

Today, no one has to die from malaria.

Mosquito-transmitted disease is one of the

biggest public health challenges facing virtually

every African nation and many other parts

of the world. What makes the tragedy of

malaria worse is that this devastating disease

is preventable. As part of our commitment

to improving quality of life worldwide,

only BASF offers this effective, sustainable

3-way approach for rolling back malaria, as well

as dengue fever and guinea worm disease.

THE PROGRAM

The BASF 3-way approach for controlling vector-borne disease includes:

- 1 Provide access to insecticide treated nets (ITNs)
- 2 Apply residual wall sprays
- 3 Treat standing water with a larvicide

Each of these methods alone can contribute to safer living conditions in communities battling malaria and other vector-borne diseases. Taken together, these steps give families the greatest chance of eliminating disease-causing insects and living healthy lives.

Because some of these steps require greater community cooperation than others, families need to be educated about the benefits they'll receive in return for their efforts. In addition, the materials necessary to carry out each step of the program must be made readily accessible and affordable.

In recognition of these potential hurdles, BASF recommends rolling out this 3-step program by beginning with the efforts that allow individuals to take direct responsibility for their own health and progressing to those efforts that require integrated cooperation from the entire community.

THE METHODS

Step 1: Insecticide Treated Nets

Insecticide treated nets (ITNs) should be the first initiative introduced to populations battling vector-borne diseases. ITNs allow individuals to take direct responsibility for protecting themselves and their families. Dip-It-Yourself™ application and retreatment of mosquito nets give residents control of their own defense against disease-causing insects.

FENDONA® insecticide (alphacypermethrin), from BASF, is highly recommended for use on ITNs. FENDONA ensures that individuals who show the initiative to take control of their own well-being benefit from safe, dependable control. In addition to eliminating insects through ingestion and contact, FENDONA also has a proven repellent action that keeps insects from getting too close in the first place.

FENDONA can be used in the original production of ITNs as well as to repeatedly treat nets using convenient Dip-It-Yourself kits that include a 6-ml FENDONA sachet, gloves, a measuring bag and easy-to-follow instructions in written and pictogram form. For maximum protection, nets should be treated with FENDONA before seasonal rains begin. In areas with two rainy seasons, this is usually April and October. Use of FENDONA sachets to treat ITNs is simple and can be done by virtually anyone.



Step 2: Residual Wall Sprays

The next step in malaria control is to widen the zone of control from the individual to the household. People can't spend their entire day under the protection of an ITN, so it makes sense to add protection to other areas as well.

Users can spray the entire inside of the dwelling, as well as under the eaves on the outside, to create a protected home environment. FENDONA insecticide (alphacypermethrin), from BASF, is a very effective residual wall spray. Unlike many other products, FENDONA works on virtually any surface. Its crystalline particles adhere to bare wood, glass, brick, concrete and masonry.

The user simply follows the label instructions and mixes the appropriate amounts of FENDONA and water, then sprays the walls, ceilings, floors, windows and eaves. FENDONA will continue to control mosquitoes, as well as flies, fleas, cockroaches, bedbugs and other insects, for up to nine months. However, for optimal control, respraying every six months is recommended.



Step 3: Larviciding

Once individuals have taken steps to protect themselves and their homes, the next level of control is at the community level. One of the easiest and most effective ways to control mosquitoes throughout a community is to treat standing water with a larvicide, such as ABATE® larvicide from BASF. Through the use of larvicides, mosquitoes are controlled before they even reach maturity. In this way, they're prevented not only from spreading disease, but also from breeding to create new generations of disease-carrying insects.

ABATE, when properly distributed, poses little or no threat to the safety of humans or other mammals, water species, or the environment in general. Plus, because it's a different type of chemical than those used in Steps 1 and 2, ABATE can help prevent, or at least limit, the chance of resistance compromising a long-term malaria control campaign. This makes ABATE ideal for use in areas where resistance has already been noted.

While effective, this step of the program can be difficult to initiate. Unlike Steps 1 and 2 where individuals take responsibility for protecting their own homes and families, larviciding requires the participation of the community or local area management.



THE PRODUCTS



FENDONA® insecticide, the original brand of alphacypermethrin, provides safe, reliable, long-lasting

mosquito control when applied to walls or when used to treat mosquito nets. Because FENDONA quickly and effectively eliminates mosquitoes and other disease-causing insects, it is one of the most effective tools available for protecting public health in regions where malaria and other vector-borne diseases are present.

FENDONA offers many unique advantages, including:

- Works both on contact and through ingestion
- Flushes out insects and knocks them down within minutes
- Offers excellent residual activity, controlling insects for six to nine months
- Works on virtually any surface, unlike many other products
- Crystalline particles adhere to bare wood, glass, brick, concrete and masonry
- Highly effective at low use-rates
- Safe to apply in kitchens, restaurants, food storage and food processing areas

- Water-based formulation results in no significant odor and no staining
- Low skin-irritation factor for applicators and ITN users

FENDONA is a synthetic pyrethroid that controls a broad spectrum of pests both on contact and through ingestion. FENDONA is available as:

- FENDONA 6 SC or 10 SC in 1 litre, 500-ml and 6-ml Dip-It-Yourself™ sachets
- FENDONA 5 WP in 125 g water-soluble sachets

The Suspension Concentrate (SC) formulation is made up of microscopic particles of the active ingredient effectively floating in the water carrier, thereby making the product less toxic than many other formulations. SC is well suited for the treatment of ITNs.

The Wettable Powder (WP) formulation is a dry version of the SC formulation. BASF has packaged the WP formulation of FENDONA in water-soluble sachets for ease of use with backpack sprayers, making this formulation ideal for use in wall-spraying efforts.

ABATE® larvicide, the original and most-trusted brand of temephos, reliably eliminates mosquitoes and

other insects from standing water before they mature and spread disease.

Among the many advantages of ABATE are:

- Effectively controls larvae of a broad spectrum of nuisance and disease-causing insects
- Very effective at relatively low doses
- Excellent residual performance
- Low toxicity means virtually no risk to humans and other mammals, water species or the environment in general when used according to label directions

- Use of a different chemistry than the pyrethroid sprays that target mature insects greatly reduces the chances of resistance that could compromise your overall insect-control efforts

ABATE is a low-toxicity organophosphate designed for controlling insect larvae.

- ABATE is available either as a 500E or 200E
- Product choice is mostly dependent upon region and target organism
- ABATE 1 SG (sand granule) is also available in some areas

Always read and follow label directions.

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THREE STEPS
TO EFFECTIVE
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