

**ARENA™ 50 WDG
INSECTICIDE**

INSECTICIDE

COMMERCIAL

GROUP

4 A

INSECTICIDE

A WATER DISPERSIBLE GRANULAR (WDG) INSECTICIDE FOR USE ON TURFGRASS
(INCLUDING GOLF COURSES, SOD FARMS MUNICIPAL, INDUSTRIAL AND
RESIDENTIAL TURF)

GUARANTEE: Clothianidin..... 50%

**KEEP OUT OF REACH OF CHILDREN
READ THE LABEL BEFORE USING**

REGISTRATION NO.: 29383
PEST CONTROL PRODUCTS ACT

Net Contents: 50g – 25kg

Valent Canada, Inc.
107 Woodlawn Rd West, Suite 502-B
Guelph, ON, N1H 1B4
www.valent.ca
1-800-682-5368

NOTICE TO USER:

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *PEST CONTROL PRODUCTS ACT* to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.

FIRST AID:

- 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 centre 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 centre or doctor for treatment advice.
- IF INHALED:** Move the person to fresh air. If the person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.
- IF SWALLOWED:** Call a poison control centre or doctor immediately for treatment advice. Have the person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

TOXICOLOGICAL INFORMATION:

There is no specific antidote for this product. Treat symptomatically.

ENVIRONMENTAL HAZARDS:

Toxic to aquatic organisms, birds, small wild mammals and non-target terrestrial plants. Observe buffer zones specified under DIRECTIONS FOR USE.

Toxic to bees exposed to direct treatment, drift, or residues on flowering crops or weeds.

DO NOT apply this product to flowering crops or weeds if bees are visiting the treatment area. Minimize spray drift to reduce harmful effects on bees in habitats close to the application site.

Toxic to certain beneficial insects. Minimize spray drift to reduce harmful effects on beneficial insects in habitats next to the application site such as hedgerows and woodland.

Clothianidin is persistent and may carryover. It is recommended that any products containing Clothianidin not be used in areas treated with this product during the previous season.

The use of this chemical may result in contamination of groundwater particularly in areas where soils are permeable (e.g. sandy soil) and/or the depth to the water table is shallow.

To reduce runoff from treated areas into aquatic habitats avoid application to areas with a moderate to steep slope, compacted soil, or clay.

Avoid application when heavy rain is forecast.

Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip between the treated area and the edge of the water body.

IN CASE OF EMERGENCY INVOLVING A POISONING OR MAJOR SPILL CALL

1-800-682-5368

PRECAUTIONS:

KEEP OUT OF THE REACH OF CHILDREN.

Causes slight to moderate eye irritation. DO NOT get into eyes. Avoid contact with eyes, skin or clothing. Wash hands thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

During mixing, loading, application, clean-up and repair, wear a long-sleeved shirt, long pants, chemical-resistant gloves made of any waterproof material (such as butyl or nitrile), and shoes plus socks. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Wash hands before eating, drinking, and chewing gum, using tobacco or using the toilet. Remove personal protection equipment (PPE) immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing. Keep and wash PPE separately from other laundry.

Apply only when the potential for drift to areas of human habitation or areas of human activity such as houses, cottages, schools and recreational areas is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment and sprayer settings.

Restricted Entry Intervals

For commercial sod farms:

DO NOT enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours after application.

For turf (such as industrial and municipal grounds, residential lawns, and golf courses):

DO NOT allow public use of treated areas until sprays have dried.

DISPOSAL/DECONTAMINATION:

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill and for clean up of spills.

Container Disposal

Recyclable container

Do not reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

1. Empty container thoroughly into spray tank. Triple- or pressure rinse the empty container. Add the rinsings to the spray mixture in the tank
2. Make the empty, rinsed container unsuitable for further use.

If there is no container site in your area, dispose of the container in accordance with provincial requirements

STORAGE:

To prevent contamination store this product away from food or feed. Keep pesticide in original container. Store in a cool, dry, secure, well ventilated area. Do not put formulation or dilute spray solution into food or drink containers. Do not store or transport near feed or food. Not for use or storage in or around the home.

RESISTANCE MANAGEMENT:

For resistance management, please note that ARENA 50 WDG INSECTICIDE contains a Group 4A insecticide. Any insect population may contain individuals naturally resistant to ARENA 50 WDG INSECTICIDE and other Group 4A insecticides. The resistant individuals may dominate the insect population if this group of insecticides is used repeatedly in the same fields. Other resistance mechanisms that are not linked to site of action but are specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed. To delay insecticide resistance:

- Where possible, rotate the use of ARENA 50 WDG INSECTICIDE or other Group 4 or 4A insecticides with different groups that control the same pests in a field.
- Use tank mixtures with insecticides from a different group when such use is permitted.
- Insecticide use should be based on an IPM program that includes scouting, record keeping, and considers cultural, biological and other chemical control practices.
- Monitor treated pest populations for resistance development.
- 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 and to report suspected resistance, contact Valent Canada, Inc. at 1-800-682-5368 or at www.valent.ca.

