

Actellic CS

This new non-pyrethroid insecticide formulation extends the residual effect of indoor residual spraying, providing an alternative to pyrethroid insecticides and reducing overall IRS costs and minimising disruption

Technical details

Actellic 300CS is a new micro-encapsulated formulation of an existing organophosphate insecticide, apirimiphos-methyl, containing 300g of active ingredient per litre.

Partner

This new formulation was developed by IVCC industrial partner Syngenta, who have been working with IVCC on this and other projects since 2005

Application

Actellic300CS is used as an indoor residual spray for the treatment of houses in disease endemic countries

Benefits over existing alternatives

- It is based on pirimiphos-methyl and is unaffected by pyrethroid resistance
- It has a longer residual effect than all other non pyrethroid IRS formulations. (Over 6 months on concrete and wood surfaces and 5 months on mud surfaces compared with 2-3 months on all surfaces for alternatives)
- This longer residuality allows for fewer spray rounds in disease endemic areas

Features

- Broad spectrum mosquito control
- Non staining after application
- Acceptable odour
- Safe in use both for human safety and the environment
- Passes WHOPEs risk assessment

Registrations

- Approved in Malawi, Mozambique, Zambia, Ghana, Benin, Liberia, Tanzania
- Registrations are pending in Kenya, Uganda, Ethiopia, Sudan (North), Cameroon, CILLS countries (Mali, Burkina Faso, Senegal), Cote D'Ivoire, Angola, Madagascar, Nigeria
- WHOPEs Recommendation achieved in September 2013

Time to develop

Project started Q3 2007 and IVCC funding was completed by Q4 2009. It was submitted to WHOPEs Q1 2010 and received the final recommendation in September 2013. Initial sales through PMI in May 2012.

Performance

- Adoption: expanding as countries seek resistance management solutions
- 5 countries have adopted Actellic 300CS to date
- Estimate that >1 million households already protected
- Malaria reduction: early M&E data indicates significant impact
- Illovo Sugar, Mozambique: 44% drop in active cases of malaria
- Burkina Faso mine: 158 cases affecting expats in 2012. Following 2013 use of Actellic 300CS the cases dropped to 58 over the rainy season



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