



**BASF**

The Chemical Company

# ABATE® 500 E

Reg. no. L 2413 Act no 36 of 1947; N -AR 0836

**An emulsifiable liquid residual stomach and contact insecticide for the control of mosquito larvae.**

Active ingredient: Temephos (Organophosphate) ..... 500 g / ℓ

Reg. nr. L 2413 Wet nr 36 van 1947

**'n Emulgeerbarekonsentraatinskemiddel met residuele maag- en kontakwerking vir die beheer van muskietlarwes.**

Aktiewe bestanddeel: Temefos (Organofosfaat) ..... 500 g / ℓ

**Registered by / Geregistreer deur:**

BASF South Africa (Pty) Ltd. (Co. Reg. No. / Mpy. Reg. Nr. 66/10235/07)

P.O. Box / Posbus 2801, Halfway House / Halfweghuis 1685

**Manufactured and formulated by / Vervaardig en geformuleer deur:**

BASF Agro BV Arnhem (NL), Waedenswil Branch

Moosacherstraße 2, CH-8820 Waedenswil, Switzerland

**Batch Number / Lotnommer:**

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**EMERGENCY NUMBER / NOODNOMMER 082-893-3643**

**UN/VN No: 1993**

**App. code 26 / 01 / 01**

**5 ℓ**

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81043644 ZA 0099



**CAUTION  
VERSIGTIG**





## WARNINGS

- Store in a cool, dry place, away from food and feed.
- Keep out of reach of children, uninformed persons and animals.
- May be harmful if swallowed or absorbed through the skin.
- May cause eye and skin irritation.

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**Although this remedy has been extensively tested under a large variety of conditions, the registration holder does not warrant that it will be efficacious under all conditions because the action and effect thereof may be affected by factors such as abnormal soil, climatic and storage conditions, quality of dilution water, compatibility with other substances not indicated on the label and the occurrence of resistance of the pest against the remedy concerned as well as by the method, time and accuracy of application. The registration holder furthermore does not accept responsibility for damage to crops, vegetation, the environment or harm to man or animal or for lack of performance of the remedy concerned due to failure of the user to follow the label instructions or to the occurrence of conditions which could not have been foreseen in terms of the registration. Consult the supplier in the event of any uncertainty.**

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## PRECAUTIONS

- Prevent contamination of food, drinking water, rivers and feedstuffs.
- Do not use this product to control mosquito larvae in drinking water.
- Do not eat, drink or smoke during application or handling.
- Do not inhale fumes of spray mist.
- Wear protective clothing and gloves whilst handling the product.
- After use, wash hands and face thoroughly.
- Rinse empty container **THREE TIMES** with a volume of water equal to a minimum of 10% of that of the container. Add the rinsing to the contents of the spray tank.
- Destroy empty container by perforation and flattening. Dispose of in a safe way and never use the container for any other purpose.

## FIRST AID

- IF IN EYES:** Flush eyes with a copious amount of water for at least 15 minutes whilst holding eyelids open. Obtain medical attention if irritation persists.
- IF SWALLOWED:** Do not induce vomiting. Get medical attention.
- IF ON SKIN:** Wash skin with plenty of soap and water. Get medical attention if irritation persists. Aspiration may cause chemical pneumonitis.
- IF INHALED:** Remove patient to fresh air.





## DIRECTIONS FOR USE:

USE ONLY AS DIRECTED

**General Directions:** The dosage rate depends on depth of water, organic matter content and amounts of vegetation. Increase the concentration according to the presence of these factors.

### Aerial application:

Aerial application of **ABATE 500 E** may only be done by a registered aerial application operator using a correctly calibrated, registered aircraft according to the instructions of SABS Code 0118 (Aerial Application of Agricultural Pesticides). Ensure that the spray mixture is distributed evenly over the target area and that the loss of spray material during application is restricted to a minimum. It is therefore essential that the following criteria be met:

