MINT - (MINT ROOT BORERS, GARDEN SYMPHYLANS)

General Information

USE PRECAUTIONS

At low spray volumes under high temperature and wind conditions, insect control may be reduced. 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 this product.

INSECTICIDE RESISTANCE MANAGEMENT (IRM)

This product contains a Group 1B insecticide. Insect/mite biotypes with acquired resistance to Group 1B may eventually dominate the insect/mite population if Group 1B 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 this product or other Group 1B insecticides.

To delay development of insecticide resistance, the following are recommended:

- Avoid consecutive use of insecticides with the same mode of action (same insecticide group) on the same insect species.

- Use tank-mixtures of premix products containing insecticides with different modes of action (different insecticide groups) provided the products are registered for intended use.

- Base insecticide use on comprehensive Integrated Pest Management (IPM) programs.

- Monitor treated insect populations in the field for loss of effectiveness.

- Contact your local extension specialist, certified crop advisor and or manufacturer for insecticide resistance management and/or IPM recommendations for the specific site and resistant pest problems.
Aerial Application

1. The boom width must not exceed 75% of the wingspan or 90% of the rotor blade.

2. Nozzles must always point backward, parallel with the air stream and must never be pointed downward more than 45 degrees.

3. Nozzles must produce a medium or coarser droplet size (255-340 microns volume median diameter) per ASABE Standard 572 under application conditions. Airspeed, pressure and nozzle angle can all effect droplet size. See manufacturer’s catalog or USDA/NAAA Applicator’s Guide for spray size quality ratings.

4. Applications must not be made at a height greater than 10 feet above the top of the target plants unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind.

5. Use upwind swath displacement and apply only when wind speed is 3 to 10 mph as measured by an anemometer. Do not apply product when wind speed exceeds 10 mph.

6. If application includes a no-spray zone, do not release spray at a height greater than 10 feet above the ground or crop canopy.

Where states have more stringent regulations, they must be observed. The applicator should be familiar with and take into account the information covered in the “Aerial Drift Reduction Advisory”.

Ground Boom Application

The following mandatory spray drift best management practices are required to reduce the likelihood of off-target drift movement from ground applications.

1. Choose only nozzles and pressures that produce a medium or coarse droplet size (255-400 microns volume median diameter), per ASABE Standard 572. See manufacturer’s catalog or USDA/NAAA Applicator’s Guide for spray size quality ratings.

2. Apply with nozzle height no more than 4 feet above the ground or crop canopy.
3. Do not apply product when wind speed exceeds 10 mph as measured by an anemometer.

APPLICATION METHODS

By Foliar Broadcast

Apply with conventional power-operated spray equipment using nozzles and spray pressures suited for insecticides. Apply this product 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 MANAGEMENT” section for recommendations on droplet size.

By Ground

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.

By Soil Broadcast

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 to 400 microns). Use a spray volume of 10 gallons or more per acre unless otherwise stated. For band application, use proportionally less spray volume.

By Air

Use a minimum spray volume of 2 gallons per acre. Mark swaths by flagging, permanent markers or use of GPS equipment.

Limitations, Restrictions, and Exceptions

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To control Mint root borers as well as Garden symphylans apply at the rate of 4 pints per acre. Mix the specified dosage in water to give no less than 10 gallons of spray per acre and apply using ground spray equipment.

For Garden symphylans, apply pre-plant to the soil surface. On the same day of treatment, incorporate the insecticide into the top 2 to 4 inches of soil using a disc, field cultivator or equivalent equipment. For Mint root borer control, apply post-harvest when field counts indicate damaging insect populations are developing or present. Follow with approximately 1-acre inch of sprinkler irrigation immediately after application to incorporate the insecticide into the soil.

This product may also be applied through sprinkler irrigation systems as a post-emergence broadcast application to control the above listed pests. For best results, use the specified rate of this product per acre. Maintain vigorous tank agitation to assure uniformity of the application throughout the injection period. See “SPRINKLER IRRIGATION” for further information.

RESTRICTIONS: Do not apply within 90 days before harvest. Make only 1 application of this product or other products containing chlorpyrifos during the growing season. Do not make more than 1 pre-plant incorporated application in the Spring. Do not use in conjunction with a broadcast foliar application of this product for Cutworm control. Make only 1 post-harvest application per season of this product or other products containing chlorpyrifos. Maximum single application rate is 4 pints of this product (2 lbs. a.i.) per acre. Not for use in Mississippi.

Method
Broadcast/Foliar Ground
Pre-Harvest Interval

90 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

For Garden symphylans: preplant.
For Mint root borer: when field counts indicate damaging Insect populations are developing or present.