

# AGNIQUE<sup>®</sup> MMF

MOSQUITO  
LARVICIDE & PUPICIDE

## MONOMOLECULAR SURFACE FILM FOR CONTROL OF IMMATURE MOSQUITOES AND MIDGES

### ACTIVE INGREDIENT

Poly(oxy-1,2-ethanediyl), $\alpha$ -isooctadecyl- $\omega$ -hydroxyl (100%)

### CAUTION

**KEEP OUT OF THE REACH OF CHILDREN**

### FIRST AID TREATMENT

**IF ON SKIN:** Wash with plenty of soap and water. Get medical attention if irritation develops.

**IF IN EYES:** Flush with plenty of water. Get medical attention if irritation develops.

### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

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

### 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 programs, by professional pest control operators, or in other mosquito or midge control operations.

This product is for the control of immature mosquitoes and midges in ponds, lakes, swamps, ditches, floodwater areas and many other areas where they breed and develop. This product may be used in potable and irrigation waters, permanent and semi-permanent waters, and in croplands and pastures.

### STORAGE AND DISPOSAL

DO NOT CONTAMINATE WATER, FOOD, OR FEED BY STORAGE OR DISPOSAL.

**PESTICIDE STORAGE:** Do not allow storage containers to rust. Rust contamination may clog spray nozzles. Do not allow product to freeze.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**CONTAINER 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.

### APPLICATION DIRECTIONS

This product may be applied by both ground and aerial applications. To use, spray the desired rate of neat MMF onto the surface of the water. No dilution is required. The MMF will spread to cover hard to access areas. A fan spray is recommended. Do not pour or inject a stream spray directly into water.

AGNIQUE<sup>®</sup> MMF is not visible on the surface of the water. Excess MMF on the water surface will form a globule.

cognis

agrosolutions

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24 HOUR EMERGENCY PHONE  
CHEMTREC 1-800-424-9300

For information on this pesticide product (including health concerns, medical emergencies, or pesticide incidents), call the National Pesticide Telecommunications Network at 1-800-858-7378.

### APPLICATION NOTES

**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 - 72 hours. If the film is present, as indicated by the Indicator Oil, control will be achieved.

**Indicator Oil:** AGNIQUE<sup>®</sup> MMF is not visible on the surface of the water. To check the habitat for the presence and persistence of the product, add a drop of AGNIQUE<sup>®</sup> MMF Indicator Oil to several locations in the habitat. If the Indicator Oil forms a tight bead on the surface of the water, then the MMF is present for control.

**Persistence:** The AGNIQUE<sup>®</sup> MMF surface film typically persists on the water's surface for 5 - 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 contacts for breathing will be affected by the product during the pupae and emerging adult life stages.

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

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

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

**Expanding Waters:** Significant expansion of the habitat's surface area 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.

### NOTICE

Cognis Corporation 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.

### MOSQUITO HABITAT

#### Suggested Rate Range\*

#### Fresh and brackish waters

Examples include salt marshes, ponds, storm water and retention & detention basins, roadside ditches, grassy swales, fields, pastures, potable water containers, reservoirs, irrigated croplands, woodland pools, tidal water, etc...

0.2 - 0.5 gallons/acre  
2 - 5 liters/hectare

#### Polluted waters

Examples include sewage lagoons, animal waste effluent lagoons, septic ditches, etc...

0.35 - 1.0 gallons/acre  
3.5 - 10 liters/hectare

\* 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 rate.

\* The lower rates may be used when only pupae are present.

### MIDGE HABITAT

#### Suggested Rate Range^

#### Fresh water

Examples include ponds and lakes

0.5 gallons/acre  
5 liters/hectare

#### Polluted waters

Examples include sewage lagoons and percolation ponds

0.5 - 1.0 gallons/acre  
5 - 10 liters/hectare

^ Reapplication is recommended every two weeks during the midge season.