



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

January 14, 2015

Carrie Tackema
Nufarm Americas, Inc.
4020 Aerial Center Parkway, Suite 101
Morrisville, NC 27560

Subject: Label Notification per PRN 98-10 – Minor revision to the descriptor of the Option 2 directions
Product Name: Mallet 2.5 G Insecticide
EPA Registration Number: 228-502
Application Date: December 18, 2014
Decision Number: 499020

Dear Ms. Tackema:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for the above referenced product. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10.

The label submitted with the application has been stamped "Notification" and will be placed in our records. .

If you have any questions, you may contact Dr. Jennifer Urbanski at 703-347-0156 or via email at urbanski.jennifer@epa.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "Venus Eagle".

Venus Eagle, PM 01
Invertebrate & Vertebrate Branch 3
Registration Division
Office of Pesticide Programs

NOTIFICATION

228-502

The applicant has certified that no changes, other than those reported to the Agency have been made to the labeling. The Agency acknowledges this notification by letter dated:

01/14/2015

Mallet[®] 2.5 G

INSECTICIDE

FOR SYSTEMIC INSECT CONTROL IN ORNAMENTAL PLANTS

ACTIVE INGREDIENT:

Imidacloprid 2.5%

OTHER INGREDIENTS:..... 97.5%

TOTAL:100.0%

Not for sale, sale into, distribution and/or use in Nassau, Suffolk, Kings, and Queens counties in the state of New York.

KEEP OUT OF REACH OF CHILDREN

CAUTION

SEE INSIDE BOOKLET FOR FIRST AID AND ADDITIONAL PRECAUTIONARY STATEMENTS

For Chemical Spill, Leak, Fire, or Exposure, Call CHEMTREC (800) 424-9300
For Medical Emergencies Only, Call (877) 325-1840

EPA REG. NO. 228-502
EPA EST. NO. _____

MANUFACTURED FOR
NUFARM AMERICAS INC.
11901 South Austin Avenue
Alsip, IL 60803



NET CONTENTS _____ GALS. (____L)

[Nufarm: Grow a better tomorrow]
[Grow a better tomorrow]

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
CAUTION**

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

| FIRST AID | |
|---|--|
| IF IN EYES | <ul style="list-style-type: none">• Hold eye open and rinse slowly and gently with water for 15 to 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. |
| IF ON SKIN OR CLOTHING | <ul style="list-style-type: none">• Take off contaminated clothing.• Rinse skin immediately with plenty of water for 15 to 20 minutes.• Call a poison control center or doctor for treatment advice. |
| HOT LINE NUMBER | |
| Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-877-325-1840 for emergency medical treatment information. | |
| NOTE TO PHYSICIAN | |
| No specific antidote is available. Treat the patient symptomatically. | |

ENVIRONMENTAL HAZARDS

This product is highly toxic to aquatic invertebrates. **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 washwaters.

Groundwater Advisory

This chemical demonstrates the properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

DIRECTIONS FOR USE

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

Note to Reviewer: the two statements in brackets below may be used as they relate to *Tilia* species:

[**DO NOT** apply this product, by any application method, to linden, basswood or other *Tilia* species in the State of Oregon.]

[**DO NOT** apply this product, by any application method, to linden, basswood or other *Tilia* species.]

OPTION 1 (existing approved specific use directions, simplified method)

This product comes ready to use with no mixing necessary. This product aids in ant management and controls sucking pests. It can be applied around shrubs and small trees by spreading directly beneath the base of the tree or shrub.

This product is for use on ornamental shrubs and small trees in outdoor landscapes and interior plantscapes. It is a systemic insecticide and will be taken up by the roots and translocated upward within the plant system. Therefore watering after application makes the product more available for uptake.

Systemic activity using this soil application treatment method can be delayed until the active ingredient is translocated throughout the plant. For this reason, applications work best when made prior to pest infestation or before pest populations become severe.

INSECTS CONTROLLED

Adelgids
Aphids
Black vine weevil (larvae in soil)
Japanese beetle (adults)
Lace bugs

Leaf beetles (including Elm leaf & Viburnum leaf beetles)
Leafhoppers
Psyllids
Whiteflies (including fig [ficus] whitefly)

WHERE TO APPLY

Shrubs and small trees in outdoor landscapes and interior plantscapes.

USE RATE

Select rate according to height of shrub or tree: Up to 4 ft. – use ¼ to ½ cup; 4 to 8 ft. – use ½ to 1 cup. Use the high rate within the range for initial treatment and lower rates for re-application, if needed.

