COTTON (NOT FOR USE IN MISSISSIPPI) - BOLL WEEVIL, ETC. - ARIZONA AND CALIFORNIA

General Information

Whirlwind is an emulsifiable concentrate for use in listed crops. Target pests and application rates are provided in the accompanying tables.

The label booklet is not valid for use of this product in the state of Mississippi. For use in the state of Mississippi, refer to Whirlwind supplemental labeling entitled “Use Directions for the State of Mississippi.”

General Use Precautions

Insect control may be reduced at low spray volumes under high temperature and wind conditions.

Some reduction in insect control may occur under unusually cool conditions.

Flood irrigation: To avoid contamination of irrigation tail waters, do not flood irrigate within 24 hours following a soil surface or foliar application of Whirlwind.

Application Guidelines

BROADCAST FOLIAR APPLICATION

Apply with conventional power-operated spray equipment using nozzles and spray pressures recommended for insecticides. Apply Whirlwind in a spray volume of not less than 2 gallons per acre for aerial application equipment (fixed-wing or helicopter) or not less than 10 gallons per acre for ground equipment, unless otherwise specified. Increase spray volume to ensure adequate coverage with increased density and height of crop canopy. See Spray Drift Precautions section for recommendations on droplet size.

GROUND APPLICATION: Orient the boom and nozzles so that uniform coverage is obtained. The swath width should not be wider than the boom. Follow nozzle manufacturer’s recommendations for insecticide nozzles with respect to nozzle
type, pressure, and spacing.

**BROADCAST SOIL APPLICATION**

Apply with conventional power-operated spray equipment that will apply the product uniformly to the soil surface. Use nozzles that produce medium or coarse droplets (235-400 microns). Unless otherwise indicated, a spray volume of 10 gallons or more per acre is recommended. For band application, use proportionally less spray volume.

**AERIAL APPLICATION**

Use a minimum spray volume of 2 gallons per acre and follow recommendations for best management practices for aerial application, above.

Marking of swaths by flagging, permanent markers or use of GPS equipment is recommended.

**CHEMIGATION (SPRINKLER IRRIGATION)**

Whirlwind may be applied to the following crops through sprinkler irrigation equipment: alfalfa, almond (orchard floors only), citrus (orchard floors only), corn (field and sweet), cotton, cranberry, mint, sorghum, soybeans, sugarbeet, orchard floors (pecan and walnut), walnut (orchard floors only), and wheat, or other crops as specified in supplemental labeling. Do not apply this product by chemigation unless specified in crop-specific directions in the label or Dow AgroSciences supplemental labeling. Do not apply to labeled crops through any other type of irrigation system.

Note: Unless otherwise indicated in specific use directions, the application rates for chemigation are the same as those recommended for broadcast application.

**Special Use Directions for Sprinkler Irrigation**

The following use directions must be followed when Whirlwind is applied through sprinkler irrigation systems. Thoroughly clean the injection system and tank of any fertilizer or chemical residues, and dispose of the residues according to state and federal laws. Flush the injector with soap and water. Determine the amount of Whirlwind needed to cover the desired acreage. Mix according to instructions in the Mixing Directions section and bring mixture to desired volume. Do not add crop oil when Whirlwind is applied by chemigation. Maintain continuous agitation during mixing and throughout the application period. Set the sprinkler system to deliver
the desired inches of water per acre. Start the water pump and sprinkler, and let
the system achieve the desired pressure and speed before starting the injector.
Start the injector and calibrate the injector system according to Calibration
instructions in the following Special Use Precautions section. The mixture containing
Whirlwind must be injected continuously and uniformly into the irrigation water line
as the sprinkler is moving to ensure uniform application at the correct rate. When
the application is finished, flush and clean the entire irrigation and injector system
prior to shutting down the system.

Limitations, Restrictions, and Exceptions

Apply as a broadcast foliar spray using aircraft or ground spray equipment in all
states except Arizona and California. Use a higher rate in the rate range when there
is increased pest pressure. Use sufficient spray volume to ensure thorough
coverage of treated plants, but no less than 10 gpa for ground spray equipment or 2
gpa for aircraft equipment. Increase spray volume when foliage is dense and/or pest
population is high and/or under high temperature and wind conditions. Treat when
field counts indicate damaging insect populations are developing or present.

Chemigation: Whirlwind may be applied through sprinkler irrigation systems at
recommended broadcast application rates to control listed foliar pests. See
Chemigation (Sprinkler Irrigation) section for application instructions.

Proper application methods are necessary to ensure thorough spray coverage and
correct rate, and minimize off-target drift. Follow Application Guidelines for ground
and aerial application and Spray Drift Management recommendations in General
Information section of the label.

Pest-Specific Use Directions:

1. Bollworms and budworms: For best results, it is suggested that fields be scouted
twice per week and applications made when worms are 1/4-inch or less in length.

Specific Use Restrictions:

- Do not apply more than 6 pints of Whirlwind (3 lb ai chlorpyrifos) per acre per
season.
- Do not make more than 3 applications of Whirlwind or other products containing chlorpyrifos per crop season.

- Do not make a second application of Whirlwind or other product containing chlorpyrifos within 10 days of the first application.

- Do not allow meat or dairy animals to graze in treated areas.

- Do not feed gin trash or treated forage to meat or dairy animals.

- Maximum single application rate is 1 lb ai chlorpyrifos per acre.

Method

Broadcast/Foliar Air

Broadcast/Foliar Ground

Pre-Harvest Interval

14 days

Rates

field_rates 0

Restricted Entry Interval

24 hours

Exception: If the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

Timings

When field counts indicate damaging insect populations are developing or present