

# **FOR CONTROL OR SUPPRESSION OF BLACKBERRY (BRIARS), VINES AND SUSCEPTIBLE BROADLEAF WEEDS IN NEWLY PLANTED LONGLEAF PINE PLANTATIONS - NORTH CAROLINA**

## General Information

Milestone VM specialty herbicide may be applied by aerial or ground equipment to control susceptible weeds and certain woody plants, including invasive and noxious weeds on non-cropland areas including industrial sites, rights-of-way (including roadsides, electric utility and communication transmission lines, pipelines, and railroads), non-irrigation ditch banks, natural areas (including wildlife management areas, wildlife openings, wildlife habitats, recreation areas, campgrounds, trailheads and trails), and grazed areas in and around these sites without injury to most grasses.

It is permissible to treat non-irrigation ditch banks, seasonally dry wetlands (such as flood plains, deltas, marshes, swamps, or bogs) and transitional areas between upland and lowland sites. Milestone VM can be used to the waters edge. Do not apply directly to water and take precautions to minimize spray drift onto water.

## Use Precautions and Restrictions

This product is not intended for reformulation or repackaging into other end-use products.

**Maximum Application Rate:** On all labeled use sites do not broadcast apply more than 7 fl oz per acre of Milestone VM per year. The total amount of Milestone VM applied broadcast, as a re-treatment, and/or spot treatment cannot exceed 7 fl oz per acre per year. Spot treatments may be applied at an equivalent broadcast rate of up to 0.22 lb acid equivalent (14 fl oz of Milestone VM) per acre per annual growing season; however, not more than 50% of an acre may be treated at that rate. Do not apply more than a total of 0.11 lb acid equivalent (7 fl oz per acre of Milestone VM) per annual growing season as a result of broadcast, spot or repeat applications.

**Avoiding Injury to Non-Target Plants:** Do not aerially apply Milestone VM within 50 feet of a border downwind (in direction of wind movement), or allow spray drift to

come in contact with, any broadleaf crop or other desirable broadleaf plants, including, but not limited to, alfalfa, cotton, dry beans, flowers, grapes, lettuce, potatoes, radishes, soybeans, sugar beets, sunflowers, tobacco, tomatoes or other broadleaf or vegetable crop, fruit trees, ornamental plants, or soil where sensitive crops are growing or will be planted. Avoid application under conditions that may allow spray drift because very small quantities of spray may seriously injure susceptible crops. Read and consider the “Precautions for Avoiding Spray Drift and Spray Drift Advisory” at the end of the label to help minimize the potential for spray drift.

Milestone VM is highly active against many broadleaf plant species. Do not use this product on areas where loss of desirable broadleaf plants, including legumes, cannot be tolerated.

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

Do not contaminate water intended for irrigation or domestic purposes. Do not treat inside banks or bottoms of irrigation ditches, either dry or containing water, or other channels that carry water that may be used for irrigation or domestic purposes.

Milestone VM should not be applied on residential or commercial lawns or ornamental plantings.

Trees adjacent to or in a treated area can occasionally be affected by root uptake of Milestone VM. Do not apply Milestone VM within the root zone of desirable trees unless such injury can be tolerated. Use special caution near roses, and leguminous trees such as locusts, redbud, mimosa, and caragana.

Seeding grasses:

- Preemergence: Milestone VM may be applied in the spring or early summer, depending on the target weed species, and grass planted the following fall or winter when appropriate for the grass species being planted.

- Postemergence: During the season of establishment, Milestone VM should be applied only after perennial grasses are well established (have developed a secondary root system and are vigorous. Most perennial grasses are tolerant to Milestone VM at this stage of development. Milestone VM may suppress certain established grasses, such as smooth brome grass (*Bromus inermis*), especially when

plants are stressed by adverse environmental conditions. Plants should recover from this transient suppression with the onset of environmental conditions favorable to grass growth and upon release from weed competition.

**Seeding Legumes or Susceptible Wildflowers:** Do not plant legumes or susceptible wildflowers until a soil bioassay has been conducted to determine if residues of Milestone VM remaining in the soil will adversely affect establishment of legumes and wildflowers.

**Grazing and Haying Restrictions:** There are no restrictions on grazing or hay harvest following application of Milestone VM at labeled rates. Cutting hay too soon after spraying weeds will reduce weed control. Wait 14 days after herbicide application to cut grass hay to allow herbicide to work. Do not transfer grazing animals from areas treated with Milestone VM to areas where sensitive broadleaf crops occur without first allowing 3 days of grazing on an untreated pasture. Otherwise, urine and manure may contain enough Milestone VM to cause injury to broadleaf plants.