HOW AND WHEN TO APPLY

Spread appropriate rate evenly around the base of plant under foliage, whenever pests are seen or found. Re-apply as needed based on pest re-infestation or at 4 to 8 week intervals. Apply early before pest populations become severe. Irrigation or rainfall is necessary within 24 hours following application. Pull back mulch and weed barrier before application. **DO NOT** apply to frozen or water-logged areas, as this may decrease the product's effectiveness.

NOTE: 1 level cup is approximately 6 ounces of this product.

ANT MANAGEMENT

Use this product to control aphids and other sucking pests on ornamentals to limit the honey dew available as a food source for ant populations. Applications can then be supplemented with remedial sprays, bait placements or other ant control tactics to further reduce pest populations.

USE RESTRICTIONS

DO NOT apply near fish pools, ponds, streams or lakes.

DO NOT apply to soils which are frozen, waterlogged, or saturated which will reduce delivery of product into the root zone of the plants.

DO NOT apply more than 16 lbs of product (0.4 lbs ai) / acre or 0.37 lbs (6 oz.) of product / 1,000 square feet / year.

DO NOT use kitchen utensils to measure or apply this product.

OPTION 2 (new-proposed-alternate specific use directions for single application / yr)

This product comes ready to use with no mixing required. This product is for use on ornamental plantings in outdoor landscapes and interior plantscapes. It is a soil applied systemic insecticide and will be taken up by the roots and translocated upward within the plant system. Watering after application makes the product more available for uptake. Systemic activity can be delayed until the active ingredient is translocated throughout the entire plant.

ORNAMENTAL PESTS CONTROLLED

| | |
|---|---|
| Adelgids | Leafminers (including Birch and Boxwood) |
| Aphids | Mealybugs |
| Armored Scales (suppression) | Pine tip moth larvae |
| Borers | Psyllids |
| Round-headed (including Eucalyptus longhorned) | Royal Palm bugs |
| Flat-headed (including Alder and Bronze birch) | Root weevil larvae (including Black vine weevil) |
| Bark beetles (suppression) | Sawfly larvae |
| Fungus Gnats | Soft scales (including lobate lac scales) |
| Japanese beetle (adults) | Thrips |
| Lace bugs | Whiteflies (including fig [ficus] whitefly) |
| Leaf beetles (including Elm leaf & Viburnum leaf beetles) | White grub larvae (including Japanese beetle, Chafers, European chafer, Oriental beetle, Asiatic garden beetle) |
| Leafhoppers (including Glassy-winged sharpshooter) | |

WHERE TO APPLY

For use on shade trees and other ornamental trees, including listed fruit and nut trees:

| | | | |
|-----------|--------|---------------|--------|
| Apple | Loquat | Oriental Pear | Pecan |
| Crabapple | Mayhaw | Pear | Quince |

For use on shrubs, and container plants in outdoor landscapes and interior plantscapes.

WHEN TO APPLY

Apply early before pest populations become severe. Irrigation or rainfall is necessary within 24 hours following application. See "USE RESTRICTIONS" section below for use on bearing fruit & nut trees.

HOW MUCH TO APPLY

Tree with one trunk: Measure distance (in inches) around tree trunk at chest height. A flexible tape measure is an appropriate method (tool). Apply [___ capfuls] [0.125 cup] (0.65 oz) of this product for each inch of distance around the trunk.

Trees with multiple trunks: Measure the distance (in inches) around each trunk at chest height and add together. Multiply this total by 0.75. This is the number of [___ capful] [0.125 cup] (0.65 oz) increments to apply around the tree trunk. Example: *A tree has 3 trunks. They measure 16, 10, and 6 (inches) for a total of 32 (inches). 32 X 0.75 = 24 increments. [24 X 0.125 cups = 3 cups] [24 X ___ capfuls = ___ capfuls] [24 X 0.65 oz = 15.6 oz].*

NOTE: the amount needed for trees w/ multiple trunks is less than the amount needed for a single trunk tree of same total diameter.

Shrubs: Measure the height of the shrub to the nearest foot. Apply [___capfuls] [0.375 cup] (2.0 oz) of this product for each foot (12-inches) of shrub height.

Container plants: Apply the quantity of this product specified for the size container being treated.

- 1 gallon container = 1 teaspoon [tsp]
- 3 gallon container = 1 tablespoon [tbsp]
- 5 gallon container = 1 ¼ tablespoon [tbsp]

[tsp= teaspoon] [tbsp= tablespoon]

HOW TO APPLY

Water in granules immediately after application with a sufficient volume of water to wet the soil to a depth of 3-4 inches. Before application, pull back any mulch or weed barrier that will inhibit even spreading and watering in of granules. Brush or wash off any granules adhering to plant foliage.

Trees: For trees with a distance around the trunk of [<] [less than] 30 ["] [inches] apply product to the soil in a circle around the tree a distance of approximately 2 feet out from the base of tree. For trees with a distance around the trunk of [>] [greater than] 30 ["] [inches] apply product to the soil in a circle 3-4 feet out from the base of the tree.

