

GROUP

3

INSECTICIDE

MAKO™ INSECTICIDE

AGRICULTURAL

FOR EMERGENCY USE ONLY

Emergency Registration for the suppression of Spotted Wing Drosophila on the Berry Crop Group Subgroups 13-07A, F & G (excluding lowbush blueberries), Grapes and Stone Fruit Crop Group. For sale and use in British Columbia, Alberta, Saskatchewan, Manitoba, Ontario, Quebec, Nova Scotia, New Brunswick, Prince Edward Island, Newfoundland and Labrador from June 1, 2016 until November 30, 2016.

Emulsifiable concentrate containing Cypermethrin

GUARANTEE: Cypermethrin 407 grams per litre

REGISTRATION NO. 30316

PEST CONTROL PRODUCTS ACT



DANGER

POISON

CORROSIVE TO EYES

SKIN IRRITANT

POTENTIAL SKIN SENSITIZER

READ THE LABEL AND PAMPHLET BEFORE USING

KEEP OUT OF REACH OF CHILDREN

***IN CASE OF EMERGENCY INVOLVING A POISONING OR MAJOR SPILL, CALL
1-866-336-2983***

NET CONTENTS: 1 Litre

Engage Agro Corporation
1030 Gordon Street
Guelph, Ontario
N1G 3R4
1-866-613-3336

MAKO™ is a trademark of Engage Agro Corporation.

PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN. Fatal if swallowed. Harmful if inhaled. CORROSIVE to the eyes. Causes skin irritation. Potential skin sensitizer. DO NOT get in eyes or on skin. Avoid breathing spray mist. For application with airblast equipment, wear long-sleeved shirt, long pants, chemical resistant hat, chemical resistant gloves, socks, chemical resistant footwear and goggles during mixing/loading, application, clean up and repair. For application with other ground application equipment, wear long sleeved shirt, long pants, chemical resistant gloves, socks and chemical resistant footwear during mixing, loading, application, clean up and repair. Wear goggles or face shield during mixing/loading. Wash thoroughly after using and before eating or smoking.

Keep in original container during storage. Do not contaminate or store near feed or foodstuffs. Keep product away from fire, open flame, lighted electric bulbs and other sources of heat.

Apply only when the potential for drift to areas of human habitation or areas of human activity such as houses, cottages, schools and recreational areas is minimal. Take into consideration wind speed, wind direction, temperature, application equipment and sprayer settings.

This product contains a petroleum distillate which is moderately to highly toxic to aquatic organisms. Avoid contamination of aquatic systems during application. Do not contaminate these systems through direct application, disposal of waste or cleaning equipment.

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada's web site at www.croplife.ca.

CAUTION: Unless otherwise stated, do **not** graze the treated crops or cut for hay; there are not sufficient data to support such use.

FIRST AID

If swallowed: Call a poison control centre or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give **any** liquid to the person. Do not give anything by mouth to an unconscious person.

If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15–20 minutes. Call a poison control centre or doctor for treatment advice.

If in eyes: Hold eye open and rinse slowly and gently with water for 15–20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

TOXICOLOGICAL INFORMATION

The treatment of systemic intoxication should be primarily symptomatic and supportive. In cases of ingestion, carry out gastric lavage with care to prevent aspiration.

Contains petroleum distillate. Vomiting may cause aspiration pneumonia.

ENVIRONMENTAL HAZARDS

TOXIC to aquatic organisms. Observe buffer zones specified under DIRECTIONS FOR USE. TOXIC to bees. Bees may be exposed through direct spray, spray drift, and residues on/in leaves, pollen and nectar in flowering crops and weeds. Minimize spray drift to reduce harmful effects on bees in habitats close to the application site.

DO NOT apply when bees are actively foraging in the treatment area. This product can be applied in the evening when bees are not foraging. To further minimize exposure to pollinators, refer to the complete guidance “Protecting Pollinators during Pesticide Spraying – Best Management Practices” on the Health Canada’s website (www.healthcanada.bc.ca/pollinators.)” Toxic to certain beneficial insects. Minimize spray drift to reduce harmful effects on beneficial insects in habitats next to the application site such as hedgerows and woodland.

To reduce runoff from treated areas into aquatic habitats avoid application to areas with a moderate to steep slope, compacted soil, or clay.

Avoid application of this product when heavy rain is forecast.

Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip between the treated area and the edge of the water body.

DISPOSAL

Do not reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial requirements. For information on disposal of unused, unwanted product contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

NOTICE TO USER

This pest control product is to be used only in accordance with the directions on the label. It is

an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.

INTRODUCTION

MAKO Insecticide is a highly active synthetic pyrethroid insecticide with low mammalian toxicity. It works by contact and stomach action.