DIRECTIONS FOR USE

GENERAL INFORMATION

ARENA 50 WDG INSECTICIDE is a broad spectrum insecticide for control of a wide spectrum of insect pests infesting turfgrass. When applied as directed, ARENA 50 WDG INSECTICIDE provides residual insect control. The specific length of residual control depends on environmental factors, plant growth, dosage rate and degree of insect infestation.

As this product is not registered for the control of pests in aquatic systems, **DO NOT** use to control aquatic pests.

GENERAL INSTRUCTIONS

- If one application of ARENA 50 WDG INSECTICIDE has been applied and the insect population requires additional treatments, use another registered insecticide that is not in the neonicotinoid class of chemistry (Group 4 or 4A Insecticide).
- **DO NOT** apply by air.

MIXING INSTRUCTIONS

1. Prior to mixing, clean the spray tank by following the sprayer clean-up recommendations on the previously sprayed product label.
2. Fill the spray tank one-half full of water and start agitation.
3. Add the required amount of ARENA 50 WDG INSECTICIDE to the tank.
4. Continue agitation while filling tank to the desired spray volume.
5. Maintain agitation during mixing and spraying. **DO NOT** allow the spray mixture to stand without agitation.
6. After use, thoroughly rinse and clean the spray tank. Flush the spray equipment thoroughly following each use and apply the rinsate to a previously treated area.

DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

Field sprayer application: **DO NOT** apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE) fine classification. Boom height must be 60 cm or less above the crop or ground.

Buffer zones:

The buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive terrestrial habitats (such as grasslands, forested areas, shelter belts, woodlots, hedgerows, riparian areas and shrublands), sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) and estuarine/marine habitats.

| Method of application | Crop | Buffer Zones (metres) Required for the Protection of: | | | | |
|-----------------------|------|---|------------------|--------------------------------------|------------------|---------------------|
| | | Freshwater Habitat of Depths: | | Estuarine/Marine Habitats of Depths: | | Terrestrial habitat |
| | | Less than 1 m | Greater than 1 m | Less than 1 m | Greater than 1 m | |
| Field sprayer* | Turf | 4 | 2 | 1 | 1 | 1 |

*For field sprayer application, buffer zones can be reduced with the use of drift reducing spray shields. When using a spray boom fitted with a full shield (shroud, curtain) that extends to the crop canopy, the labelled buffer zone can be reduced by 70%. When using a spray boom where individual nozzles are fitted with cone-shaped shields that are no more than 30 cm above the crop canopy, the labelled buffer zone can be reduced by 30%.

DIRECTIONS FOR USE ON TURFGRASS

| Pest | Rate (g/100 m ²) | Remarks |
|---|------------------------------|---|
| European Chafer Japanese Beetle Masked Chafers Asiatic Garden Beetle Oriental Beetle | 2.5-5.0 (250-500 g/ha) | <p>Preventative applications - Make applications through peak egg hatch of target species, beginning as early as the first adults appear.</p> <p>Curative applications – Curative applications are considered applications after egg hatch of the target species or when obvious turf damage from current generation has occurred. Use the upper end of the rate range when making applications post egg hatch. Late season applications (late summer or early fall) may provide suppression only.</p> <p>Ensure each application of ARENA 50 WDG INSECTICIDE is followed by sufficient irrigation or rainfall to move active ingredient through the thatch.</p> <p>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.</p> |
| Hairy Chinch Bug | 3.5-5.0 (350-500 g/ha) | Apply ARENA 50 WDG INSECTICIDE when insect populations reach damaging thresholds. Use the upper end of the rate range when pest pressure is high or when treating areas with very low damage thresholds (e.g., golf greens, sod farms). |
| Annual Bluegrass Weevil | 5.5-7.0 (550-700 g/ha) | Apply ARENA 50 WDG INSECTICIDE when insect populations reach damaging thresholds. For optimal control, target 2nd to 3rd instar larvae. Early season applications to overwintered adults may provide suppression only. |
| Bluegrass Billbug | 4.5 (450 g/ha) | When adults are first identified in the spring. |
| European Crane Fly (Leather Jacket) | 5.5 (550 g/ha) | Apply ARENA 50 WDG INSECTICIDE in the spring, when larvae are mature but prior to pupation OR in the fall prior to egg hatch. Only apply ARENA 50 WDG INSECTICIDE when populations of leather jackets (European crane fly) reach damaging thresholds. |
| <p>For use on all areas of golf course turfgrass, sod farms, and for use in professional lawn care on residential, municipal, industrial and recreational turfgrass. Apply ARENA 50 WDG INSECTICIDE in sufficient water (4-8 L/100 m²) to provide optimal distribution in the treated area. DO NOT make more than 1 application per season. Avoid mowing turfgrass until after irrigation or rainfall has occurred so that uniformity of application will not be affected.</p> | | |

Arena is a trademark and/or registered trademark of Sumitomo Chemical Corporation in the United States and elsewhere.