

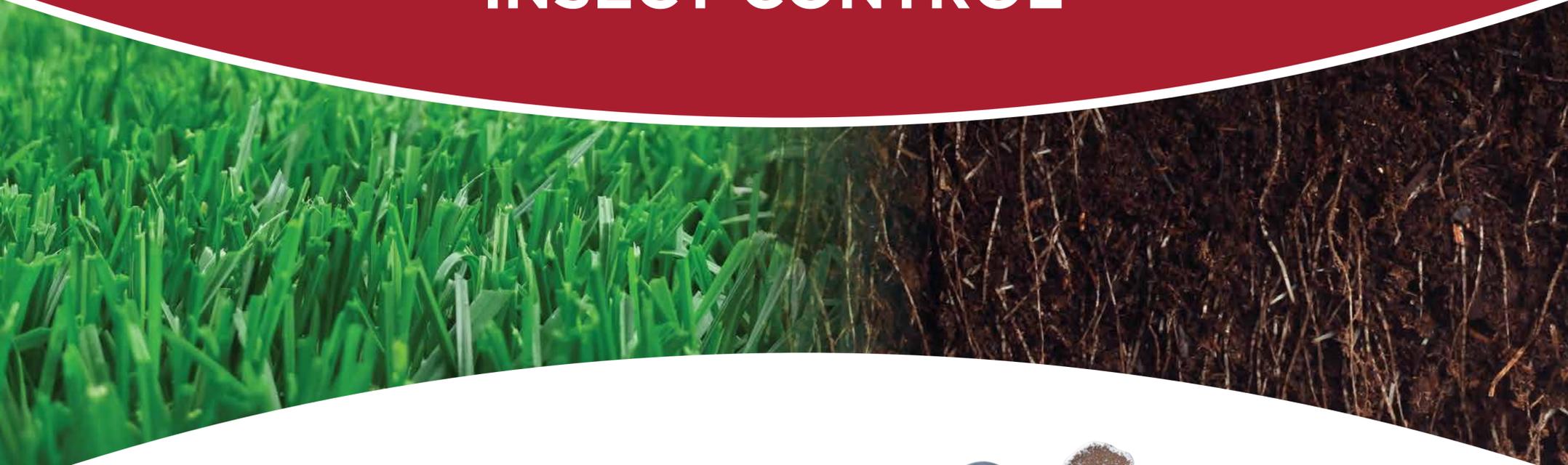
CARBARYL	GROUP	1A	INSECTICIDE
BIFENTHRIN	GROUP	3A	INSECTICIDE

The   
**Andersons**<sup>®</sup>

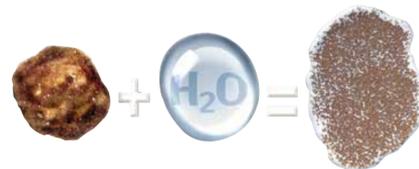
TURF PRODUCTS

**DUOCEIDE**<sup>®</sup>

**INSECT CONTROL**



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



**Dispersing Granule Technology**

ACTIVE INGREDIENTS:  
 Carbaryl (1-naphthyl N-methylcarbamate) ..... 2.300%  
 Bifenthrin\* ..... 0.058%  
 OTHER INGREDIENTS: ..... 97.624%  
 Total ..... 100.00%  
 \*Cis isomers 97% minimum, trans isomers 3% maximum  
 CAS No. 82657-04-6  
 U.S. Patent #7,867,507  
 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.

For control of selected surface and subsurface pests on turfgrass sites including residential lawns, parks and athletic fields and control of pests in and around flower beds, ornamental plantings and around buildings. Not for use on golf courses and sod farms.