Shrubs: For shrubs [<] [less than] 3 feet tall, apply product evenly to the soil 1 foot out from the base of the shrub. For shrubs [>] [greater than] 3 feet tall, apply product evenly to the soil 2 feet out from the base of the shrub.

Container plants: Spread required amount of product evenly over the potting soil around the base of plant foliage and water thoroughly. For the first 10 days **DO NOT** water the container to the point that water overflows or leaks out the bottom of container. For indoor plantings, bring outdoors to make treatment and return plantings indoors when no excess water is present.

USE RESTRICTIONS

DO NOT apply near fish pools, ponds, streams or lakes.

DO NOT apply to soils which are frozen, waterlogged, or saturated which will reduce delivery of product into the root zone of the plants.

DO NOT make more than 1 application per year.

DO NOT apply more than 16 lbs of product (0.4 lbs ai) / acre or 0.37 lbs (6 oz.) of product / 1000 square feet / year.

DO NOT apply to bearing fruit trees (apple, crabapple, loquat, Mayhaw, pear, quince) within 21 days of harvest

DO NOT apply to bearing nut trees (pecan) within 7 days of harvest.

DO NOT use kitchen utensils to measure or apply this product.

STORAGE AND DISPOSAL

DO NOT contaminate water, food, or feed by storage or disposal.

PESTICIDE STORAGE: Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, or feed. Store in original containers and out of the reach of children, preferably in a locked storage area.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Improper disposal of excess pesticide is a violation of Federal law.

SPILLS: If the container is leaking or material is spilled for any reason or cause, carefully sweep material into a pile. Refer to Precautionary Statements on label for hazards associated with the handling of this material.

DO NOT walk through spilled material. Dispose of as directed for pesticides above, or apply uncontaminated product according to Directions For Use. Keep unauthorized people away. For chemical spill, leak, fire, or exposure, you may contact CHEMTREC at 800-424-9300.

CONTAINER DISPOSAL: Nonrefillable container. **DO NOT** reuse or refill this container. Offer for recycling if available, or if recycling is not available, place empty container in trash.

WARRANTY DISCLAIMER

The directions for use of this product must be followed carefully. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, (1) THE GOODS DELIVERED TO YOU ARE FURNISHED "AS IS" BY MANUFACTURER OR SELLER AND (2) MANUFACTURER AND SELLER MAKE NO WARRANTIES, GUARANTEES, OR REPRESENTATIONS OF ANY KIND TO BUYER OR USER, EITHER EXPRESS OR IMPLIED, OR BY USAGE OF TRADE, STATUTORY OR OTHERWISE, WITH REGARD TO THE PRODUCT SOLD, INCLUDING, BUT NOT LIMITED TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, USE, OR ELIGIBILITY OF THE PRODUCT FOR ANY PARTICULAR TRADE USAGE. UNINTENDED CONSEQUENCES, INCLUDING BUT NOT LIMITED TO INEFFECTIVENESS, MAY RESULT BECAUSE OF SUCH FACTORS AS THE PRESENCE OR ABSENCE OF OTHER MATERIALS USED IN COMBINATION WITH THE GOODS, OR THE MANNER OF USE OR APPLICATION, INCLUDING WEATHER, ALL OF WHICH ARE BEYOND THE CONTROL OF MANUFACTURER OR SELLER AND ASSUMED BY BUYER OR USER. THIS WRITING CONTAINS ALL OF THE REPRESENTATIONS AND AGREEMENTS BETWEEN BUYER, MANUFACTURER AND SELLER, AND NO PERSON OR AGENT OF MANUFACTURER OR SELLER HAS ANY AUTHORITY TO MAKE ANY REPRESENTATION OR WARRANTY OR AGREEMENT RELATING IN ANY WAY TO THESE GOODS.

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TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, IN NO EVENT SHALL MANUFACTURER OR SELLER BE LIABLE FOR SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, OR FOR DAMAGES IN THEIR NATURE OF PENALTIES RELATING TO THE GOODS SOLD, INCLUDING USE, APPLICATION, HANDLING, AND DISPOSAL. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, MANUFACTURER OR SELLER SHALL NOT BE LIABLE TO BUYER OR USER BY WAY OF INDEMNIFICATION TO BUYER OR TO CUSTOMERS OF BUYER, IF ANY, OR FOR ANY DAMAGES OR SUMS OF MONEY, CLAIMS OR DEMANDS WHATSOEVER, RESULTING FROM OR BY REASON OF, OR ARISING OUT OF THE MISUSE, OR FAILURE TO FOLLOW LABEL WARNINGS OR INSTRUCTIONS FOR USE, OF THE GOODS SOLD BY MANUFACTURER OR SELLER TO BUYER. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, ALL SUCH RISKS SHALL BE ASSUMED BY THE BUYER, USER, OR ITS CUSTOMERS. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BUYER'S OR USER'S EXCLUSIVE REMEDY, AND MANUFACTURER'S OR SELLER'S TOTAL LIABILITY SHALL BE FOR DAMAGES NOT EXCEEDING THE COST OF THE PRODUCT.

