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. Use a
higher rate in the rate range for increased pest pressure. Use a minimum spray
volume of 2 gallons per acre (gpa) for aerial application (fixed-wing or helicopter) or
10 gpa for ground equipment. Use a spray volume of 5 gpa or more by air or up to
20 gpa by ground when foliage is dense and/or pest population is high and/or under
high temperature and wind conditions. Some reduction in insect control may occur
under unusually cool conditions.

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

Pest-Specific Use Directions:

1. In California: For Egyptian alfalfa weevil control, apply the specified dosage in a
minimum of 5 gallons of water per acre when larvae are actively feeding.

Specific Use Precautions:

- Whirlwind should not be tank-mixed with other pesticides, surfactants, or fertilizer
formulations unless prior use has shown the combination to be non-injurious to
alfalfa under current conditions of use. Some phytotoxic symptoms may be
observed on young, tender, rapidly-growing alfalfa treated with Whirlwind. Alfalfa
will outgrow these symptoms and no yield loss should be expected.

- This product is highly toxic to bees exposed to direct treatment on alfalfa. Do not
apply if nearby bees are clustered outside of hives and bees are actively foraging in
the treated area. Protective information may be obtained from your Agricultural
Extension Service.

- To avoid contamination of irrigation tail waters, do not flood irrigate within 24 hours following an application of Whirlwind.

Specific Use Restrictions:

Preharvest Interval: Do not cut or graze treated alfalfa within 7 days after application of 1/2 pint per acre of Whirlwind, within 14 days after application of 1 pint per acre, or within 21 days after application of rates above 1 pint per acre.

- Do not make more than 4 applications per season of Whirlwind or other product containing chlorpyrifos or apply any product containing chlorpyrifos more than once per alfalfa cutting.

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

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

Method

Broadcast/Foliar Air
Broadcast/Foliar Ground
Foliar spray

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

Egyptian alfalfa weevil: when larvae are actively feeding