- Ideal for control of Adult Mole Crickets
- Effective for curative treatment of white grubs
- Effective on difficult to control southern chinch bugs

**KEEP OUT OF REACH OF CHILDREN**  
**CAUTION**  
 SEE BACK PANEL FOR ADDITIONAL  
 PRECAUTIONARY STATEMENTS AND FIRST AID

**COVERS UP TO 20,000 SQ. FT.**  
**NET WT. 40.00 LBS (18.14 KG)**

# THE ANDERSONS TURF PRODUCTS

## DUOCIDE® INSECT CONTROL

### KEEP OUT OF REACH OF CHILDREN

## CAUTION

### PRECAUTIONARY STATEMENTS

#### FIRST AID

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

**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. Harmful if absorbed through the skin, swallowed, or inhaled. Avoid breathing dust. 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 or using the toilet. Wear long sleeved shirt and long pants, socks, shoes and chemical resistant gloves. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Care should be used when applying to avoid fish and reptile pets in/around ornamental ponds. Remove contaminated clothing before reuse.

**USER SAFETY REQUIREMENTS:** 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.

#### 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)

Loaders, applicators, and other handlers must wear:

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

#### 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. Discharge from rice fields may kill aquatic and estuarine invertebrates. 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.

#### 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.

### DIRECTIONS FOR USE

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

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

Apply this product directly to the lawn or garden area. Water treated area as directed on the label.

Product must be watered in immediately after application to lawns.

Treat surfaces to ensure thorough coverage but avoid runoff.

For applications at rates above 0.34 lbs bifenthrin /A (588 lbs product/A), users must water the treated immediately after application.

Spot treatments must not exceed two square feet in size (for example, 2 ft by 1 ft or 4 ft by 0.5 ft.).

#### RESISTANCE MANAGEMENT:

For resistance management, please note that The Andersons Turf Products DuoCide Insect Control contains both a Group 1A and Group 3A insecticides. Any insect/mite population may contain individuals naturally resistant to The Andersons Turf Products DuoCide Insect Control and other Group 1A or Group 3A insecticides. The resistant individuals may dominate the insect/mite population if these insecticides/acaricides are used repeatedly in the same fields. Appropriate resistance-management strategies should be followed.

To delay insecticide/acaricide resistance, take the following steps:

Rotate the use of The Andersons Turf Products DuoCide Insect Control or other Group 1A and Group 3A insecticides within a growing season, or among growing seasons, with different groups that control the same pests. Avoid application of more than 4 times of The Andersons Turf Products DuoCide Insect Control or other insecticides in the same group in a season

Use tank mixtures with insecticides/acaricides from a different group that are equally effective on the target pest when such use is permitted. Do not rely on the same mixture repeatedly for the same pest population. Consider any known cross-resistance issues (for the targeted pests) between the individual components of a mixture. In addition, consider the following recommendations provided by the Insecticide Resistance Action Committee (IRAC):

- Individual insecticides selected for use in mixtures should be highly effective and be applied at the rates at which they are individually registered for use against the target species.
- Mixtures with components having the same IRAC mode of action classification are not recommended for insect resistance management.

- When using mixtures, consider any known cross-resistance issues between the individual components for the targeted pest(s).

- Mixtures become less effective if resistance is already developing to one or both active ingredients, but they may still provide pest management benefits.

- The insect resistance management benefits of an insecticide mixture are greatest if the two components have similar periods of residual insecticidal activity. Mixtures of insecticides with unequal periods of residual insecticide activity may offer an insect resistance management benefit only for the period where both insecticides are active.

- Adopt an integrated pest management program for insecticide/acaricides use that includes scouting, uses historical information related to pesticide use, crop rotation, record keeping, and which considers cultural, biological and other chemical control practices.

- Monitor after application for unexpected target pest survival. If the level of survival suggests the presence of resistance, consult with your local university specialist or certified pest control advisor.

- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for the specific site and pest problems in your area.

- For further information or to report suspected resistance contact The Andersons at 1-800-757-8951

#### RESTRICTIONS

- 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.

- Do not apply more than 690 lbs. of this product (0.4 lbs. bifenthrin, 16 lbs. carbaryl) per acre per year.

- For soil or foliar applications, do not apply within 25 feet of lakes, reservoirs, rivers, permanent streams, marshes or natural ponds, estuaries and commercial fish farm ponds.

- Do not make applications during rain.

- Do not apply the product into fish pools, ponds, streams, or lakes. Do not apply directly to sewers or storm drains, or to any area like a drain or gutter where drainage to sewers, storm drains, water bodies, or aquatic habitat can occur.

- Do not allow the product to enter any drain during or after application.

