

# DUOCIDE™

## INSECT CONTROL

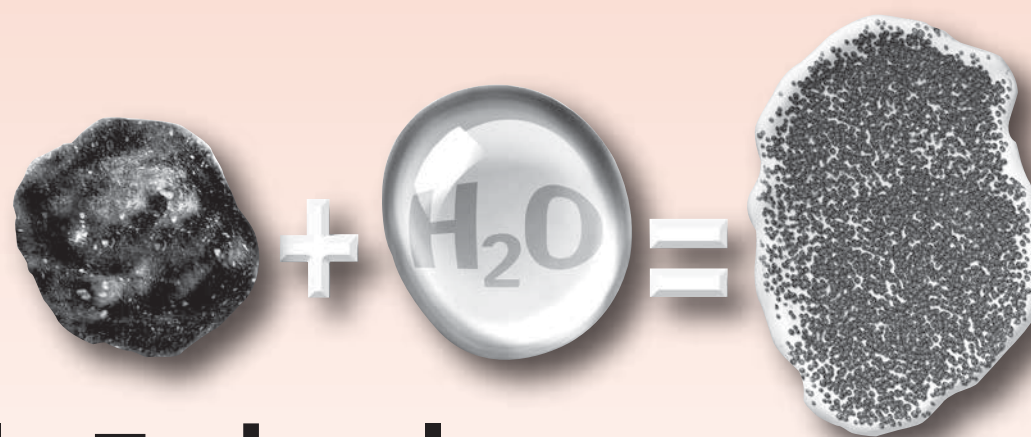
ACCEPTED  
FOR REGISTRATION

Nov 22, 2017

New York State Department  
of Environmental Conservation  
Division of Materials Management  
Pesticide Product Registration

Doc id: 554555

On **DG<sup>PRO</sup>**



## Dispersing Granule Technology

**Kills listed surface and subsurface pests on turfgrass sites including residential lawns, parks and athletic fields and kill of listed pests in ornamental plantings and around the outside of buildings. Not for use on golf courses and sod farms.**

- For kill of Adult Mole Crickets
- Effective kill of white grubs
- Kills southern chinch bugs
- Contains essential plant nutrients for turf and ornamental maintenance

<b>Active Ingredients</b>	
Bifenthrin†	0.058%
Carbaryl (1-naphthyl N-methylcarbamate)	2.300%
<b>Other Ingredients</b>	97.642%
<b>Total</b>	<b>100.000%</b>

\*Cis isomers 97% minimum, trans isomers 3% maximum

† CAS No. 82657-04-6

EPA Reg. No. 9198-235

EPA Est. No. 9198-OH-1M, 9198-OH-2B,

9198-AL-001A

Underlined letter is first letter used in run code on bag  
U.S. Patent #6,231,660 and #7,867,507

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

SEE BACK PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

**FIRST AID**

**Carbaryl is an N-Methyl Carbamate Insecticide.**

Contact a physician immediately in all cases of suspected poisoning. Transport patient to a physician or hospital immediately and **SHOW A COPY OF THIS LABEL TO THE PHYSICIAN.** If poisoning is suspected in animals, contact a veterinarian.

**If in eyes:** Hold eye open and rinse slowly and gently with water for 15-20 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:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**If swallowed:** Call a poison control center or doctor for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

**If inhaled:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-800-757-8951 for emergency medical treatment information.

**ANTIDOTE STATEMENT:** ATROPINE SULFATE IS HIGHLY EFFECTIVE AS AN ANTIDOTE. See NOTE TO PHYSICIAN.

**Note to Physician:** Carbaryl is an N-methyl carbamate that inhibits cholinesterase. Atropine is antidotal. Do not use 2-PAM (pyridine-2-aldoxime methiodide), opiates or cholinesterase inhibiting drugs. Probable mucosal damage may contraindicate the use of gastric lavage.

This product is a pyrethroid. If large amounts have been ingested, milk cream and other digestible fats and oils may increase absorption and so should be avoided.

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

**CAUTION:** Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Wear protective eyewear. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Wear long sleeved shirt and long pants, socks, shoes and chemical resistant gloves (such as natural rubber).

**User Safety Requirements:**

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

**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.

**Personal Protective Equipment (PPE)**

Some materials that are chemical-resistant to this product are barrier laminate, nitrile rubber, neoprene rubber or viton. If you want more options, follow the instructions for category E on an EPA chemical-resistance category selection chart.

