

LONG-LASTING CONTROL OF RESISTANCE HELPING YOU TO DELIVER IMPACT

For use in IRS programs, Actellic® 300CS provides long-lasting control of resistant mosquitoes resulting in significant programmatic efficiencies and unparalleled impact in malaria reduction.

 **Actellic® 300CS**
Long lasting residual insecticide

syngenta®

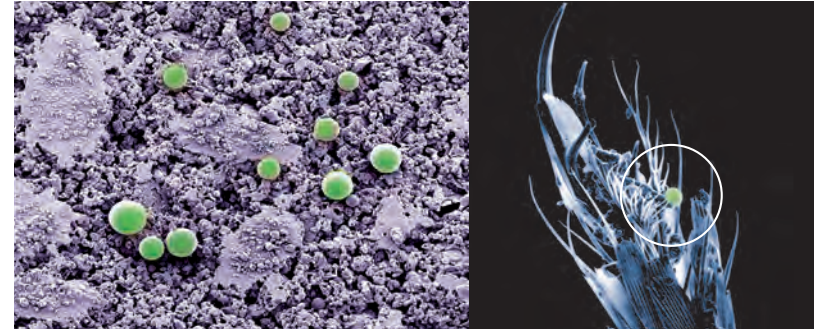
SYNGENTA AND MALARIA

Insecticide resistance, particularly to pyrethroids and carbamates, is a significant threat to the success of vector control programs and therefore malaria control and elimination targets.

To meet this challenge Syngenta introduced Actellic®300CS, a long-lasting micro-encapsulated formulation of the organophosphate insecticide.

ACTELLIC®300CS

Specifically designed for use in indoor residual spraying (IRS) programs, this next generation formulation has now been used in over 30 countries across Africa, delivering significant impact on malaria transmission.



Actellic 300CS capsules stay intact after application: Capsules on concrete
Mosquitoes pick up capsules from treated surfaces: Capsule on mosquito tarsae

Novel micro-encapsulated formulation delivering long-lasting control of mosquitoes

Actellic 300CS uses state-of-the-art microcapsule technology to deliver a rapid effect and long lasting control.

Actellic 300CS delivering programmatic impact

Figure 1. Longitudinal Impact of IRS on Malaria Parasitaemia in Northern Ghana, Abuaku B. *et al.* (2014), CDC, USAID.

After spraying Actellic 300CS the malaria cases dropped down by 61% in Northern Ghana compared to the situation the years before when the pyrethroid alpha-cypermethrin was used for IRS.

Figure 2. Actellic 300CS reduces the confirmed malaria cases by 64% in Manicaland, Zimbabwe (Brennan *et al.* (2015) AIRS (USAID, PMI)

The switch from pyrethroids to Actellic 300CS resulted in a 64% reduction of the confirmed malaria cases in Manicaland (Zimbabwe) in the year after. This is a region with known resistance against pyrethroids and carbamates.

Figure 1. Longitudinal Impact of IRS on Malaria Parasitaemia in Northern Ghana.

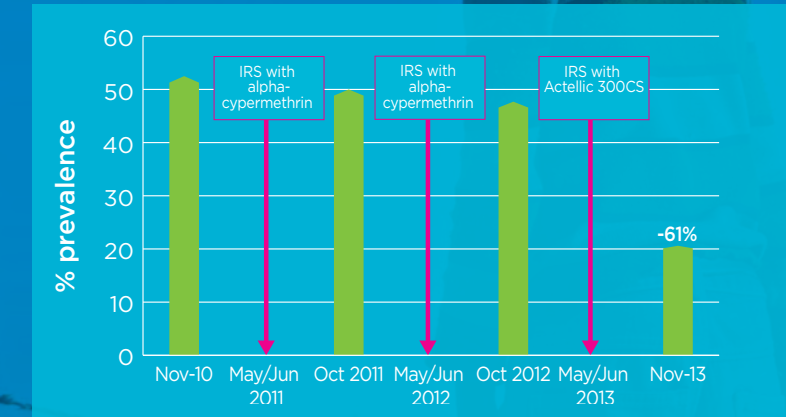
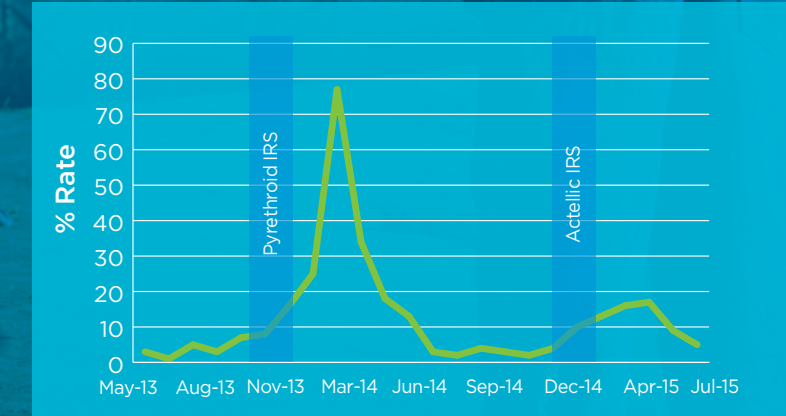


Figure 2. Actellic 300CS reduces the confirmed malaria cases by 64% in Manicaland, Zimbabwe



Actellic 300CS is the only micro-encapsulated non-pyrethroid listed as a WHO prequalified vector control product (*WHO PQT-VC Reference 012-001*).

Actellic 300CS has an excellent human and environmental safety profile and presents no significant risk to spray operators, householders or the environment when used as directed.

Actellic 300CS is WHO Class U: 'Unlikely to represent hazard in normal use'.

Acute oral LD ₅₀ rat (mg/kg)	>5000	Very low toxicity
Acute dermal LD ₅₀ rat (mg/kg)	>5000	No concern
Eye irritation, rabbit*	Minimal	No concern
Skin irritation, rabbit*	None	Very low toxicity

The use of Actellic 300CS does not require cholinesterase monitoring in spray operators.

FOR LIFE UNINTERRUPTED™

syngenta®

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Long-lasting IRS

- ▶ Potential for only one application per year providing significant spray program savings.
- ▶ Extended residuality accounts for unpredictable and fluctuating malaria seasons

Highly active

- ▶ Delivers reduction in malaria transmission
- ▶ Reduced nuisance biting of *Culex* mosquitoes results in greater house holder acceptance

Discover more on:

www.syngentavectorcontrol.com

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