



# 0.2% Mallet<sup>®</sup> Plus

For fertilization and insect control in turfgrass and landscape ornamentals.

**ACTIVE INGREDIENT:**

Imidacloprid ..... 0.2%  
**OTHER INGREDIENTS:** ..... 99.8%  
**TOTAL:** ..... 100.0%

EPA REG. NO. 228-500-32802

EPA EST. NO. 59144-GA-1(A), 32802-MO-1(B), 37351-CO-1 (C)

MALLET IS A REGISTERED TRADEMARK OF NUFARM AMERICAS INC

Manufactured for: **Howard Johnson's Enterprises, Inc.**  
 9675 S 60th Street, Franklin, WI 53132

**KEEP OUT OF REACH OF CHILDREN  
 CAUTION - PRECAUCION**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.  
 (If you **DO NOT** understand the label, find someone to explain it to you in detail.)

For Chemical Spill, Leak, Fire, or Exposure,  
 Call CHEMTREC (800) 424-9300

For Medical Emergencies Only, Call (877) 325-1840

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

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

**THE FOLLOWING PERSONAL PROTECTIVE EQUIPMENT (PPE) REQUIREMENTS APPLY TO SOD FARM USE ONLY:**

**Applicators and other handlers must wear:** Long-sleeved shirt, long pants, chemical-resistant gloves (such as natural rubber selection category A), shoes and socks.

Follow manufacturer's instructions for cleaning/maintaining Personal Protective Equipment (PPE). If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

**For Non-WPS Uses:** Applicators and other handlers who handle this product for any use not covered by WPS (40CFR Part 170) - in general only agricultural plant uses are covered by WPS - must wear: shirt, pants, gloves and shoes plus socks.

**USER SAFETY RECOMMENDATIONS**

**Users Should:**

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

**NON-AGRICULTURAL USE REQUIREMENTS**

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standards for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, and greenhouses. If watering-in of the product is necessary, do not allow people or pets on treated areas until grass or soil is dry.

**GUARANTEED ANALYSIS**

21-00-05  
 Total Nitrogen (N) 21%  
 21.00% Urea Nitrogen\*  
 Soluble Potash (K<sub>2</sub>O) 5%

Derived From: MURIATE OF POTASH,  
 POLYMER COATED UREA, UREA

\*10.50% Slowly Available Urea Nitrogen  
 from Polymer Coated Urea

Chlorine (Cl), not more than  
 6.00%

Net Weight Item Number  
 50 lbs (22.68 kg) 100519494

SAP 100519494

Information regarding the contents of metals in this product is available on the internet at <http://www.appfco.org/metals.htm>

**FIRST AID**

<b>IF ON SKIN OR CLOTHING</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15 to 20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>IF IN EYES</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>

**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.

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.

**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 requirement specific to your State or Tribe, consult the agency responsible for pesticide regulation.

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

**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 interval. 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 12 hours.

PPE required for early entry to 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, is: coveralls, chemical-resistant gloves made of any waterproof material, shoes plus socks.

**APPLICATION TO TURFGRASS**

This product can be used for the control of soil inhabiting pests of turfgrass: Northern & Southern masked chafers, *Cyclocephala borealis*, *immaculata*, and for *C. lurida*; Asiatic garden beetle, *Maladera castanea*; European chafer, *Rhizotrogus majalis*; May or June beetles, *Phyllophaga* spp.; Japanese beetle, *Popillia japonica*; Oriental beetle, *Anomala orientalis*; Billbugs, *Sphenophorus* spp.; Annual bluegrass weevil, *Hyperodes* spp.; Black turfgrass ataenius, *Ataenius spretulus*; *Aphodius* spp.; and mole crickets, *Scapteriscus* spp. This product can be used as directed on turfgrass in sites such as home lawns, business and office complexes, shopping complexes, multi-family residential complexes, golf courses, airports, cemeteries, parks, playgrounds, athletic fields and sod farms.

The active ingredient in this product has sufficient residual activity so that applications can be made preceding the egg laying activity of the target pests. High levels of control can be achieved when applications are made preceding or during the egg laying period. The need for an application can be based on historical monitoring of the site, previous records or experiences, current season adult trapping or other methods. Optimum control will be achieved when applications are made prior to egg hatch of the target pest, followed by sufficient irrigation or rainfall to move the active ingredient through the thatch.

**DO NOT** apply to turfgrass that is water saturated. The potential of less than satisfactory distribution of this product could occur which could cause less than expected performance. The treated area must be in such a condition that the rainfall or irrigation will penetrate vertically into the soil profile. Applications cannot exceed a total of 200 pounds (0.4 pound of active ingredient) per acre per year.

**APPLICATION TO ORNAMENTALS**

This product can be used as a broadcast application on ornamentals in commercial and residential landscapes, as well as on landscaped areas of golf courses and other recreational areas. Application should be made prior to anticipated pest infestation to achieve optimum levels of control. Rainfall, irrigation or mechanical incorporation after application will aid in maximizing control.

