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

Soil Treatment (At Planting or Preplant Incorporated)

To reduce feeding damage from early season insects such as cutworms, apply at planting or as a preplant treatment and incorporate to a depth of 1 to 2 inches. Do not apply as an in-furrow treatment. Apply 1 pint of Whirlwind per planted acre to a 10-inch wide band centered over the row for furrows 30 inches apart. (For rows 30 inches apart, this is equivalent to 9.2 fl oz of Whirlwind per 10,000 feet of row). For other row widths, adjust the spray volume per planted acre in proportion to the length of row actually treated.

Postemergence Treatment

Apply specified rate as a broadcast or banded foliar spray. Treat when field counts indicate that damaging insect populations are developing or present.

Broadcast Application: Apply the specified dosage in water using 2 to 5 gpa of finished spray when using aerial spray equipment or 10 to 30 gpa when using ground spray equipment.

Banded Foliar Spray: Apply the specified rate within the band using a minimum of 7 gallons of spray volume in a 5- to 7-inch wide band centered over the row. Do not reduce the rate for band applications. Concentrate the full labeled dosage rate (see band rates in table below) in the treated zone. For best results, band-applied treatments should be lightly incorporated, either mechanically or with irrigation.

Pests Specific Use Directions:

1. Sugarbeet root maggot larvae: Use as primary treatment to control root maggot larvae. Base application timing on local field trap monitoring. Apply anytime from 7
days before until 3 days after peak adult emergence.

2. Sugarbeet root maggot larvae: Use as supplemental postemergence treatment following an at plant insecticide application for control of root maggot larvae. Base application timing on local field trap monitoring. Apply anytime from 7 days before until 3 days after peak adult emergence.

3. To prevent potential development of insecticide resistance in sugarbeet root maggot, producers are encouraged to take the following steps: (1) avoid making more than 2 applications of Whirlwind per season when adults are active; (2) if an organophosphate insecticide was applied at planting, make no more than 1 postemergence application of Whirlwind when adults are active.

Specific Use Restrictions:

- Preharvest Interval: Do not apply within 30 days of harvest of beet roots and tops.

- 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 or harvest treated beet tops as feed for meat or dairy animals within 30 days of last treatment.

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

Method

Band

Pre-Harvest Interval

30 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)

when field counts indicate that damaging insect populations are developing or present