If you DO NOT agree with or DO NOT accept any of the directions for use, the warranty disclaimers, or limitations on liability, DO NOT use the product, and return it unopened to the Seller, and the purchase price will be refunded.

(RV050614RV121814)

Mallet is a registered trademark of Nufarm Americas, Inc.

NOTE TO REVIEWER:

THE FOLLOWING MARKETING CLAIMS MAY APPEAR ON PRODUCT LABEL, ADVERTISING LITERATURE, AND WEBSITES FOR PRODUCTS UTILIZING **OPTION 1** SPECIFIC USE DIRECTIONS:

1. For use on outdoor landscapes and interior plantscapes.
2. (4 lbs) Treats 20 small trees or shrubs.
3. [Protects/Defends/Guards] Trees & Shrubs from listed insects.
4. [Protects/Defends/Guards] new growth
5. Systemic insecticide taken up by roots and carried through the entire plant.
6. Kills insects and prevents re-infestation

THE FOLLOWING MARKETING CLAIMS MAY APPEAR ON PRODUCT LABEL, ADVERTISING LITERATURE, and WEBSITES FOR PRODUCTS UTILIZING **OPTION 2** SPECIFIC USE DIRECTIONS:

1. [Protects/Defends/Guards] Trees & Shrubs from listed insects.
2. [Protects/Defends/Guards] trees, shrubs, and plants from listed insect damage with one easy treatment
3. [Protects/Defends/Guards] new growth
4. Systemic insecticide taken up by roots and carried through the entire plant.
5. Kills listed insects and prevents re-infestation
6. Ready to spread granules- no mixing
7. Up to 12 months [of insect] [Protection/Defense/Control/Prevention] [against listed insects]
8. Insect [Protection/Defense/Control/Prevention] for up to 12 months
9. [Protects/Defends/Guards] for up to 12 months
10. Provides up to [1,2...12] months continuous release [Protection/Defense/Control/Prevention] [for trees] [&] [shrubs] [guaranteed! or your money back]
11. [concentrated] [for use on] [Covers/Protects/Defends/Guards/Treats] [large areas / large numbers of trees & shrubs]
12. [concentrated] [for use on] [Treats / For] larger areas
13. Rainproof/Rainfast [Protection/Defense/Control/Prevention]
14. Guaranteed [Results] or your money back
15. Great value!
16. Great value per tree [&/or shrub]!
17. Treats 50% More [Trees & Shrubs]*
* vs. Ortho Tree & Shrub Insect Control Ready-To-Spray [EPA Reg. No. 228-525-239]
* vs. 32 oz. 1.47% Imidacloprid liquid concentrate formula [EPA Reg. No. 228-525-239]
18. (4 lbs) [Covers/Protects/Defends/Guards/Treats] 11 trees that measure 8 inches around trunk. (will vary by same proportion based on net contents)
19. (4 lbs) [Covers/Protects/Defends/Guards/Treats] 13 shrubs that are 2 feet tall. (will vary by same proportion based on net contents)
20. No dark green rings [around/at tree base]
21. [Provide sufficient nutrition with / For best feeding results use] Miracle-Gro Tree & Shrub Fertilizer Spikes or other Miracle-Gro products
22. Easy [to use] Measuring [cap]
23. Quick & Easy Measuring [cap]
24. AccuDose Measuring [cap]
25. Coverage Chart: (will vary by same proportion based on net contents)
 - a. (4 lbs) 11 trees (8 inches around)
 - b. (4 lbs) 13 shrubs (2 feet tall)
 - c. (4 lbs) 125 containers (5 gallon size)
26. [Formulated for/Developed for] [large[r] areas] [large numbers of trees] [& shrubs]
27. Up to Year-long [Protection/Defense/Control/Prevention] for trees & shrubs.
28. Systemic [Protection/Defense/Control/Prevention] from/against/for/of [any combination of listed insects].
29. Easy to use/apply [granules] [Just sprinkle at plant base] [for up to 12 months of worry-free care]
30. Kills and prevents listed insects [like.. any combination of listed insects] for up to 12 months.
31. Compare and save!
32. [Lots of trees?] [and shrubs?] Save money, [buy insect product name] [the] [concentrated/the concentrate] [product]