Loaders, applicators, and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves, and
- Shoes plus socks

Aerial application is prohibited

**Environmental hazards**

This product is extremely toxic to fish and aquatic invertebrates. For terrestrial uses, 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 apply when weather conditions favor drift from area treated. Drift and run-off may kill aquatic invertebrates in water adjacent to treated areas. Do not contaminate water by cleaning equipment or disposal of wastes. To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Sweeping any product that lands on a driveway, sidewalk, or street, back onto the treated area of the lawn or garden will help to prevent run off to water bodies or drainage systems.

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

**ENGINEERING CONTROLS**

When applicators use enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR 170.240 (d)(5)), the handler PPE requirements may be reduced or modified as specified in the WPS.

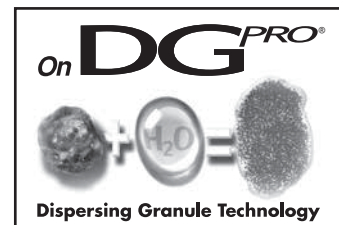
**SGN 150**

**Net Wt. 40 Lbs. (18.14 kg)**



**Turf Products**

**DUOCIDE™ INSECT CONTROL**



**NON-AGRICULTURAL USE REQUIREMENTS**

The requirements in this box apply to use of this product that are not within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR part 170). The Worker Protection Standard applies when this product is used to produce agricultural plants on farms, forests, nurseries, or green houses. Do not enter or allow others to enter the treated area until dusts have settled. In addition, if directions for use require watering-in, do not enter or allow others to enter the treated area (except those involved in the watering-in) until the watering-in is completed and the area has dried.

**READ ALL DIRECTIONS PRIOR TO APPLICATION OF THE PRODUCT**

**DIRECTIONS FOR USE**

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

**RESTRICTIONS**

Product must be watered in immediately after application to lawns. Do not apply more than 4 times per year to lawns. The minimum reapplication interval to lawns is seven days. The maximum application rate for kill of ticks is 1.15 lbs product per 1000 sq. ft.

In New York State, the product may NOT be applied to any grass or turf areas within 100 feet of a water body (lake, pond, river, stream, wetland or drainage ditch). In New York State, do make a single repeat application of this product if there are signs of renewed insect activity, but not sooner than two weeks after the first application.

**APPLICATION RATES**

Will only kill pests present at the time of application. Pest must be directly contacted to be effective.

PEST	Amount of Product
Armyworms (larvae of Armyworm, Fall Armyworm, Lawn Armyworm, and striped Grassworm), Cutworms, (larvae of Black Cutworm, and Bronze Cutworm), Sod Webworms (larvae of Bluegrass Webworm, Larger Sod Webworm, Western Lawn Moth Cranberry Girdler, Tropical Sod Webworm, and Burrowing Sod Webworm)	(2 lb./1,000 sq. ft.)
Annual Bluegrass Weevil ( <i>Hyperodes</i> ) (Adult), Adults of Bluegrass Billbug, Hunting Billbug, Phoenician Billbug and Denver Billbug, Black Turfgrass Ataenius (Adult), Mealybugs, Leafhoppers, Chinch Bugs (nymphs and adults of Hairy Chinch Bug, Southern Chinch Bug, and Buffalograss Chinch bug), Chiggers, Crickets, Darkling Ground Beetles, Earwigs, Essex Skipper, Fire Brats, Grasshoppers, Silverfish, Spittlebugs Springtails	(2-4 lb./1,000 sq. ft.)
Ants, Centipedes, Fleas (Adult), Flea (Larvae), Millipedes, European Crane Fly, Imported Fire Ant (Adults), Mole Cricket (Adult), Mole Crickets (nymphs and adults of Tawny, Southern, Short-winged, West Indian (Changa), Oriental (formerly African) and Native (northern) Mole crickets)	(4-8 lb./1,000 sq. ft.)
White Grubs (larvae of Japanese Beetle, European Chafer, Northern Masked Chafer, Southern Masked Chafer, Oriental Beetle, Asiatic Garden Beetle, May/June beetle ( <i>Phyllophaga</i> spp.), Bluegrass billbug, Hunting Billbug, Phoenician Billbug, Denver (Rocky Mountain) Billbug, Green June beetle, Black Turfgrass ataenius, and Aphodius) and Annual Bluegrass weevil ( <i>Hyperodes</i> weevil) and European Crane fly larvae,	(4-8 lb./1,000 sq. ft.)
Pillbugs (Sowbugs)	(8 lb./1,000 sq. ft.)