- **Volume:** A spray mixture volume of 30  $\ell$  per hectare is recommended. As this product has not been evaluated at a reduced volume rate, the registration holder cannot guarantee efficacy, or be held responsible for any adverse effects if this product is applied aerially at a lower volume rate than recommended above.
- **Droplet coverage:** 30 to 40 droplets per  $\text{cm}^2$  must be recovered at the target area.
- **Droplet size:** A droplet spectrum with a VMD of 250 to 280 micron is recommended. Limit the production of fine droplets less than 150 micron (high drift and evaporation potential) to a minimum.
- **Flying height:** Maintain the height of the spray boom at 3 to 4 metres above the target. Do not spray when aircraft dives, is in a climb or when banking
- Use suitable atomising equipment that will produce the desired droplet size and coverage, but which will ensure the minimum loss of product. The spraying system must produce a droplet spectrum with the lowest possible Relative Span.
- Position all the atomisers within the inner 60 to 75 % of the wingspan to prevent droplets from entering the wingtip vortices.
- The difference in temperature between the wet and dry bulb thermometers, of a whirling hygrometer, should not exceed 8°C.
- Stop spraying if the wind speed exceeds 15 km / h.
- Stop spraying under turbulent, unstable and dry conditions during the heat of the day.
- Spraying under temperature inversion conditions (spraying in or above the inversion layer) and / or high humidity conditions (relative humidity 80 % and above) may lead to the following:
  - reduced efficacy due to suspension and evaporation of small droplets in the air (inadequate coverage).
  - damage to other sensitive crops and / or non-target areas through drifting of the suspended spray cloud away from the target field.
- Ensure that the aerial spray operator knows exactly which areas to spray.
- Obtain an assurance from the aerial spray operator that the above requirements will be met and that relevant data will be compiled in a logbook and kept for future reference.





TYPE OF WATER	RATE	APPLICATION DIRECTIONS
CLEAN (Ponds, pools, lakes)	100 to 150 mℓ / ha <b>OR</b> 1 to 1,5 mℓ / 100 m <sup>2</sup> *	For large scale treatment with knapsack sprayer, dilute the recommended rate per hectare in 50 ℓ of water and apply at a rate of 50 ℓ / ha.
MODERATELY POLLUTED (marshes, swamps)	200 to 250 mℓ / ha <b>OR</b> 2 to 2,5 mℓ / 100 m <sup>2</sup> *	For aircraft treatment, apply the recommended rate in 30 ℓ / ha.
HIGHLY POLLUTED (cesspools, drains)	400 to 500 mℓ / ha <b>OR</b> 4 to 5 mℓ / 100 m <sup>2</sup> *	* For spot spray application, dilute the recommended rate in 1 ℓ water per 100 m <sup>2</sup>





## WAARSKUWINGS

- Berg in 'n koel, droë plek weg van voedsel en voer.
- Hou buite bereik van kinders, oningeligte persone en diere.
- Skadelik indien ingesluk of deur die vel geabsorbeer.
- Mag oog- en velirritasie veroorsaak.

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**Alhoewel hierdie middel omvattend en onder 'n groot verskeidenheid toestande getoets is, waarborg die registrasiehouer nie dat dit onder alle toestande doeltreffend sal wees nie, aangesien die werking en effek daarvan beïnvloed kan word deur faktore soos abnormale grond-, klimaats- en bergingstoestande, kwaliteit van verdunningswater, verenigbaarheid met ander stowwe wat nie op die etiket aangedui is nie en die voorkoms van weerstand van 'n plaag teen die betrokke middel sowel as die metode, tyd en akkuraatheid van toediening. Verder aanvaar die registrasiehouer nie verantwoordelikheid vir skade aan gewasse, plantegroei, die omgewing of vir nadelige effek op mens of dier of vir 'n gebrek aan prestasie van die betrokke middel as gevolg van die versuim van die gebruiker om etiketaanwysings na te kom of as gevolg van die ontstaan van toestande wat nie kragtens die registrasie voorsien kon word nie. Raadpleeg die verskaffer in the geval van enige onsekerheid.**

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## VOORSORGMATREËLS

- Voorkom besoedeling van voedsel, voer, drinkwater en riviere.
- Moenie hierdie produk gebruik om muskietlarwes in drinkwater te beheer nie.
- Moenie eet, drink of rook terwyl die produk gemeng of aangewend word nie.
- Moenie dampe of sproeinewel inasem nie.
- Dra geskikte beskermende klere en handskoene wanneer die konsentraat gehanteer word.
- Was hande en gesig deeglik na gebruik.
- Spoel leë houers DRIEKEËR, met 'n volume water gelykstaande aan 'n minimum van 10% van die houer, uit. Gooi die spoelwater by die inhoud van die spuittenk voordat die houer vernietig word.
- Vernietig die leë houer deur gate daarin te maak en dit plat te slaan. Verseker dat die leë houer in 'n veilige pleg weggegooi word en moet dit nooit vir enige ander doel hergebruik nie.

## NOODHULPBEHANDELING

- IN DIE OË:** Spoel die oë deeglik uit met water vir minstens 15 minute. Raadpleeg 'n geneesheer indien irritasie voortduur.
- INDIEN INGESLUK:** Moenie braking veroorsaak nie. Raadpleeg 'n geneesheer. Aspirasie mag chemiese pneumonitis veroorsaak.
- INDIEN OP DIE VEL:** Was aangetaste area deeglik met seep en water. Raadpleeg 'n geneesheer indien irritasie voortduur.
- INDIEN INGEASEM:** Verwyder pasiënt na vars lug.





