Abate®

Treatment cycle

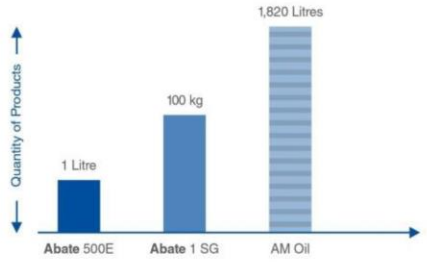
The recommended period between treatments is 12 to 15 days.
This can however be extended beyond 15 days if entomological inspections recommend it.

Abate can be applied using any of the following:

- Handheld pressure spray
- Knapsack sprayer
- All-terrain vehicles equipped with hydraulic spraying equipment
- Aircraft application

Cost effectiveness of using **Abate**

Treatment of an area of 10 hectare



Benefits:

- **Abate** 500E & **Abate** 1 SG are convenient formulation to use
- Cheaper than using AM oil
- Reduced numbers of retreatments

This brochure is intended as advice.
The recommendation for use issued for each product should be carefully observed.
Always read the label and product information before use.
Abate 1 SG is for general use.
Abate 500E is for use by professional pest controllers.

Further information from:

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Jan 2014

Abate®

Recommended by World Health Organization

Time-Tested Larval Control

Effectively controls mosquito larvae as the first-line defense against mosquito-borne diseases.

Abate is:

- effective
- fast-acting
- safe to use

BASF
The Chemical Company

Abate® larval control products have provided superior performance in challenging environments for over 40 years. The effective control of diseases transmitted by insects depends on the fight against the vectors that spread them.

Abate (temephos) is a powerful larvicide that effectively controls a number of disease carrying mosquitoes at the larval stage.

Abate: Advantages at a glance

- Highly effective for the control of mosquito larvae at low dose rate.
- First line of defence against mosquito-borne diseases.
- Excellent residual performance.
- Low toxicity when used according to label instructions.

Why use **Abate**?

The larvicide **Abate** is the original trace name for the active ingredient temephos. BASF's Research and Development department launched this product with confidence in its efficacy and effectiveness. The recommendation of temephos by the WHO is based on studies conducted with **Abate.**

How does **Abate** works?

Temephos inhibits an enzyme vital to the normal function of the nervous system.

By treating stagnant water with **Abate**, the mosquito larvae are killed before adults are capable of reproduction. This prevents new generations of disease-carrying insects from developing, minimizing the spread of the disease.

Safety of the community is the first priority.

In the fight against diseases transmitted by mosquitoes, it is essential to ensure that the methods used do not present unnecessary risks to the population you are trying to protect.

It is in this area that **Abate** offers complete peace of mind. **Abate** is extremely effective at low rates of use. When used according to instructions, **Abate** poses little risk to humans, fish, birds and other non-targeted organisms.

Abate works fast and has excellent residual effect.

Abate works quickly to control mosquito and other insect populations as it kills insect larvae before they become adults. The excellent residual performance of **Abate** prevents the return of insects for weeks. In addition, because **Abate** belongs to a different chemical class than pyrethroid-based insecticides aimed at mature insects, it considerably reduces the likelihood of resistance.

Abate® 1 SG

Carrier & Appearance:
Light brown/grey free-flowing sand granules featuring a red flint sand core to provide good penetration through heavy canopy

Application Rate:
10 kg / hectare

Designed to Treat:
Woodland pools, standing water, marshes, swamps, intertidal pools or areas with heavy canopy

Application:
Helicopters and fixed-wing aircraft, backpacker power blowers, backpack, sprayers, right-of-way sprayers

Abate® 500E

Carrier & Appearance:
Liquid

Application Rate:
100 ml / hectare

Designed to Treat:
Standing water, ponds, lakes, woodland pools, catchbasins, marshes, swamps, polluted water or areas with recurring mosquito populations

Application:
Liquid ground, aerial application equipment and power sprayers

The specification for temephos issued by the WHO are based on studies conducted with **Abate**, from BASF.

Characteristic of **Abate**

Mode of Action

Abate acts by ingestion or contact inhibiting an enzyme that is important in the normal functioning of the insects' nervous system resulting in death.

Identification

Active material: temephos.

Formulation

Abate 500E is an emulsifiable concentrate containing 47.7% w/w active ingredient per litre.

Abate 1 SG is 1.1% w/w active ingredient per kg.

General Directions

The dosage rate varies depending on depth of water, organic matter content and amounts of vegetation.

Application

USE ONLY AS DIRECTED.
See table below.

Abate® 1 SG application

LOCATION	PEST	RATE / 10 m²	METHOD OF APPLICATION	USE RATE PER HECTARE
Portable water containers, water tanks, ceramic water jars and flower pots and other small breeding areas	Mosquito Larvae Aedes spp. Culex spp. Anopheles.spp	2 g/18 litres water (equivalent to 1 kerosene can)	Broadcast **Abate® 1 SG** evenly and repeat application at 2-3 months intervals.	10kg

Abate® 500E application

LOCATION	SPECIES OF MOSQUITOES	DOSAGE			DILUTED SPRAY PER HECTARE
		10 Liters Water	Per Hectare	Dilution Rate	
Clean Stagnant Water	Aedes *sp.* Culex *sp.* Anopheles *sp.* Midges	10 ml	100 ml/Ha	1 : 1000	100 liters
Moderately Stagnant Water Polluted Water	Aedes *sp.* Culex *sp.* Anopheles *sp.* Midges	20 ml	200 ml/Ha	1 : 500	100 liters
Highly Polluted Stagnant Water with Algae and Organic Waste	Aedes *sp.* Culex *sp.* Anopheles *sp.* Midges	50 ml	500 ml/Ha	1 : 200	100 liters