



CAN BE USED IN: • Habitats Containing Birds, Fish, Pets and Wildlife • Ponds • Pools • Ditches • Irrigation Water • Potable Water Containers • Flood Water Areas • Other Areas Where Mosquitoes Breed and Develop

## STOP MOSQUITOES BEFORE THEY START

### ACTIVE INGREDIENT:

Poly (oxy-1,2-ethanediyl), (1-isocytodecyl- $\beta$ -hydroxyl) (100%)

KEEP OUT OF REACH OF CHILDREN

**CAUTION**  
FIRST AID (TREATMENT)

### IF ON SKIN OR CLOTHING:

Take off contaminated clothing.  
Rinse skin immediately with plenty of water for 15-20 minutes.  
Call a poison control center or doctor for treatment advice.

**IF IN EYES:** Hold eye open and rinse slowly and gently with plenty of water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMAN AND DOMESTIC ANIMALS

**CAUTION:** Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling.

### STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.  
**Pesticide Storage:** Do not allow storage containers to rust. Rust contaminants may clog spray nozzles. Do not allow product to freeze.

**Pesticide Disposal:** Triple rinse, then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill, or by other procedures approved by state or local authorities.

### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. To be used in governmental mosquito control program, by professional pest control operators, by homeowners, or in other mosquito id control operations.

### APPLICATION DIRECTIONS

This product may be applied by both ground and aerial applications. To use, calculate the desired rate based on water surface area. The water depth is not a factor in rate determination. Spray the desired rate of HALT® MMF onto the surface of the water. No dilution is required and a fan spray is recommended.

The MMF will spread to cover hard to access areas. For large areas with dense vegetation it is recommended that application is made in several locations to assist in the spreading action. Do not pour or inject a stream spray directly into water. HALT® MMF is not visible on the surface of the water. Excess MMF on the water surface will form a white globule.

### NOTICE

ExcelAg, Corp., makes no warranty, express or implied of merchantability, fitness or otherwise concerning the use of this product other than as indicated on the label. User assumes all risks, storage or handling not in strict accordance with the label.

This product is for the control of immature mosquitoes and midges in areas where they breed and develop. This product may be used in habitats including potable water and irrigation waters, permanent and semi-permanent waters, irrigated croplands and pastures, and waters with outlets to natural water bodies. The following habitats provide examples of where the product can be applied but is not intended to be all inclusive.

**Polluted Waters:** Sewage lagoons, percolation ponds, animal waste effluent lagoons, septic ditches, waste treatment facility areas, etc.

**Rate of Kill:** The rate of kill when using MMF is dependent on the species, the life stage, the habitat and the temperature. Pupicidal action will typically result in 24 hours. Larvicidal action will usually result in 24-96 hours. If the film is present, control will be achieved.

Net Contents: 1 Gallon  
Manufacture Date: April 30, 2009  
Expiration Date: April 30, 2012

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**Persistence:** The HALT® MMF surface film typically persists on the water's surface for 5 to 22 days. Polluted waters will cause more rapid degradation of the film. Higher application rates will prolong film life and extend the interval between retreatment.

**Species:** Mosquitoes and midges that require little or no surface contact for breathing will be affected by the product during the pupae and emerging adult life stages.

**Wind:** The high end of the dosage rate is recommended when spraying habitats where multi-directional winds of 10mph (16km/hr) or greater are expected to persist. While the film will be pushed by the winds, it will spread quickly once the winds have subsided. If persistent unidirectional winds of 10 mph (16km/hr) or greater are expected, the displacement of the surface film may result in poor control.

**Fresh and Brackish Water:** Fresh water and salt marshes, ponds, lakes, storm water, drainage systems and retention & detention basins, roadside ditches, grassy swales, flooded fields and pastures, potable water containers, reservoirs, irrigated croplands, temporary and semi-permanent woodland ponds, tidal water, and other areas where water accumulates.

**Residential Areas:** Ponds, storm water basins, tree holes, rain barrels, landscape and ornamental ponds, trees, storm drains, stationary flower pots, oil holes, gutters, traps, potable water containers and residential areas where water accumulates and provides ideal breeding habitats for mosquitoes or midges.

**Spray Tanks:** Thoroughly clean and dry the spray system of contaminants such as petroleum oils, water, detergents and conventional toxicants prior to adding HALT® MMF. Detergents will destroy the film-forming of the HALT® MMF; other contaminants (water and oil) can result in the formation of an unsprayable paste.

**Dilution:** HALT® MMF is typically applied to the water's surface without dilution. However, if it is desired to spray higher volumes of liquid, HALT® MMF may be diluted using a high shear injection system that dilutes the MMF of the nozzle to a maximum of 10% in water. Do not add HALT® MMF to water in non-agitated spray systems. Conventional bypass recirculation will not provide adequate agitation to effectively mix HALT® MMF in water.

**Expanding Waters:** Significant expansion of the habitat's surface due to rain or tidal fluxes can be compensated for by using a dosage that is based on the largest expected surface area. This will ensure complete coverage, and eliminate the need for re-treatment of the flooded area.

### Application Rates

### Suggested Rate Range

	MOSQUITO HABITAT	MIDGE HABITAT
<b>Fresh and Brackish Water**</b>	0.2–1.0 gallons/acre*	0.5–1.0 gallons/acre*
	2–10 liters/hectare*	5–10 liters/hectare*
<b>Polluted Waters**</b>	0.35–1.0 gallons/acre**	0.5–1.0 gallons/acre**
	3.5–10 liters/hectare**	5–10 liters/hectare**

\* The lower rate (0.2 gallons/acre) is recommended when only pupae control is desired and in sites with no emergent vegetation and low organic content.

\*\* Use higher rates when emergent or surface vegetation is present, due to the wicking action of the product. The more vegetation or the drier the vegetation, the higher the required rate.

\*\* Use higher rates in polluted water habitats for effective control. \*\*Replication is recommended every two weeks during the midge season.

(Suggested application rates for the trigger applicator spray bottle)

### Surface Area of Standing Water Suggested Quantity of HALT® MMF

1 to 75 square feet	One full trigger application of the spray bottle containing HALT® MMF*
75-100 square feet	Two full trigger applications of the spray bottle containing HALT® MMF**
Every additional 100 square feet	Two to three full trigger applications of the spray bottle containing HALT® MMF**
1,000 square feet	20-25 full trigger applications (1-1.5 oz.)



**SLIGHTLY TOXIC**