



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

July 12, 2018

Jordan Moseley  
Syngenta Crop Protection, LLC  
P.O. Box 18300  
Greensboro, NC 27419

Subject: Notification per PRN 98-10 – To add MOA information and to revise other minor text  
Product Name: Divanem  
EPA Registration Number: 100-1611  
Application Date: April 16, 2018  
Decision Number: 540364

Dear Mr. Moseley:

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.

Should you wish to add/retain a reference to the company’s website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product’s label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA’s Office of Enforcement and Compliance.

If you have any questions, you may contact Gene Benbow at 703-347-0235 or via email at [Benbow.Gene@epa.gov](mailto:Benbow.Gene@epa.gov).

Sincerely,

A handwritten signature in blue ink, appearing to read "Gene Benbow".

Gene Benbow, Product Manager 7  
Invertebrate & Vertebrate Branch 3  
Registration Division (7505P)  
Office of Pesticide Programs

**RESTRICTED USE PESTICIDE**  
**DUE TO TOXICITY TO NON-TARGET INVERTEBRATES, MAMMALS, AND AQUATIC ORGANISMS**  
**FOR SALE TO AND USE ONLY BY CERTIFIED APPLICATORS OR PERSONS UNDER THEIR DIRECT**  
**SUPERVISION AND ONLY FOR THOSE USES COVERED BY THE CERTIFIED APPLICATOR'S**  
**CERTIFICATION.**

**GROUP 6 INSECTICIDE**

**Divanem™**

Nematicide

For control of turf-parasitic nematodes on golf course greens, tees and fairways

Active Ingredient:	
Abamectin*:	8.0%*
Other Ingredients:	92.0%
Total:	100.0%

\*CAS No. 71751-41-2

Divanem™ is formulated as a suspension concentrate and contains 0.7 lb abamectin per gallon.

**KEEP OUT OF REACH OF CHILDREN.**

**WARNING/AVISO**

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.)

See additional precautionary statements and directions for use in booklet.

EPA Reg. No. 100-1611  
EPA Est. XXXX

SCP

8 fluid ounces  
1 quart  
1 gallon  
Net Contents

**NOTIFICATION**

100-1611

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:

07/12/2018

## **TABLE OF CONTENTS**

### **1.0 FIRST AID**

### **2.0 PRECAUTIONARY STATEMENTS**

- 2.1 Hazards to Humans and Domestic Animals
- 2.2 Personal Protective Equipment (PPE)
- 2.3 Environmental Hazards
- 2.4 Physical or Chemical Hazards

### **DIRECTIONS FOR USE**

### **3.0 PRODUCT INFORMATION**

### **4.0 APPLICATION DIRECTIONS**

- 4.1 Application Equipment
- 4.2 Mixing Directions

### **5.0 RESTRICTIONS AND PRECAUTIONS**

- 5.1 Use Restrictions
- 5.2 Spray Drift Management

### **6.0 TURF USE DIRECTIONS**

### **7.0 STORAGE AND DISPOSAL**

### **8.0 CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY**

## 1.0 FIRST AID

<b>FIRST AID</b>	
<b>If swallowed</b>	<ul style="list-style-type: none"> <li>• Call poison control center or doctor immediately for treatment advice.</li> <li>• Have a person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If inhaled</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<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 15-20 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 15-20 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>
<b>NOTE TO PHYSICIAN</b>	
<p>Early signs of intoxication include dilation of pupils, muscular incoordination, and muscular tremors. Toxicity following accidental ingestion of this product can be minimized by early administration of chemical adsorbents (e.g., activated charcoal).</p> <p>If toxicity from exposure has progressed to cause severe vomiting, the extent of resultant fluid and electrolyte imbalance should be gauged. Appropriate supportive parenteral fluid replacement therapy should be given, along with other required supportive measures (such as maintenance of blood pressure levels and proper respiratory functionality) as indicated by clinical signs, symptoms, and measurements.</p> <p>In severe cases, observations should continue for at least several days until clinical condition is stable and normal. Since abamectin is believed to enhance GABA activity in animals, it is probably wise to avoid drugs that enhance GABA activity (barbiturates, benzodiazepines, valproic acid) in patients with potentially toxic abamectin exposure.</p>	
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment.</p>	
<b>HOTLINE NUMBER</b>	
<p>For 24-Hour Medical Emergency Assistance (Human or Animal) Or Chemical Emergency Assistance (Spill, Leak, Fire or Accident) Call <b>1-800-888-8372</b></p>	

## 2.0 PRECAUTIONARY STATEMENTS

### 2.1 Hazards to Human and Domestic Animals

#### WARNING

May be fatal if swallowed or inhaled. Do not breathe vapor or spray mist. Harmful if absorbed through the skin. 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, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

### 2.2 Personal Protective Equipment (PPE)

**Applicators and other handlers must wear:**

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material
- Shoes plus socks

#### 2.2.1 USER SAFETY REQUIREMENTS

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

#### 2.2.2 ENGINEERING CONTROLS

When handlers use closed systems or enclosed cabs, in a manner that meets the requirements listed in the worker Protection Standard (WPS) for agricultural pesticides (40 CFR 170.240(d)(4-6)), the handler PPE requirements may be reduced or modified as specified in the WPS.

