



Aqua  
K-Othrine®

**Protecting** communities against  
dengue and vector-borne diseases



Water-Based 

Insecticide For Space Spray





# Aqua K-Othrine®

## Protecting Communities



Mosquitoes are responsible for the transmission of some of the world's most deadly and debilitating diseases including malaria, dengue, and chikungunya. The key to protecting communities relies on reducing the disease carriers - the mosquitoes. By managing mosquito populations, disease transmission can be reduced, and local communities protected.

## Mosquito Control Programs



To be effective, mosquito control programs need to be implemented across whole communities.

Five important actions can be considered:

- // **Education of the community**
- // **Control of mosquito larvae**
- // **Encouraging the use of insecticide treated bed nets**
- // **Conducting indoor residual spraying**
- // **Conducting space spraying**

For dengue and chikungunya management, community education, control of larvae, and application of space sprays are important measures.

For malaria control, the use of insecticide bed nets, indoor residual spraying, as well as community education and application of larvicides are important.

## Sustainable Mosquito Management

As mosquito management is conducted in close association with the community, it's important that measures taken are compatible with both the needs of those living in the community as well as being sustainable.

Sustainable mosquito management entails:

- // **Effective mosquito control** to reduce disease transmission
- // **Minimizing disruption and disturbance** to ensure community acceptance
- // **Minimizing costs** to maximize community coverage within budget constraints
- // **Maximizing operational efficiency** to maximize community coverage within time and geographical constraints
- // **Using carefully** selected products to minimize environmental impact





# Aqua K-Othrine®

## Aqua K-Othrine®

Aqua K-Othrine® has been developed with the needs of the community and sustainability in mind. Its unique formulation delivers rapid knockdown of adult mosquitoes without the need for dilution in oil.

Developed by Bayer, Aqua K-Othrine® is fully **WHO Prequalification (WHO PQ)** evaluated and recommended for both outdoor and indoor uses. It is now widely used in many countries including Mexico, Brazil, Thailand, Vietnam and others.

## FFAST Technology

What makes Aqua K-Othrine® so unique is the **Film Forming Aqueous Spray Technology (FFAST)**. This technology allows the use of water as a diluent without the drawbacks of evaporation.

The principal behind FFAST is simple yet extremely effective. As each droplet is formed, long chain alcohol molecules rapidly migrate to the surface where they align to form a protective skin. This gives a sealed package of water-based insecticide, thereby retarding evaporation and greatly extending the effective range of the spray.

### Stages in the formation of a stable “Aqua” droplet



Droplet emerges from spray nozzle



Anti-evaporant comes out of solution



Anti-evaporant forms protective “skin” around droplet

The key result is that Aqua K-Othrine® provides longer-lasting spray cloud that is more effective in reducing adult mosquito populations in all climatic conditions. Aqua K-Othrine® is as effective as oil/diesel diluted space spray concentrates but without the oil and the cost.

## Benefits of Diluting With Water

As water can be used as the diluent, Aqua K-Othrine® is easy to use. It also minimizes flammability, smell, staining, paintwork damage, toxicological risk and pollution.

This makes Aqua K-Othrine® a more acceptable solution for communities, for operators, and the environment.

Aqua K-Othrine® also significantly reduces costs as water is cheaper than oil, is more readily accessible which reduces transportation costs, and is easier to work with, thereby reducing operational costs. This means that larger areas can be treated and be protected within budgetary, time, and geographical constraints.

## The Sustainable Decision

Whether you are a pest control operator or a local authority, when making the choice for which space spray product to use, consider all the benefits of Aqua K-Othrine®.

You will find Aqua K-Othrine® makes perfect sense for sustainable mosquito management.



# Aqua K-Othrine®

## Better community protection in a more sustainable manner

With Aqua K-Othrine® there's no oil, no odour, and no staining. It's cleaner for the environment, yet it's still just as powerful in protecting communities from vector-borne disease.

### Specify Aqua K-Othrine®

- // Reduced disease transmission
- // No oil-based diluents
- // No odour, no staining
- // With or without visible fog
- // Lower operational cost
- // WHO PQ evaluated and approved
- // Suitable for use in a wide variety of situations
- // Suitable for use through ULV and thermal fogging equipment
- // Produced by Bayer - a leading provider of public health solutions



**Active Ingredient:**  
Deltamethrin 2.00% w/w

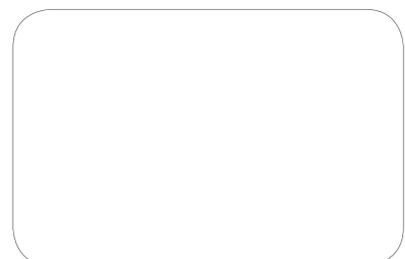
**Pack size:**  
1 Litre

Bayer is committed to sustainable development

Aqua K-Othrine® is designed to eliminate the need for oil-based diluents. This results in better protection of the community, the environment and makes it the genuine solution for sustainable vector management.

Please visit our website:  
[www.environmentalscience.bayer.sg](http://www.environmentalscience.bayer.sg)

For more information, please contact:



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Read the product label before use.