## GEBRUIKSAANWYSINGS:

## GEBRUIK SLEGS SOOS AANGEDUI

**Algemene Aanwysings:** Die aanbevole dosis hang af van die diepte van die water, organiese materiaalinhoud en hoeveelheid plantegroei. Verhoog die konsentrasie na gelang van die teenwoordigheid van hierdie faktore.

### Lugtoediening:

**ABATE 500 E** kan slegs deur 'n geregistreerde lugbespuitingsoperateur met 'n korrek gekalibreerde, geregistreerde vliegtuig volgens die instruksies van SABS Kode 0118 (Aerial Application of Agricultural Pesticides) uit die lug bespuit word. Verseker dat die spuitmengsel eweredig oor die teikenarea versprei word, en die verlies aan spuitmengsel tydens toediening tot 'n minimum beperk word. Dit is daarom belangrik om aan die volgende vereistes te voldoen:

- **Volume:** 'n Spuitmengsel volume van 30  $\ell$  per ha word aanbeveel. Hierdie produk is nie teen 'n verlaagde volume getoets nie. Die registrasiehouer kan nie effektiwiteit waarborg, of verantwoordelik gehou word vir enige nadelige effekte indien hierdie produk teen 'n laer volume, as hierbo aanbeveel, toegedien word nie.
- **Druppelbedekking:** 30 tot 40 druppels per  $\text{cm}^2$  moet op die teikenarea herwin word.
- **Druppelgrootte:** 'n Druppelspektrum met 'n VMD van 280 tot 300 mikron word aanbeveel. Beperk die produksie van druppels kleiner as 150 mikron (hoë drywing en verdampingspotensiaal) tot 'n minimum.
- **Vlieghoogte:** Handhaaf die hoogte van die spuitbalk bo die teiken op 3 tot 4 meter. Moenie spuit wanneer die vliegtuig duik, uitklim of draai nie.
- Gebruik geskikte atomiseringsapparaat wat die vereiste druppelgrootte en bedekking sal produseer, maar die minste verlies van produk verseker. Die spuitstelsel moet 'n druppel spektrum met die kleinste moontlike Relatiewe Span produseer.
- Plaas al die atomiseerders in die binnste 60 tot 75 % van die vlerkspan om te verhoed dat druppels binne-in die vlerkpuntvorteks beweeg.
- Die verskil in temperatuur tussen die nat- en droëboltermometer van 'n swaaihygrometer, moenie 8  $^{\circ}\text{C}$  oorskry nie.
- Stop bespuiting indien die windspoed 15 km / uur oorskry.
- Stop bespuiting tydens turbulente, onstabiele en droë toestande gedurende die hitte van die dag.
- Bespuiting onder temperatuur inversie toestande (deur bo of binne die inversie laag te spuit) en / of hoë lugvog toestande (relatiewe humiditeit 80% en meer) mag tot volgende probleme aanleiding gee:
  - verlaagde effektiwiteit aangesien die druppels as 'n wolk in die lug bly hang en moontlik verdamp (onvoldoende bedekking op teiken).
  - skade aan nie-teiken gewasse of sensitiewe areas as gevolg van wegdrywing van die spuitwolk na nie-teiken area.
- Verseker dat die lugbespuitingsoperateur presies weet watter areas bespuit moet word.
- Dit is noodsaaklik om 'n versekering van die lugbespuitingsoperateur te verkry dat aan al die bogenoemde vereistes voldoen sal word en dat data van belang in 'n logboek saamgevat is vir toekomstige verwysing.





<b>WATERTIPE</b>	<b>DOSIS</b>	<b>AANWYSINGS VIR GEBRUIK</b>
SKOON (Damme, mere en pannetjies)	100 tot 150 ml / ha <b>OF</b> 1 tot 1,5 ml / 100 m <sup>2</sup> *	Vir grootskaalse behandeling met rugsakspuit; verdun die aanbevole hoeveelheid per hektaar in 50 l water en dien toe teen 50 l per hektaar.
MATIG VUIL (Moerasse, vleie)	200 tot 250 ml / ha <b>OF</b> 2 tot 2,5 ml / 100 m <sup>2</sup> *	Vir lugbespuiting, dien die aanbevole hoeveelheid toe in 30 l water / ha.
BAIE VUIL (Dreine)	400 tot 500 ml / ha <b>OF</b> 4 tot 5 ml / 100 m <sup>2</sup> *	*Vir kolbespuiting, verdun die aanbevole hoeveelheid in 1 l water per 100 m <sup>2</sup> .





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