



- Long-lasting net treatment for the control of malaria vectors
- Highly effective treatment for new or used mosquito nets and curtains
- Can withstand a minimum of 20 washes and still remain effective
- Water-based, low odor formulation
- Treatment kit available for individual use



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ICON® 10CS contains lambda-cyhalothrin  
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## Long-lasting treatment for mosquito nets and curtains



# Introducing ICON Maxx

**ICON® Maxx is the new and innovative long-lasting treatment for mosquito nets and curtains offering protection against mosquitoes and malaria.**

**An ICON Maxx treatment is easy to apply and will withstand at least 20 washes whilst maintaining effectiveness.**

For many years Syngenta and its legacy companies ICI and Zeneca Public Health have been at the forefront of developing new and innovative solutions for the control of insect vectors of disease. This has led to the introduction of products for indoor residual spraying, mosquito net treatment, space spraying and mosquito larviciding.

This continual drive to improve the lives of those at risk of vector borne disease throughout the world has led to the development of ICON Maxx, an individual long-lasting insecticide net treatment.

Insecticide-treated nets are a widely supported tool used in malaria prevention and vector control campaigns worldwide. They can be used either alone or in combination with other key vector control measures such as indoor residual spraying (IRS) with ICON 10CS as part of an integrated approach to disease prevention.

Sleeping under a bed net protects the user from mosquito bites by either repelling or killing them. This reduces the risk of malaria transmission and provides the user with an improved sleeping experience through reduced disturbance.

However, many nets untreated by insecticide remain in the field, leaving the user at increased risk of contracting malaria.

## MAIN BENEFITS OF ICON MAXX FOR USERS

- Long-lasting effect from a single treatment
- Withstands at least 20 washes
- Can be used to treat new or used nets
- Kills mosquitoes in addition to repelling them
- A water-based low-odor formulation
- Available as a convenient treatment kit containing everything required to treat a net.

# What is ICON Maxx?

ICON Maxx is an insecticide treatment designed to convert existing or new untreated mosquito nets into long-lasting insecticide-treated nets. It is based on the WHO-approved capsule suspension formulation of lambda-cyhalothrin, ICON 10CS, plus a polymer binding agent.

The advanced capsule suspension technology used in ICON 10CS allows the controlled release of insecticide over time. The addition of the polymer binder helps retain the capsules on the net fiber during washing. This innovative combination provides protection from mosquitoes for at least 20 washes.

The treatment of the nets is a simple and easy process that can be undertaken in the field or factory.

## Performance of ICON Maxx

The efficacy of ICON Maxx treated nets has been determined in independent laboratory studies. Tunnel tests (see Figure 1) undertaken by the London School of Hygiene and Tropical Medicine demonstrate that after 20 washes, nets treated with ICON Maxx still provide effective control of *Anopheles gambiae* mosquitoes (Yates and Rowland, 2007).

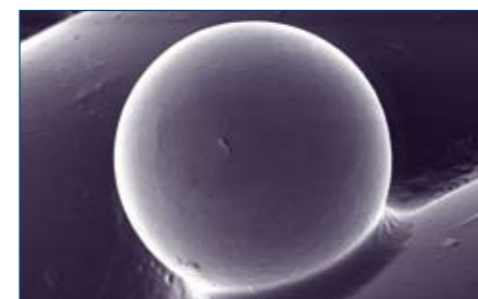
Further studies in Tanzania also demonstrate the effectiveness of ICON Maxx treated nets (see Figure 2). *Anopheles gambiae* were exposed to washed nets for three minutes and assessed for mortality after 24 hours. The results show that even after 25 washes the efficacy of ICON Maxx treated nets is exceeding the WHOPES criteria of 80% mortality (Rowland et al, 2007).

## Safety Profile

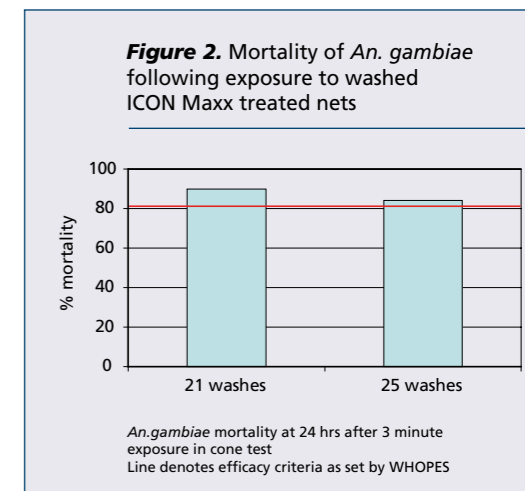
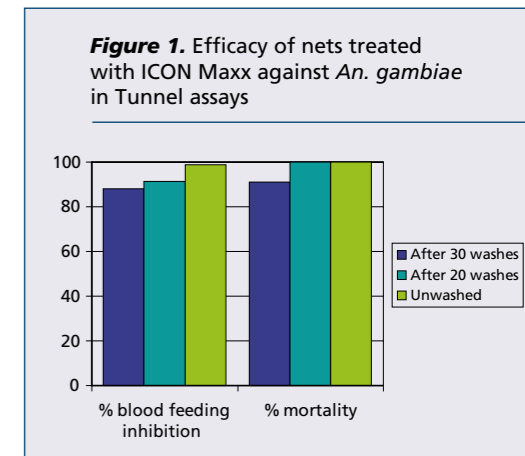
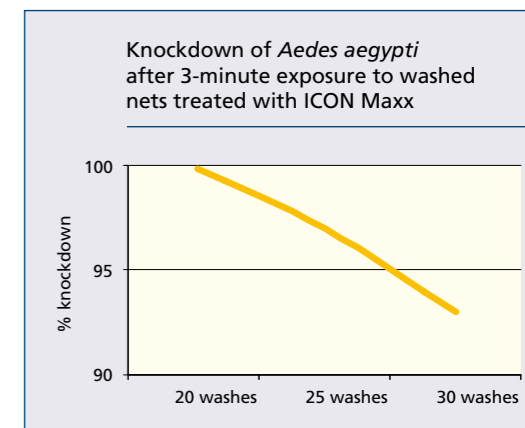
ICON 10CS used in ICON Maxx has an excellent toxicological and environmental safety profile. The encapsulated nature of the formulation further improves the safety profile of the product. ICON 10CS is in a low WHO hazard category – class 3 – unlikely to present acute hazard in normal use.

The Maxx binding agent is considered to meet US EPA criteria as a low risk polymer (represents minimal or no risk to man).

Label recommendations should be followed at all times.



An ICON capsule bound to a mosquito net



## References

Yates, A and Rowland, M (2007) Evaluation of a Long Lasting Insecticidal Net (LLIN) Treatment produced by Syngenta. Unpublished

Rowland M, Masha F, Mageza S, Lyimo I, Tundu P, Malima R, Maxwell C and Yates A (2007) Evaluation of ICON Maxx long lasting insecticide net treatment in experimental huts in Tanzania. Unpublished

