

Gnatrol DG

Biological Larvicide

Dispersible Granule

(*Bacillus thuringiensis*, Serotype H-14)

COMMERCIAL

GUARANTEE: *Bacillus thuringiensis* subsp. *israelensis*, Serotype H-14, strain HD-14, 3,000 International Toxic Units (ITU) per milligram (3 billion ITU/kg.).

Warning, contains the allergen soy.
KEEP OUT OF REACH OF CHILDREN
READ LABEL BEFORE USING
POTENTIAL SENSITIZER

Update

REGISTRATION NO. 27821 PEST CONTROL PRODUCTS ACT

NET WEIGHT:

Lot. No.

Date of Manufacture:

Registrant:
Valent BioSciences Corporation
870 Technology Way
Libertyville, Illinois 60048
USA

Canadian Agent:
Valent BioSciences Canada, Ltd.
40 King Street West, Suite 2100
Toronto, Ontario M5H 3C2

DIRECTIONS FOR USE

For the reduction of populations of sciarid flies in the production of *Agaricus bisporus* mushrooms. Gnatrol® DG Biological Larvicide must be ingested by larvae to be effective. After larvae have ingested a sufficient dose of Bt toxin, feeding ceases and death will follow after several days.

A maximum of two applications may be made per cycle of production (one in compost and/or one in casing).

Monitor production facilities for sciarid flies, and treat the compost or casing material only if treatment thresholds are exceeded. Refer to provincial guidelines for thresholds.

For application in compost: Apply 85g of Gnatrol® DG Biological Larvicide / m³ of compost (equivalent to 1500 g of Gnatrol® DG Biological Larvicide / 100 m² of growing surface, assuming a compost layer 18 cm deep). Mix dry or as a slurry into compost at spawning.

For application in casing material: Apply 200 g -300 g of Gnatrol® DG Biological Larvicide / m³ of casing material (equivalent to 1000 - 1500 g of Gnatrol® DG Biological Larvicide / 100 m² of growing surface, assuming a casing layer 5 cm deep). Mix dry or as a slurry into casing material, just before placing casing on the compost.

Gnatrol® DG Biological Larvicide should be thoroughly mixed with a mechanical mixer until granules or slurry are evenly dispersed throughout all of the compost or casing material. Good distribution of Gnatrol® DG Biological Larvicide throughout the growth medium is important to maximize the ingestion of Gnatrol® DG Biological Larvicide by larvae.

Gnatrol® DG Biological Larvicide is a microbial larvicide and will become ineffective if subjected to sterilization. Therefore, the addition of Gnatrol® DG Biological Larvicide should not be made prior to the casing or compost material being steamed, pasteurized or fumigated.

Gnatrol® DG Biological Larvicide has not been tested for adverse effects on all strains of common commercial mushrooms (*Agaricus bisporus*). Therefore, since mushroom strains may vary in their sensitivity, Gnatrol® DG Biological Larvicide should be tested on a section of mushroom shelf before using it on a larger scale.

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

PRECAUTIONS:

KEEP OUT OF REACH OF CHILDREN

May cause sensitization. Avoid contact with skin, eyes and clothing. Avoid breathing dusts or sprays. Wear a long sleeved shirt, long pants, shoes plus socks, waterproof gloves, and a dust/mist filtering respirator (MSH/NIOSH approval number prefix TC-21C) or a NIOSH approved respirator with any -95, R-95, P-95 or HE filter for biological products when handling, mixing/loading or applying the product, and during all clean-up and repair activities. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

If this pest control product is to be used on commodities that may be exported to the U.S. and if you require information on acceptable residue levels in the U.S. contact 1-866-375-4648 or www.croppro.org.

FIRST AID INSTRUCTIONS:

- If on skin/clothing:** Take off contaminated clothing. Wash skin with plenty of soap and water.
- If inhaled:** Move to fresh air.
- If in eyes:** Hold eye open and rinse slowly and gently with water. Remove contact lenses, if present, then continue rinsing eye.
- If swallowed:** Rinse mouth and throat with copious amounts of water.
- General:** Seek medical attention immediately if irritation or signs of toxicity occur and persist or are severe. Take container, label, or product name and Pest Control Product Registration Number with you when seeking medical attention.

TOXICOLOGICAL INFORMATION:

Treat symptomatically.

STORAGE

Store at temperatures between 0° C and 25° C. Store container upright and keep tightly closed when not in use. This product should be used within 12 months of the date of manufacture.

DO NOT contaminate food/feed by storage.

DISPOSAL

Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank. Follow provincial instruction for any required additional cleaning of the container prior to its disposal. Make the empty container unsuitable for further use. Dispose of the container in accordance with provincial requirements. 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.

NOTICE TO BUYER

Seller's guarantee shall be limited to the terms set out on the label, and subject thereto, the buyer assumes the risk to persons or property arising from the use or handling of this product and accepts the product on that condition.

NOTICE TO USER: This control product is to be used only in accordance with the direction on this label. It is an offence under the *Pest Control Products Act* to use a control product under unsafe conditions.

This label transcript service is offered by the Pest Management Regulatory Agency to provide efficient searching for label information. This service and this information do not replace the official hard-copy label. The PMRA does not provide any guarantee or assurance that the information obtained through this service is accurate, current or correct, and is therefore not liable for any loss resulting, directly or indirectly, from reliance upon this service.