**IMPORTANT:** When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified above for "applicators and other handlers" and have such PPE immediately available for use in an emergency, such as a spill or equipment break-down.

#### **User Safety Recommendations**

**Users should:**

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Wash thoroughly with soap and water after handling.
- Remove clothing/PPE 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.

## 2.3 Environmental Hazards

This pesticide is toxic to fish and wildlife.

Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift from target areas. Do not contaminate water when disposing of equipment wash water or rinsate. This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are foraging in or adjacent to the treatment area.

Use of this product may pose a risk to threatened and endangered species of fish, amphibians, crustaceans (including fresh water shrimp), and insects. All use of this product in the state of California should comply with the recommendations of the California Endangered Species Project. Before using this product in California, consult with your county agriculture commissioner to determine use limitations that apply in your area.

This product may impact surface water quality due to runoff of rain water. This is especially true for poorly draining soils and soils with shallow ground water. This product is classified as having a medium potential for reaching both surface water and aquatic sediment via runoff for several weeks to months after application. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential loading of abamectin from runoff water and sediment. Runoff of this product will be reduced by avoiding applications when rainfall is forecast to occur within 48 hours.

## 2.4 Physical or Chemical Hazards

Do not use or store near heat or open flame.

**Attention: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.**

# DIRECTIONS FOR USE

## RESTRICTED USE PESTICIDE

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

Divanem must be used only in accordance with directions on this label or in separately published supplemental labeling for this product.

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

**FAILURE TO FOLLOW DIRECTIONS AND PRECAUTIONS ON THIS LABEL MAY RESULT IN CROP INJURY, POOR INSECT CONTROL, AND/OR ILLEGAL RESIDUES.**

### 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 Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

**Do not re-enter treated areas until sprays have dried.**

## 3.0 PRODUCT INFORMATION

- Divanem is a soluble suspension concentrate containing abamectin which, when applied according to directions for use, will control turf-parasitic nematodes such as sting (*Belonolaimus longicaudatus*), lance (*Hoplolaimus galeatus*), root-knot (*Meloidogyne spp.*), and ring (*Criconemoides spp.*) on golf courses.
- Divanem should be applied as a seasonal program.
- Apply Divanem as an early curative treatment (after appropriate nematode extraction, identification, and counts).
- Multiple applications may be required before improvements in turf quality are observed
- Maximum annual rate must not exceed 0.27 lb abamectin/calendar year or 50 fl oz Divanem/A/calendar year.

## 4.0 APPLICATION DIRECTIONS

### 4.1 Application Equipment

For best results, use spray nozzles that produce extremely coarse droplets [such as Turbo Floodjet (TF5) or TurfJet (TTJ10)].

### 4.2 Mixing Directions

#### 4.2.1 DIVANEM ALONE

Add the required amount of product directly to the spray tank and mix well.

#### 4.2.2 TANK-MIX PRECAUTIONS

- Do not combine Divanem in the spray tank with pesticides, surfactants, or fertilizers unless compatibility charts or your own prior use has shown that the combination is physically compatible, effective, and non-injurious under your conditions of use.
- Do not mix with any product that prohibits such mixing.
- Observe all directions for use, sites, use rates, dilution ratios, precautions, and limitations that appear on the tank-mix product label.
- Do not exceed any labeled use rate.
- Follow the most restrictive label precautions and limitations.
- Tank mixtures or other applications of products referenced on this label are permitted only in those states in which the referenced products are labeled.

#### 4.2.3 TANK-MIX COMPATIBILITY

Divanem is compatible with Daconil Action™, Banner MAXX®, Headway®, Heritage® TL, Heritage® Fungicide, Heritage™ Action, Subdue MAXX®, and Velista®turf fungicides.

#### 4.2.4 SPRAY ADDITIVES

The addition of a soil surfactant or soil wetting agent is recommended with Divanem. Follow all manufacturer use rates, recommendations, and restrictions.

