[field\\_rates 1](#)

•

#### Restricted Entry Interval

24 hours

#### Timings

[Early in the infestation as the population begins to develop or at early threshold for the target insect pest.](#)