

**Valent USA Corporation**

**Gnatrol®**  
**BIOLOGICAL LARVICIDE**

**ACTIVE INGREDIENT:**

*Bacillus thuringiensis*, subspecies *israelensis*, 600 International  
 Toxic Units (ITU) per mg (Equivalent to 2.19 billion ITU per gallon;  
 0.576 billion ITU per liter) ..... 0.6%

**INERT INGREDIENTS** ..... 99.4%

**TOTAL** ..... 100.0%

EPA Reg. No. 73049-11 EPA Est. No. 33762-IA-001

List No. 11008

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

For **MEDICAL** and **TRANSPORT** Emergencies **ONLY** Call 24 Hours A Day 1-877-315-9819. For All Other Information Call 1-800-89-Valent.

**STATEMENT OF PRACTICAL TREATMENT**

**If in Eyes:** Flush with plenty of water. Get medical attention if signs of irritation persist.

**If on Skin:** Wash thoroughly with plenty of soap and water. Get medical attention if signs of irritation persist.

**PRECAUTIONARY STATEMENTS**

**Hazard To Humans (And Domestic Animals)**

**CAUTION**

Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing.

**Personal Protective Equipment (PPE)**

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks

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.

**Physical or Chemical Hazards**

Diluted or undiluted Gnatrol can cause corrosion if left in prolonged contact with aluminum spray system components. Rinse spray system with plenty of clean water after use.

**STORAGE AND DISPOSAL**

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

**Storage:** Store in a cool [59°F to 86°F (15°C to 30°C)], dry place.

**Pesticide Disposal:** Wastes resulting from use of this product may be disposed of on site or at an approved waste disposal facility.

**Container Disposal:** Triple rinse (or equivalent). Then puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke. Do not reuse container.

**AGRICULTURAL USE SITE DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulations. Do not apply directly to treated drinking water reservoirs or drinking water receptacles.

**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 intervals. 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 4 hours.

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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.

PPE required for early entry into 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
- Waterproof gloves
- Shoes plus socks

**CHEMIGATION**

Gnatrol can be applied by injection into drip or overhead (sprinkler) irrigation systems.

Apply this product only through: sprinkler, including solid set, flood (basin) or drip (trickle) irrigation systems. Do not apply this product through any other type of irrigation system.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from nonuniform distribution of treated water.

If you have questions about calibration, you should contact State Extension Service Specialists, equipment manufacturers or other experts.

Do not connect an irrigation system used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.

A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

**GREENHOUSE—DRIP (TRICKLE) AND SPRINKLER CHEMIGATION**

Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.

Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of the pesticide introduction. As an option to the RPZ the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a water pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

The system must contain a functional check valve, vacuum relief valve and low pressure drain, appropriately located on the irrigation pipeline to prevent water source contamination from backflow.

The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

If Gnatrol needs to be diluted prior to injection, material may be mixed separately and then put into the injector. Agitation may be necessary if materials are kept more than one day. Gnatrol may be applied continuously. Where supply tanks are used for continuous application, fill the supply tank with the desired quantity of water. Start mechanical or hydraulic agitation to provide moderate circulation before adding Gnatrol. Gnatrol suspends readily in water and will stay suspended over normal application periods. Avoid continuous agitation of spray mixture during spraying. Brief recirculation may be necessary if the spray mixture has sat for several hours.

**APPLICATION DIRECTIONS**

**Fungus Gnat Control**

Fungus Gnat Habitat	Suggested Range Rate
Ornamental and nursery plantings in greenhouse or potting soil mixtures	Light infestation: 16-32 oz/100 gallons* applied as a soil drench
Vegetable plants such as the following: Tomatoes, leafy and cole crops, cucumbers, peppers and eggplants	Heavy infestation: 64-128 oz/100 gallons** applied as a soil drench

\*16-32 oz/100 gallons = 1-2 tsp/gallon

\*\*64-128 oz/100 gallons = 4-8 tsp/gallon

Apply Gnatrol with adequate water by soil drench to sufficiently wet the soil surface above and under benches where larvae are found. Areas under benches

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should be treated at high rates as this is one of the primary breeding areas. Reapply as needed. In situations where all life forms (eggs, larvae, pupae and adults) are present, such as with existing infestations, make three (3) weekly applications at the suggested rate range for heavy infestations. Regular follow-up applications using the suggested light infestation rates will establish a long term maintenance program.

Gnatrol is a larvicide and will not control adult gnats, therefore, applications must be timed for a stage of development when larvae are present in the soil.

Fungus gnat larvae generally respond to Gnatrol treatment within 24 hours following application.

Gnatrol can be applied by injection into drip or overhead irrigation systems.

Gnatrol is not known to be phytotoxic to ornamental plant species. However, since all ornamental plant species have not been evaluated, sensitivity to Gnatrol should be checked on several plants prior to wide scale usage.

#### PRECAUTIONS

Important: Gnatrol should not be injected in combination with fertilizers or fungicides containing copper or chlorine, as this may neutralize the active ingredients. (Chlorine levels in potable water supplies should not present a problem with Gnatrol performance).

Do not apply soil drenches to plants under stress, or follow application with excessive amounts of water.

For best results, apply drenches toward the end of irrigation period.

#### NON-AGRICULTURAL USE SITE DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

For use on plants intended for aesthetic purposes and being grown in interior plantscapes and indoor ornamental gardens. Not for use on plants being grown for sale or other commercial use, or for commercial seed production, or for research purposes.

Do not apply directly to treated finished drinking water reservoirs or drinking water receptacles. Do not apply this product to the non-agricultural use sites through any type of irrigation system.

#### Application Directions

##### Fungus Gnat Control

Fungus Gnat Habitat	Suggested Range Rate
Indoor ornamental and plantscape use	Light infestation: 16-32 oz/100 gallons* applied as a soil drench Heavy infestation: 64-128 oz/100 gallons** applied as a soil drench

\*16-32 oz/100 gallons = 1-2 tsp/gallon

\*\*64-128 oz/100 gallons = 4-8 tsp/gallon

Apply Gnatrol with adequate water by soil drench to sufficiently wet the soil surface. Reapply as needed. In situations where all life forms (eggs, larvae, pupae and adults) are present, such as with existing infestations, make three (3) weekly applications at the suggested rate range for heavy infestations. Regular follow-up using suggested light infestation rates will establish a long-term maintenance program.

Gnatrol is a larvicide and will not control adult gnats, therefore, applications must be timed for a stage of development when larvae are present in the soil.

Fungus gnat larvae generally respond to Gnatrol treatment within 24 hours following application.

Gnatrol is not known to be phytotoxic to ornamental plant species. However, since all ornamental plant species have not been evaluated, sensitivity to Gnatrol should be checked on several plants prior to wide scale usage.

#### NOTICE TO USER

SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE CONCERNING THE USE OF THIS PRODUCT OTHER THAN AS INDICATED ON THE LABEL. USER ASSUMES ALL RISKS OF USE, STORAGE OR HANDLING NOT IN STRICT ACCORDANCE WITH ACCOMPANYING DIRECTIONS.

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