

***THE MOST SUSTAINABLE
& ADVANCED TECHNOLOGY FOR
AFFORDABLE MOSQUITO MANAGEMENT***



**Aqua
K-Othrine®**

India's first water-based space spray

www.es.bayer.in | Toll free: 1800 212 7650

WHAT IS SPACE SPRAY?

Commonly known as fogging, it is an intervention for mosquito management, wherein liquid insecticide is dispersed into the air. Space sprays are applied mainly as thermal fogs or cold fogs.

THERMAL FOGGING

What: Hot gas is used to heat the pesticide spray, decreasing the viscosity of the carrier, and vaporizing it. When it leaves the nozzle the vapor hits colder air and condenses to form cloud of fog.

How: The hot emission gas is obtained from engine exhaust, friction plate/engine exhaust or from a pulse jet engine.

Carriers: Mostly oil, however water can be used for Aqua K-Othrine in compatible machines.

Droplets: Most of the droplets are smaller than 20µm.



ULV APPLICATION

What: The droplets are formed by the mechanical breaking up of the spray mixture

How: This is done either by passing it through high-pressure nozzles or by passing a slow stream of the mixture through a high-velocity vortex of air.

Carriers: Water

Droplets: Most of the droplets are of optimal size between 20-25 µm

DIESEL AS DILUENT IN SPACE SPRAY IS COSTLY

Here are the challenges caused by using diesel as a solvent:

Environmental Cost

- Diesel emissions cause pollution
- Diesel exhaust can cause health hazard
- Fire hazard



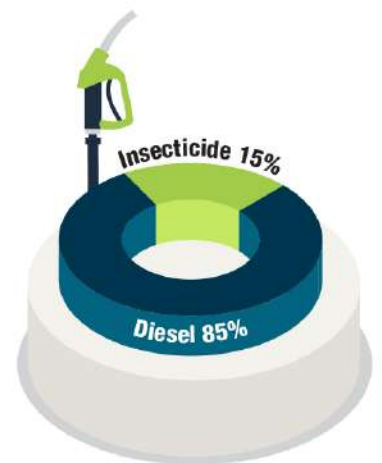
High cost of sourcing & storage



High cost of transportation



Increases the maintenance cost of machines



Operation Cost:

Diesel accounts for 85% of overall space spray operations

WATER-BASED SPACE SPRAY IS THE FUTURE

SWITCH TO ECO-FRIENDLY SPACE SPRAY TECHNOLOGY

Aqua K-Othrine is India's first water-based spray for sustainable mosquito management which eliminates use of diesel as diluent.

BENEFITS OF AQUA K-OTHRINE



Eliminates the use of Diesel, reducing pollution & spray cost significantly



Human Health Safety Assessment - High usage safety



FFAST technology which resists evaporation



Low Dosage



Non-flammable & odorless



Biodegradable – No environmental accumulation



Proven efficacy – Evaluated by National Institute of Malaria Research

WHO PQ Listed with reference number 008-001



COST PER LITRE EMULSION (₹)

Aqua K-Othrine is 3x - 6x times cost-effective

Aqua K-Othrine® ₹24.3

* Alternative 1 ₹80.0

* Alternative 2 ₹83.4

* Alternative 3 ₹172.5

* Common alternatives in the market

* Cost calculation is done based on the available information

DOSAGE:

THERMAL FOGGING:

Dilute 25 ml of Aqua K-Othrine in 5-10 Ltr of water to cover 1 Ha area

APPLICATION FOR ULV (ULTRA LOW VOLUME) :

Dilute 50 ml of Aqua K-Othrine in 1 Lit of Water to cover 1 Ha area

ANTIDOTES:

Diazepam. Treat Symptomatically

SUITABLE EQUIPMENT:

For Thermal Fogging - Thermal Foggers, Pulsejet or Friction plate

For Ultra Volume application - Knapsack cold foggers or a ULV machine



PRECAUTIONS BEFORE APPLICATION

- People and pets must vacate during indoor space spraying treatment
- Cover all the household items, including water, food, cooking utensils, fish tank, toys, LED/LCD tv, laptop, computer, sofa, bed etc.
- Switch off the ceiling fans or air conditioners before fogging indoors
- Close all doors and windows of the premises before spraying
- Shake the bottle well, before opening it
- Should be mixed with water; do not mix in oil
- Prepare only required amount for immediate use. Do not store diluted material
- Check the equipment for its compatibility and calibrate before application

PRECAUTIONS AFTER APPLICATION

- Keep all doors and windows closed for 30 minutes after spraying to ensure maximum efficacy
- Ventilate the treated premises thoroughly atleast for 15 mins and then only enter in
- Instruct the householder to sweep or mop the floor before reoccupation
- Where possible, decontaminate containers. Glass, plastic or metal containers can be cleaned by rinsing with water
- Always read the Label/leaflet supplied with product before use

Scan QR Code or go to the below link to for more information on compatible machines, dos and don'ts, usage etc.



OR go.bayer.com/ako

To get in touch with our technical expert or sales specialist, call our **toll-free number at 1800 212 7650**