

# **COTTON - ARMYWORMS, COTTON BOLLWORM, ETC.**

## General Information

### RESISTANCE MANAGEMENT

Danitol 2.4 EC Spray contains a Group 3 insecticide. Insect biotypes with acquired resistance to Group 3 insecticides may eventually dominate the insect population if Group 3 insecticides are used repeatedly in the same field or in successive years as the primary method of control for targeted species. This may result in partial or total loss of control of those species by Danitol 2.4 EC Spray or other Group 3 insecticides.

To delay insecticide resistance consider:

- Avoiding the consecutive use of Danitol 2.4 EC Spray or other Group 3 insecticides that have a similar target site of action, on the same insect species.
- Using tank mixtures or premixes with insecticides from a different target site of action Group as long as the involved products are all registered for the same use and have different sites of action.
- Basing insecticide use on a comprehensive Integrated Pest Management (IPM) program.
- Monitoring treated insect populations for loss of field efficacy.
- Contacting your local extension specialist, certified crop advisors and/or manufacturer for insecticide resistance management program and/or IPM recommendations for the specific site and resistant pest problems.

For further information or to report suspected resistance, you may contact Valent U.S.A. Corporation at the toll free number: 1-800-682-5368.

### CROP ROTATION

There are no restrictions on rotational crops.

### MIXING INSTRUCTIONS

Danitol 2.4 EC Spray mixes readily with water. When tank mixing, all applicable directions, restrictions and precautions on the EPA registered labels are to be followed.

### RESISTANCE MANAGEMENT

Some insects are known to develop resistance to products used repeatedly for control. Because the development of resistance cannot be predicted, the use of this product should conform to resistance management strategies established for the use area. Consult your local or state agricultural authorities for details.

If resistance to this product develops in your area, this product or other products with similar mode of action, may not provide adequate control. If poor performance cannot be attributed to improper application or extreme weather conditions, a resistant strain of insect may be present. If you experience difficulty with control and resistance is a reasonable cause, immediately consult your local company representative or agricultural advisor for the best alternative method of control for your area.

#### RESTRICTIONS AND LIMITATIONS

Do not apply under conditions involving possible drift to food, forage or other plantings that might be damaged or the crop thereof, rendered unfit for sale, use or consumption.

Do not apply this product through any type of irrigation system. Not for use in or around residential areas.

#### MITIGATION OF SPRAY DRIFT

OBSERVE THE FOLLOWING PRECAUTIONS WHEN MAKING ANY APPLICATION IN THE VICINITY OF AQUATIC HABITATS (SUCH AS, BUT NOT LIMITED TO LAKES; RESERVOIRS; RIVERS; PERMANENT STREAMS; MARSHES OR NATURAL PONDS; ESTUARIES; AND COMMERCIAL FISH PONDS).

#### BUFFER ZONES

##### Vegetative Buffer Strip

Construct and maintain a minimum 10 ft wide vegetative filter strip of grass or other permanent vegetation between the field edge and down gradient aquatic habitat (such as, but not limited to, lakes, reservoirs, rivers, permanent streams, marshes or natural ponds, estuaries and commercial fish ponds).

Only apply products containing Danitol 2.4 EC Spray onto fields where a maintained vegetative buffer strip of at least 10 ft exists between the field and down gradient aquatic habitat.

For guidance, refer to the following publication for information on constructing and maintaining effective buffers:

Conservation Buffers to Reduce Pesticide Losses. Natural Resources Conservation Services. USDA, NRCS. 2000. Fort Worth, Texas. 21 pp.

[http://www.nrcs.usda.gov/Internet/FSE\\_DOCUMENTS/nrcs143\\_023819.pdf](http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs143_023819.pdf)

Buffer Zone for Ground Application (groundboom, overhead chemigation or airblast): Do not apply by ground within 25 ft of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, permanent streams, marshes or natural ponds, estuaries and commercial fish ponds).

Buffer Zone for ULV Aerial Applications: Do not apply within 450 ft of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, permanent streams, marshes, natural ponds, estuaries and commercial fish ponds).

Buffer Zone for Non-ULV Aerial Applications: Do not apply by air within 150 ft of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, permanent streams, marshes or natural ponds, estuaries and commercial fish ponds).

Limitations, Restrictions, and Exceptions

COTTON

RATE

10-2/3 - 16 (0.2 - 0.3 lb ai/A) + 0.5 - 2.0 lb/A DiPel DF

SPECIAL INSTRUCTIONS

- Apply as a tank mix with air or ground equipment in a seasonal program in adequate water for uniform coverage (a minimum of 3 gals/A by air or a minimum of 20 gals/A by ground).
- Use sufficient spray volume to insure uniform deposition on all plant surfaces.
- Under heavy pest population pressure, use the higher label rates, shorten the spray interval, and/ or raise the spray volume to improve spray coverage.
- Insect control may be improved by the addition of a non-ionic surfactant to the spray solution according to manufacturer's recommendation.
- Comply with all applicable directions, restrictions, PHI's and precautions on the EPA registered labels for DiPel DF and Danitol 2.4 EC Spray.

- Do not apply within 21 days of harvest.
- Do not exceed 2-2/3 pts (42-2/3 fl oz, 0.8 lb ai) total application of Danitol 2.4 EC Spray per acre per season.
- Do not feed gin trash or treated forage to livestock or allow animals to graze on treated fields.

#### OTHER PRECAUTIONS FOR COTTON

Do not make more than a total of 10 synthetic pyrethroid applications (of one product or combination of products) to a cotton crop in one growing season.

Synthetic pyrethroid products include Ammo Insecticide, Asana XL Insecticide, Baythroid Emulsifiable Pyrethroid Insecticide, Capture Insecticide/Miticide, Danitol 2.4 EC Spray, Decis, Fury Insecticide, Karate Insecticide, Mustang Insecticide and SynerGin 2.

All aerial and ground application equipment must be properly maintained and calibrated using appropriate carriers.

Method

[Broadcast/Foliar Air](#)

[Broadcast/Foliar Ground](#)

Pre-Harvest Interval

21 days

Rates

[field rates 0](#)

[field rates 1](#)

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Restricted Entry Interval

24 hours

Timings

[When first pest activity is noticed.](#)