**NUISANCE PEST KILL IN AND AROUND FLOWER BEDS AND ORNAMENTAL PLANTINGS AND AROUND THE OUTSIDE OF BUILDINGS.**

Will only kill pests present at the time of application. Pests must be directly contacted to be effective.

Kills Ants (except harvester ants, pharaoh ants and carpenter ants) Armyworms, Centipedes, Crickets, Cutworms, Earwigs, Firebrats, Silverfish, Fleas, Millipedes, Sowbugs: Apply granules uniformly in a 6 foot band around the building at the rate of 2-4 lbs. per 1,000 square feet to shrub and flower beds, foundations, ornamental plantings, and lawn or soil areas immediately adjacent to the building. Treated area must be watered in immediately after application. Repeat treatments as needed up to 3 times per year, but no more than once every seven days.

Spreader Settings					
These spreader settings are not intended to replace calibration. Calibrate spreader equipment before applying product.					
40 lbs. treats 20,000 sq. ft. (0.46 acre) at the 87 lbs. product/acre - LOW RATE (2.0 lbs/1,000 sq. ft.)					
40 lbs. treats 10,000 sq. ft. (0.23 acre) at the 174 lbs. product/acre - MEDIUM RATE (4.0 lbs/1,000 sq. ft.)					
40 lbs. treats 5,000 sq. ft. (0.11 acre) at the 348 lbs. product/acre - HIGH RATE (8.0 lbs/1,000 sq. ft.)					
SPREADER	GROUND SPEED	WIDTH OF COVERAGE	SPREADER SETTINGS		
			LOW RATE	MEDIUM RATE	HIGH RATE
Lb. active ingredient/acre (Bifenthrin, Carbaryl)			0.05 , 2.00	0.10 , 4.00	0.20 , 8.00
Andersons Model 2000/ AccuPro-2000; (cone 6) Andersons 2000 SR/SR-2000 (cone 6)	3 mph	11 feet	J 1/2	M	Q
Scotts R-8A (cone 6)	3 mph	11 feet	I	K 1/2	P
Lesco 020093 (0.25)	3 mph	7 feet	C 1/2	E	H
Lesco 705698 (0.25)	3 mph	7 feet	9	12	18
Lely Models WTR, WFR, HR, 1250 (PTO at 450 rpm) Pattern III-C	4.5 mph	34 feet	4 1/4	5 3/4	7 1/2
Vicon (03 Series)	4.5 mph	26 feet	17	26	39

Note: These spreader settings were established using standard equipment available from the spreader manufacturer at swath widths and speeds typically used within the industry. Calibrate spreader equipment before applying product.

**STORAGE AND DISPOSAL**

Do not contaminate water, food, or feed by storage and disposal. **PESTICIDE STORAGE:** Keep out of reach of children and animals. Store in original container only. Store in cool, dry place and avoid excess heat.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of the product may be disposed of on site or at an approved waste disposal facility.

**CONTAINER DISPOSAL:** Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

**IMPORTANT: READ BEFORE USE:**

Read the entire Directions for Use and the Warranty Disclaimer and Limitation of Liability before using this product. If terms are not acceptable, return the unopened product container at once. By using this product, user or Buyer accepts the following Warranty Disclaimer and Limitation of Liability:

**WARRANTY DISCLAIMER and LIMITATION of LIABILITY:**

Manufacturer warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions. Manufacturer makes NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. To the extent consistent with applicable law, it is Manufacturer's intent to LIMIT ANY LIABILITY FOR SPECIAL, CONSEQUENTIAL OR INCIDENTAL ECONOMIC DAMAGES to refund of purchase price or replacement of product, at Buyer's choice. To the extent consistent with applicable law, Manufacturer DISCLAIMS ANY LIABILITY FOR COMPENSATORY OR OTHER DAMAGES ARISING OUT OF ANY USE CONTRARY TO LABEL DIRECTIONS. Use contrary to label directions is not permitted.

**LEGAL RIGHTS:**

THIS LIMITED WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS; YOU MAY HAVE OTHER RIGHTS THAT VARY FROM STATE/JURISDICTION TO STATE/JURISDICTION.

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