CORN - POSTEMERGENCE - APHIDS, ETC.

General Information

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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

Postemergence Treatment

Apply as a postemergence broadcast spray using sufficient spray volume to ensure thorough coverage of treated plants, but no less than 15 gpa for ground spray equipment or 2 to 5 gpa for aircraft equipment. Control may be reduced at low spray volumes under high temperature and wind conditions. Note: Do not apply aerially in Mississippi.

Chemigation: Whirlwind may be broadcast applied postemergence through sprinkler irrigation systems at recommended application rates to control listed foliar pests. For best results, tank-mix Whirlwind with 2 pints of non-emulsifiable oil. See Chemigation (Sprinkler Irrigation) section for application instructions.

Pest Specific Use Directions:

1. For cutworms, it is preferable to apply Whirlwind when soil is moist and worms are active on or near the soil surface. If ground is dry, cloddy, or crusted at time of treatment, worms may be protected from the spray and effectiveness will be reduced. Shallow incorporation using a rotary hoe or other suitable equipment immediately before or soon after treatment may improve control. A second application may be required if damage or density levels exceed economic thresholds established for your area.

2. For best billbug, chinch bug, or flea beetle control, ground apply in a minimum
spray volume of 20 to 40 gpa at 40 psi. If corn is less than 6 inches tall, apply in a 9-
to 12-inch wide band over the row. For corn greater than 6 inches tall, apply using
drop nozzles directed to the base of the plant. Do not reduce the application rate for
banded or directed applications. Concentrate the full labeled dosage rate in the
treated zone. When chinch bugs continue to immigrate to corn over a prolonged
period or under extreme pest pressure, a second application may be needed.

3. The recommended dosage will control silk clipping by corn rootworm adults.

4. For webworm control, shallow incorporation using a rotary hoe or other suitable
equipment immediately before or soon after treatment is necessary.

5. For European corn borer control, use 1 1/2 to 2 pints per acre when application is
made with power operated ground or aerial equipment or 1 to 2 pints per acre when
application is made through a sprinkler irrigation system. University research
indicates that achieving greater than 50% control of first-generation European borer
with a single liquid insecticide treatment is highly dependent on timing, insecticide
placement, and weather conditions.

Specific Use Restrictions:

- Preharvest Interval: Do not apply within 35 days before harvest of grain. Do not
  feed treated corn fodder to meat or dairy animals within 35 days after last
treatment.

- 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 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 nor harvest treated
corn silage as feed for meat or dairy animals within 14 days after last treatment.

Method

Broadcast/Foliar Air
Broadcast/Foliar Ground
Pre-Harvest Interval

35 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

Postemergence (Crop)