DIRECTIONS FOR USE

CROP	INSECT	DOSAGE	USE INSTRUCTIONS
Berry and Small Fruit Crop SubGroup 13-07F: gooseberry, Amur river grape, grape, hardy kiwifruit, maypop, schisandra berry, cultivars, varieties and/or hybrids of these	Suppression of Spotted Wing Drosophila	150 mL/ha	GROUND APPLICATION ONLY DO NOT APPLY BY AIR
Stone Fruit Crop Group 12-09: apricot, Japanese apricot, black cherry, Nanking cherry, sweet cherry, tart cherry, chokecherry, nectarine, peach, plum, American plum, beach plum, Canada plum, cherry plum, damson plum, Klamath plum, prune plum, plumcot, and sloe	Suppression of Spotted Wing Drosophila	150 mL/ha A small area should be treated before large areas are sprayed to evaluate crop tolerance.	Timing of applications should be based on the presence of adult pest (flies) as determined by local monitoring.
Berry and Small Fruit Crop SubGroups 13-07A: blackberry*, black and red raspberry, wild raspberry, cultivars, varieties and/or hybrids of these			For grapes, a re-entry interval (REI) of 14 days is required for girdling and a 6 day REI is required for hand harvesting, training, tying and leaf pulling.
Berry and Small Fruit Crop SubGroups 13-07G: bearberry, bilberry, cloudberry, cranberry, lingonberry, muntries, partridgeberry, strawberry, cultivars, varieties and/or hybrids of these			For all other crops and/or activities, do not enter or allow worker entry into treated areas during the REI of 12 hours.
<p>Make no more than 1 application for spotted wing drosophila per crop per year.</p> <p>Use sufficient water for thorough coverage.</p> <p>Allow a preharvest interval of 2 days for all crops except hand harvested grapes. Allow a preharvest interval of 6 days on hand harvested grapes.</p> <p>This use should only be used in conjunction with an active integrated pest management program supported by the Provincial Specialists.</p> <p>Leave a 15 meter buffer between the sprayed area and any body of water.</p>			

*: (including Andean blackberry, arctic blackberry, bingleberry, black satin berry, boysenberry, brombeere, California blackberry, Chesterberry, Cherokee blackberry, Cheyenne blackberry, common blackberry, coryberry, darrowberry, dewberry, Dirksen thornless berry, evergreen blackberry, Himalayaberry, hullberry, lavacaberry, loganberry, lowberry, Lucretiaberry, mammoth blackberry, marionberry, mora, mures deronce, nectarberry, Northern dewberry, olallieberry, Oregon evergreen berry, phenomenalberry, rangeberry, ravenberry, rossberry, Shawnee blackberry, Southern dewberry, tayberry, youngberry, zarzamora, and cultivars, varieties and/or hybrids of these).

As this product is not registered for the control of pests in aquatic systems, DO NOT use to control aquatic pests.

DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of

equipment or disposal of wastes.

Field sprayer application: DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty. DO NOT apply with spray droplets smaller than the American Society of Agriculture Engineers (ASAE S572.1) medium classification. Boom height must be 60 cm or less above the crop or ground.

Airblast application: DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty. DO NOT direct spray above plants to be treated. Turn off outward pointing nozzles at row ends and outer rows. DO NOT apply when wind speed is greater than 16 km/h at the application site as measured outside of the treatment area on the upwind side.

Buffer Zones

Use of the following spray methods or equipment DO NOT requires a buffer zone: Hand-held or backpack sprayer and spot treatment.

The buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) and estuarine/marine habitats.

BUFFER ZONES

Method of Application	Crop	Buffer Zones (metres) Required for the Protection of Freshwater and Estuarine/Marine Habitats
Field Sprayer	All labeled crops	15
Airblast	All labeled Crops	Early Growth 15
		Late Growth 15

RESISTANCE-MANAGEMENT RECOMMENDATIONS

For resistance management, please note that MAKO Insecticide contains a Group 3 insecticide. Any insect population may contain individuals naturally resistant to MAKO Insecticide and other Group 3 insecticides. The resistant individuals may dominate the insect population if this group of insecticides is used repeatedly in the same fields. Other resistance mechanisms that are not linked to site of action but are specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

To delay insecticide resistance:

- Where possible, rotate the use of MAKO Insecticide or other Group 3 insecticides with different groups that control the same pests in a field.
- Use tank mixtures with insecticides from a different group when such use is permitted.
- Insecticide use should be based on an IPM program that includes scouting, record keeping, and considers cultural, biological and other chemical control practices.

- Monitor treated pest populations for resistance development.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for the specific site and pest problems in your area.
- For further information or to report suspected resistance, contact Engage Agro Corporation at 1-866-613-3336.