

# MOSQUITO

ORDER: DIPTERA  
FAMILY: CULICIDAE



## ALIASES: MIDGE, BLOODSUCKERS, ETC.

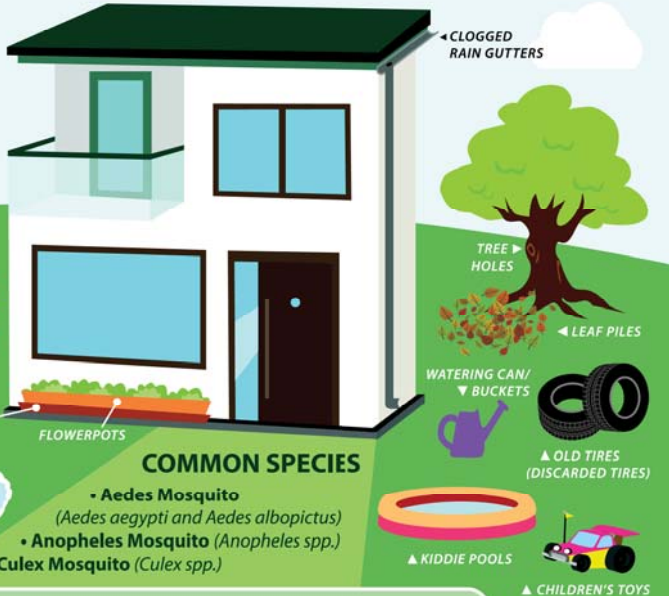
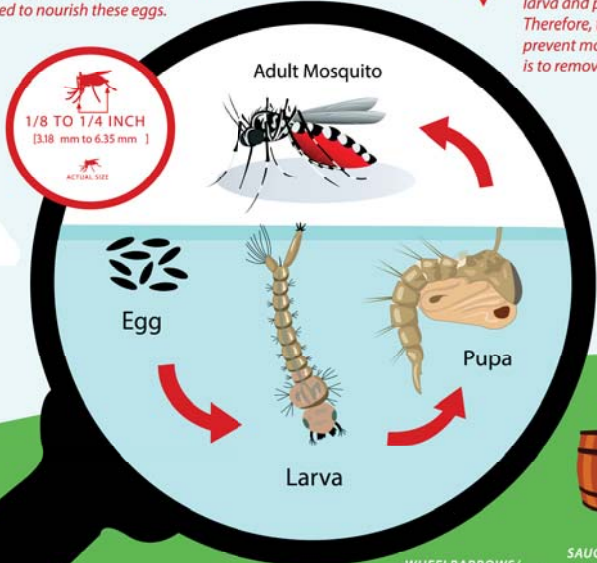
While primarily a nuisance, mosquitoes represent a serious public health threat because of their ability to transmit life-threatening diseases such as dengue, chikungunya, malaria, filariasis and zika virus. According to the World Health Organization, there are more than one million deaths a year attributable to the diseases carried by mosquitoes. That makes them the deadliest animal on the planet. To assist in the ongoing battle against this ubiquitous pest, Sumitomo Chemical, provides complete solutions for mosquito control.

## DESCRIPTION

Mosquitoes are slender, long-legged insects that measure 1/8-inch (3.18 mm) to 1/4-inch (6.35 mm) long. Their hind wings are shrunk and modified into small, knobbed structures called halteres, which function as stabilizers during flight. Mosquitoes have scales or hairs on their wings, legs and other body parts. Their mouthparts consist of a pair of palpi (sensory organs) and a long proboscis that females use to pierce skin and to suck blood.

The female mosquito lays 30-150 eggs every 2-3 days. Blood is needed to nourish these eggs.

The first three stages: eggs, larva and pupa are aquatic. Therefore, the best way to prevent mosquito breeding is to remove stagnant water.



## CONTROL STRATEGIES

- Successful mosquito control requires a multi-pronged strategy, including:
- ▶ SURVEILLANCE OF ADULTS AND LARVAL STAGES
  - ▶ SOURCE REDUCTION
  - ▶ USE STRUCTURAL BARRIERS
  - ▶ LARVICIDING/IGRS
  - ▶ ADULTICIDING



## COMMON SPECIES

- Aedes Mosquito (Aedes aegypti and Aedes albopictus)
- Anopheles Mosquito (Anopheles spp.)
- Culex Mosquito (Culex spp.)

When a mosquito bites, it injects saliva which contains an anesthetic and anticoagulant that prevents the blood from clotting in the puncture wound. These chemicals often produce an allergic response ranging from the typical small, red bump to much rarer episodes of severe systemic reactions.

## THE INTEGRATED MOSQUITO SOLUTION

### STRUCTURAL BARRIER

Long Lasting Insecticidal Net (LLIN)

#### Olyset® Net

- Olyset Net was the first LLIN to receive full WHOPEP recommendation
- Insecticide incorporated into the fibres of the net
- Controlled release technology
- Health organizations consider Long-Lasting Insecticide Nets (LLINs) to be the most effective method of preventing malaria in endemic areas throughout the world
- HACCP certified

### STRUCTURAL BARRIER

Long Lasting Insecticidal Net (LLIN)

#### Olyset® Pro

- Olyset Pro offers the same effective protection by utilising the Olyset® Technology
- Kills and repels various insects
- Good air flow
- Washable & No re-treatment
- Olyset Pro gives users the options to utilise Olyset® Technology textile for a various settings such as factories, warehouses and hotels. Usage includes but isn't restricted to "Window and Door Screens", "Curtains", "Material Covers", "Duct Covers/Filters", "Booths", "Partitions" and etc.
- HACCP certified

### LARVICIDING /IGR

Insect Growth Regulator (IGR)

#### Sumilarv® 0.5G

- Prevents larvae from developing into adult mosquitoes
- Effective at very low dose rates
- Long lasting: up to 6 months' control
- WHOPEP recommended
- WHO approved for application to drinking water (at 0.01mg al/litre)
- Active against mosquito larvae that are resistant to other pesticides

### ADULTICIDING

(i) Space spray

#### Gokilaht®-S 5EC

- WHOPEP recommended
- Rapid flushing-effect
- Quick knockdown effect
- Low mammalian toxicity

### ADULTICIDING

(ii) Space Spray

#### SumiPro™ EW

- Water-based
- Combines 2.A.I and synergist, better efficacy to ensure superior knock-down and kill
- Advanced Evaporation Retardant (AER) technology, maintain droplet size and efficacy at 100m distance
- For use against a wide range of flying insects

### ADULTICIDING

(iii) Space and Surface Spray

#### PEGUARD® FG161

- Oil-based
- Proven quick knock-down with direct kill
- Long lasting residual control
- Can be mixed with oil or water

Please read and follow product label directions and precautions prior to use.

<https://www.sumitomo-chem-envirohealth.com>

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