Applications of this product cannot exceed a total of 200 pounds (0.4 pound of active ingredient) per acre per year.

**APPLICATION EQUIPMENT**

Apply this product uniformly over the area being treated with typical granular application equipment. Both drop-type and rotary-type spreaders may be used to apply this product. Avoid the use of spreaders which would apply the material in narrow, concentrated bands. It is recommended that all spreader equipment be calibrated at the time of application to achieve the desired application rate.

**SPREADER SETTINGS FOR THIS PRODUCT**

The following chart can be used as a guide in establishing an accurate rate of this product. The suggested settings should provide an application rate of 3.5 pounds per 1,000 square feet or 150 pounds per acre. Application rates will vary dependent upon speed, equipment wear and condition of spreader.

Spreader setting to apply at the listed rate (lbs per 1000 sq ft)	3.0 lbs	3.5 lbs	4.5 lbs
Spyker 24-22 Rotary	3.9	4.0	4.3
Lesco Rotary	11(E-F)	12(F)	13(F-G)
PRIZELAWN CB-ROTARY	4.2	4.4	4.6
EarthWay 2400 Rotary	15	17	18
Cyclone Pro	3.5	3.75	4.25
Scotts R8A	G	I	J
Lely Broadcast	2.5	2.8	3.2
Bigfoot	G	H	I
Cub Cadet	13	14	15

**RESTRICTIONS**

- Avoid runoff or puddling of irrigation water following application.
- Avoid application of this product to areas which are water logged or saturated, which will not allow penetration into the root zone of the plant.
- **DO NOT** apply more than 200 pounds (0.4 pound of active ingredient) per acre per year.
- **DO NOT** apply to vegetable gardens.
- **DO NOT** apply near fish pools, ponds, lakes, or streams
- Food utensils such as teaspoons or measuring cups should not be used for food purposes after use with insecticides.

**APPLICATION RATES**

CROP	PEST	DOSAGE
Turfgrasses	Larvae of: Annual bluegrass weevil, European Crane Fly Asiatic garden beetle, Northern masked chafer, Billbugs, Oriental beetle, Black turfgrass ataenius, <i>Phyllophaga</i> spp. European chafer, Southern masked chafer	125 to 200 pounds per acre or 3.0 to 4.5 pounds per 1,000 square feet
	Larvae of: Asiatic garden beetle, Northern masked chafer, Black turfgrass ataenius, Oriental beetle, European chafer, <i>Phyllophaga</i> spp. Japanese beetle, Southern masked chafer	150 pounds per acre or 3.5 pounds per 1,000 square feet
	Larvae of: Billbug Annual bluegrass weevil	150 to 200 pounds per acre or 3.5 to 4.5 pounds per 1,000 square feet
For optimum control, make application prior to egg hatch of the target pest. Be sure to read "APPLICATION EQUIPMENT" section of this label.		
	Mole crickets	200 pounds per acre or 4.5 pounds per 1,000 square feet

For control of mole crickets make application prior to or during the peak egg hatch period. When adults or large nymphs are present and actively tunneling, application should be accompanied by a curative insecticide. Consult your local State Agricultural Experiment Station or State Extension Turf Specialists for more specific information regarding timing of application.

**NOTE:** For optimum control, irrigation or rainfall should occur within 24 hours after application to move the active ingredient through the thatch. On golf courses, irrigate treated areas following application. **DO NOT** apply more than 200 pounds (0.4 pound of active ingredient) per acre per year. Avoid mowing turf or lawn area until after irrigation or rainfall has occurred so that uniformity of application will not be affected.

**APPLICATION RATES FOR USE ON ORNAMENTALS**

CROP	PEST	DOSAGE
Landscape Plantings Including: Trees, Shrubs, Evergreens Flowers, Foliage, Plants, Ground Covers	White grub larvae Such as: Japanese beetle larvae Chafers, <i>Phyllophaga</i> spp. Asiatic garden beetle Oriental beetle	3.5 to 4.5 pounds per 1,000 square feet

Apply as a broadcast treatment. Prior to application, remove black plastic or other weed barrier material that will not permit water permeability.

**NOTE:** For optimum control, mechanical incorporation, irrigation or rainfall should occur within 24 hours after application to move the active ingredient into soil. Refer to label sections on "APPLICATION EQUIPMENT" and "SPREADER SETTINGS".

**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.

**CONTAINER DISPOSAL:** Nonrefillable container. **DO NOT** reuse or refill this container. Offer for recycling if available. **SPILLS:** If the container is leaking or material is spilled for any reason or cause, carefully sweep material into a pile. Refer to Precautionary Statement 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 the Directions For Use. Keep unauthorized people away. For chemical spill, leak, fire or exposure, you may contact CHEMTREC at 800-424-9300

**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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