A powerful larvicide that effectively controls mosquito larvae as the first-line of defense against malaria

Abate®

- effective
- fast-acting
- safe to use

BASF
The Chemical Company
ABATE®

Advantages at a glance
- Highly effective for the control of mosquito larvae at low dose rates.
- First line of defense against malaria.
- Excellent residual performance.
- Low toxicity when used according to label instructions.

The effective control of malaria and other 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 insects including mosquitoes at the larval stage.

Why use ABATE®?
The larvicide ABATE® is the original trade name for the active ingredient temephos. BASF’s Research and Development department launched this product with confidence in its efficacy and effectiveness.

The approval of temephos by the WHO is based on studies conducted with ABATE®.

How does ABATE® work?
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 they become adults capable of reproduction. This prevents new generations of disease-carrying insects from developing, minimizing the spread of the disease.

The First Priority is the Safety of the Community.
In the fight against diseases transmitted by insects, 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 a long residual action.
ABATE® works quickly to control mosquito and other insect populations, as it kills the larvae of insects 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.
The specifications for temephos issued by the WHO are based on studies conducted with ABATE®, from BASF.

### Characteristics of ABATE®

#### Mode of Action
ABATE® is an organophosphate which 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 (organophosphate)

#### Formulation
ABATE® 500E is an emulsifiable concentrate containing 500g active ingredient per litre

### Application

**USE ONLY AS DIRECTED.**
Refer to product label.

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

### ABATE® application

<table>
<thead>
<tr>
<th>Type of water</th>
<th>Rate</th>
<th>Application directions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clean (Ponds, pools, lakes)</td>
<td>100 to 150 ml/ha or 1 to 1,5 ml/100 m²</td>
<td>For large-scale treatment with a knapsack sprayer, dilute the recommended rate per hectare in 50 litre of water and apply at a rate of 50 litre/ha.</td>
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<tr>
<td>Moderately polluted (marshes, swamps)</td>
<td>200 to 250 ml/ha or 2 to 2,5 ml/100 m²</td>
<td>For aircraft treatment apply the recommended rate in 30 litre/ha.</td>
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<tr>
<td>Highly polluted (cesspools, drains)</td>
<td>400 to 500 ml/ha or 4 to 5 ml/100 m²</td>
<td>For spot spray application, dilute the recommended rate per hectare in 1 litre of water per 100 m².</td>
</tr>
</tbody>
</table>
A powerful larvicide that effectively controls a large number of disease-carrying insects including the malaria vector.

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.

Application Equipment
The application method should be chosen to suit the circumstances of each site, as well as the equipment and resources available.

- ABATE® can be applied using any of the following:
  - Handheld pressure spray
  - Knapsack sprayer
  - All-terrain vehicles equipped with hydraulic spraying equipment
  - Aircraft application

This brochure is intended as advice. The recommendations for use issued for each product should be carefully observed.

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Use biocides safely. Always read the label and product information before use.

For further information please contact:
Tel: +27 11 203 2400
Fax: +27 11 203 2461
E-mail: info-zapestcontrol@basf.com
Web: www.basf.co.za

ABAT® 50EC: Reg. No. 12413 (Act 36/1947) contains temephos (organophosphate 60%)

BASF SA (Pty) Ltd
PO Box 2801
Halfway House
Gauteng
South Africa
1685

BASF
The Chemical Company