## 5.0 RESTRICTIONS AND PRECAUTIONS

### 5.1 Use Restrictions

- **DO NOT** apply to golf course roughs.
- **DO NOT** apply to residential turf, sports fields or commercial turf.
- **DO NOT** use aerial application.
- **Chemigation: DO NOT** apply this product through any type of irrigation system.
- **DO NOT** apply through an ultra-low volume spray system.
- **DO NOT** apply to turf under heat or moisture stress.
- **DO NOT GRAZE TREATED TURF OR FEED TURF CLIPPINGS FROM ANY TREATED AREA TO POULTRY OR LIVESTOCK.**



## **5.2 Spray Drift Management**

**DO NOT** spray when conditions favor drift beyond area intended for application.

Conditions which may contribute to drift include thermal inversion, wind speed and direction, sprayer nozzle/pressure combinations, spray droplet size, etc. Contact your State extension agent for spray drift prevention guidelines in your area.

AVOIDING SPRAY DRIFT IS THE RESPONSIBILITY OF THE APPLICATOR. **DO NOT** apply when weather conditions favor drift from treated areas to non-target aquatic habitat.

## 6.0 TURF USE DIRECTIONS

### 6.1 Golf Course Turfgrass

Turfgrass (including all cultivars, varieties, and/or hybrids)			
Golf course greens, tees, and fairways			
Pest	Rate (fl oz/A)	Application Timing	Use Directions
<b>Turf-Parasitic Nematodes</b> (including sting, lance, root-knot, and ring)	3.125 – 6.25	Apply at this rate on a 14- to 21-day interval.	Apply in the early morning while grass is wet with dew or irrigate the area prior to application with 0.1 inches of water. Spray onto wet turf.
	6.25 – 12.2	Apply at this rate on a 21- to 28-day interval.	<p>Irrigate with 0.1 to 0.5 inches of water beginning within 1 hour of application to move Divanem through the thatch. For best results, irrigate before the spray droplets have dried on the turf.</p> <p>Apply in 2 gallons of water per 1,000 square feet of turf. When lower application volumes are used, irrigating in should begin as soon as possible after application.</p> <p>Combination treatments of Divanem and a fungicide, such as Heritage Action, Heritage Fungicide, or Heritage TL, are recommended to reduce fungal infections following nematode feeding. Heritage Action, Heritage Fungicide, or Heritage TL should be watered in with Divanem.</p> <p>Divanem is also recommended in combination with a foliar fungicide program which includes Daconil Action. Daconil Action should be applied separately and not watered in.</p> <p>Directions For Use and Use Restrictions must be followed for all products being applied.</p>
USE RESTRICTIONS			
1) <b>Maximum Single Application Rate:</b> 0.067 lb abamectin/A (12.2 fl oz Divanem /A) 2) <b>Minimum Application Interval:</b> 14 days 3) <b>Maximum Annual Rate:</b> 0.27 lb abamectin/calendar year (50 fl oz Divanem/A/calendar year)			

## 7.0 STORAGE AND DISPOSAL

### STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

#### **Pesticide Storage**

Store in a tightly closed container in a cool, dry place.

#### **Pesticide Disposal**

Pesticide waste may be hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control agency, or the Hazardous Waste representative at the nearest EPA regional Office for guidance.

#### **Container Handling**

Non-refillable container. Do not reuse or refill this container. Triple rinse (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or mix tank. Drain for 10 seconds after the flow begins to drip. Fill the container  $\frac{1}{4}$  full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or mix tank or store rinsate for later use and disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

**CONTAINER IS NOT SAFE FOR FOOD, FEED, OR DRINKING WATER!**

## 8.0 CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, presence of other materials or other influencing factors in the use of the product, which are beyond the control of SYNGENTA CROP PROTECTION, LLC or Seller. To the extent permitted by applicable law, Buyer and User agree to hold SYNGENTA and Seller harmless for any claims relating to such factors.

SYNGENTA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. To the extent permitted by applicable law: (1) this warranty does not extend to the use of the product contrary to label instructions or under conditions not reasonably foreseeable to or beyond the control of Seller or SYNGENTA, and (2) Buyer and User assume the risk of any such use. **TO THE EXTENT PERMITTED BY APPLICABLE LAW, SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS WARRANTED BY THIS LABEL.**

To the extent permitted by applicable law, in no event shall SYNGENTA be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF SYNGENTA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF SYNGENTA OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

SYNGENTA and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and Liability, which may not be modified except by written agreement signed by a duly authorized representative of SYNGENTA.

---

Divanem™, Banner MAXX®, Daconil Action™, Headway®, Heritage®, Subdue MAXX®, the ALLIANCE FRAME

the SYNGENTA Logo and the PURPOSE ICON  
are Trademarks of a Syngenta Group Company.

©20XX Syngenta

For non-emergency (e.g. current product information), call Syngenta Crop Protection at 1-800-334-9481.
---

Manufactured for:  
Syngenta Crop Protection, LLC  
P.O. Box 18300  
Greensboro, North Carolina 27419-8300

SCP

DIVANEM 1611 MAS 1016 NOTIF-B MAR2018-HI – sb – 4/16/2018  
000100-01611.20180329B.DIVANEM.NOTIF.MAR2018-HI