- Do not apply directly to impervious horizontal surfaces such as sidewalks, driveways, and patios except as a spot or crack-and crevice treatment.

- Do not apply or irrigate to the point of runoff.

- Do not apply when the wind speed is greater than 15 mph.

- 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.

- Not for use on golf courses, sod farms, nurseries, commercial greenhouses or grass grown for seed.

- Do not apply more than 4 times per year to lawn. The minimum reapplication interval to lawns is seven days.

- For outdoor use only.

- Aerial application is prohibited.

#### TURFGRASS PEST CONTROL

##### Turfgrass Information

This product controls surface and subsurface feeding pests on turfgrass sites (lawns, sod, turf areas) such as, but not limited to: residential and commercial lawns, grounds or lawns around business and office complexes, shopping centers, multi-family and residential apartment complexes, airports, military and other institutions, cemeteries, parks and picnic areas, playgrounds, schools, athletic fields.

The active ingredients in this product also provide both curative and residual control of listed surface feeding pests.

The regional differences in pest species pressure, timing for optimal control, pest monitoring methods and other particulars for your location will vary, so consult your cooperative extension service for details. Most states have taxpayer-supported internet web sites and other services to provide this very helpful information. Please use and continue to support your local extension services.

#### Application Directions

Apply uniformly over the treatment area with either a broadcast or drop type spreader, avoiding spreaders which will apply product in narrow, concentrated bands. Apply only the specified amount in the following table. Calibrate the spreader before use and check

SPREADER SETTINGS					
These spreader settings are not intended to replace calibration. Please calibrate your spreader 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
The Andersons 2000 series (cone 6)			J 1/2	M	Q
The Andersons LCO-1000					
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	10 1/2	12 1/2	16 1/2
Lely Models WTR, WFR, HR, 1250 (PTD 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
The Andersons Yard Star 2750	3 mph	7 feet	11 1/2	15	19
Agri-Fab Broadcast	3 mph	7 feet	2 1/2	4 1/2	7 1/2
Brinly 20 Series Push Broadcast	3 mph	7 feet	11 1/2	15	19
Chapin Broadcast	3 mph	7 feet	11 1/2	15	19
Earthway Broadcast	3 mph	7 feet	11 1/2	15	19
Echo Broadcast	3 mph	7 feet	2 3/4	5	8
Scotts Broadcast*	3 mph	7 feet	2 2/3	5	8

\*Includes EdgeGuard, Elite, Standard, Basic, LawnPro & Speedy Green 1000 - 3000

Note: These spreader settings were established using standard equipment available from the spreader manufacturer at swath widths and speeds typically used within the industry. It is recommended that all spreader equipment be calibrated at the time of application to achieve the desired application rate.

#### 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)	87 lbs./acre (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	87-174 lb./acre (2-4 lb./1,000 sq. ft.)
Ants, Centipedes, Fleas (Adult), Flea (Larvae), Millipedes, Ticks, Deer Ticks, American Dog Ticks, European Crane Fly, Imported Fire Ant (Adults), Mole Cricket (Adult), Mole Crickets (nymphs and adults of Tawny, Southern, Shortwinged, West Indian (Changa), Oriental (formerly African) and Native (northern) Mole crickets)	174 - 348 lb./acre (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 ataeenius, and Aphodius) and Annual Bluegrass weevil ( <i>Hyperodes</i> weevil) and European Cranefly larvae	preventative: 87-174 lb./acre (2-4 lb./1,000 sq. ft.)  curative: 174 - 348 lb./acre (4-8 lb./1,000 sq. ft.)
Pillbugs (Sowbugs)	348 lb./acre (8 lb./1,000 sq. ft.)

#### NUISANCE PEST CONTROL IN AND AROUND FLOWER BEDS AND ORNAMENTAL PLANTINGS AND AROUND BUILDINGS.

Will only kill pests present at the time of application. Pest 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.

#### 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 HANDLING:** Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. 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.

Product of U.S.A.

**The Andersons**

MANUFACTURED BY:  
The Andersons, Inc.  
PO Box 119  
Maumee, OH 43537

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The Andersons DuoCide Insect Control (40 lb)  
New



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