**Milestone VM in Plant Residues or Manure:**

- Do not use Milestone VM-treated plant residues, including hay or straw from treated areas, or manure from animals that have grazed forage or eaten hay harvested from treated areas within the previous 3 days as compost or mulch that will be applied to areas where commercially grown mushrooms or susceptible broadleaf plants may be grown.
- Do not spread manure from animals that have grazed or consumed forage or hay from treated areas within the previous 3 days on land used for growing susceptible broadleaf crops.
- Manure from animals that have grazed forage or eaten hay harvested from Milestone VM-treated areas within the previous 3 days may only be spread on pasture grasses, grass grown for seed, and wheat.
- Do not plant a broadleaf crop in fields treated in the previous year with manure from animals that have grazed forage or eaten hay harvested from Milestone VM-treated areas until an adequately sensitive field bioassay is conducted to determine that the Milestone VM residues in the soil is at a level that is not injurious to the crop to be planted.

- To promote herbicide decomposition, plant residues should be evenly incorporated in the surface soil or burned. Breakdown of Milestone VM in plant residues or manure is more rapid under warm, moist soil conditions and may be accelerated by supplemental irrigation.

## Application Methods

Apply the specified rate of Milestone VM as a coarse low-pressure spray. Do not apply this product with mist blower systems that deliver very fine spray droplets. Spray volume should be sufficient to uniformly cover foliage. Increase spray volume to ensure thorough and uniform coverage when target vegetation is tall and/or dense. To enhance foliage wetting and coverage, an approved non-ionic agricultural surfactant may be added to the spray mixture as specified by the surfactant label.

**GROUND BROADCAST APPLICATION:** Higher spray volumes (greater than 10 gallons per acre) generally provides better coverage and better control, particularly in dense and/or tall foliage.

**AERIAL BROADCAST APPLICATION:** Do not apply less than 2 gallons per acre total spray volume. Five gallons per acre or greater will generally provide better coverage and better control, particularly in dense and/or tall foliage.

**HIGH-VOLUME FOLIAR APPLICATION:** High volume foliar treatments may be applied at rates equivalent to broadcast up to a maximum of 7 fl oz per acre per annual growing season. Use sufficient spray volume to thoroughly and uniformly wet foliage and stems but not to runoff.

**SPOT APPLICATION:** Spot treatments may be applied at an equivalent broadcast rate of up to 0.22 lb acid equivalent (14 fl oz of Milestone VM) per acre per annual growing season; however, not more than 50% of an acre may be treated at that rate. Do not apply more than a total of 0.11 lb acid equivalent (7 fl oz per acre of Milestone VM) per annual growing season as a result of broadcast, spot or repeat applications. Spray volume should be sufficient to thoroughly and uniformly wet weed foliage but not to the point of runoff.

Repeat treatments may be made, but the total amount of Milestone VM applied must not exceed 7 fl oz per acre per year. To prevent misapplication, spot treatments should be applied with a calibrated sprayer.

## Limitations, Restrictions, and Exceptions

For Control or Suppression Of Blackberry (briars), Vines And Susceptible Broadleaf Weeds In Newly Planted Longleaf Pine Plantations.

(For Distribution and Use Only in the State of North Carolina)

Refer to product label for General Use Precautions and Restrictions, Mixing and Application instructions. For suppression or control of blackberry and other susceptible broadleaf weeds and vines in newly planted longleaf pine plantations, apply up to 7 fl oz of Milestone VM per acre. Applications may be applied over-the-top of longleaf pines; however, do not use any surfactant with these applications. Less damage to planted longleaf pines has been observed while in the "grass stage" of development (usually 1 to 2 year old planted trees), so this timing is recommended. Some injury has been observed from use of Milestone VM applied over-the-top of longleaf pines that are emerging from the grass stage (growth flush with exposed candles/buds) or at later stages.

Good results with minimal damage/impact have been observed on less than 1 year old longleaf seedlings and mixed stands of 1,2, and 3 year old longleaf seedlings as long as they are still in the grass stage of development.

Applications may include broadcast, banded, or directed/spot treatments.

To broaden the spectrum of weeds and vines controlled, apply up to 7 fl oz of Milestone VM in tank mix combination with 5 fl oz Arsenal AC (or equivalent imazapyr product) per acre. Refer to the Arsenal AC (or equivalent imazapyr product) label for General Use Precautions and Restrictions, Mixing, and Application instructions.

Based on field experience, application during the spring and early summer growing season provides good weed control with little potential for damage to planted longleaf pine in the "grass" stage. Later season timing or dormant season timing has not been evaluated, but is not restricted by this label. Applications should be made when target weeds are actively growing with healthy and abundant foliage. Do not exceed the maximum use rate of 7 fl oz Milestone VM per acre.

Application Notes: For best control from broadcast and directed spray applications of Milestone VM, use a spray volume which will provide thorough plant coverage. Recommended spray volumes are usually 15 to 25 gallons per acre.

Method

[Spot treatment](#)

[Directed](#)

[Broadcast](#)

[Banded](#)

Restricted Entry Interval

12 hours

Timings

[During the spring and early summer growing season.](#)