

Interceptor® LLIN – Long Lasting Insecticide Net from BASF



Ansgar Wille
Manager Value Chain - Global Leader Interceptor
Global Strategic Marketing Crop Protection
BASF SE

2/28/2008

1

INTERCEPTOR® LLIN with FENDOZIN®



INTERCEPTOR® LLIN with FENDOZIN®
Moustiquaire d'imprégnation longue durée
Long Lasting Insecticide treated Net

INTERCEPTOR® LLIN with FENDOZIN® provides long-lasting protection against mosquito transmission of malaria.

INTERCEPTOR® LLIN with FENDOZIN® provides long-lasting protection against mosquito transmission of malaria.

Contents: 1 moustiquaire net

INTERCEPTOR® long lasting insecticide net (LLIN) is a unique high-performance mosquito net that contains:

Fendozin® textile auxiliary, a new finishing product that binds the potent BASF insecticide **Fendona®** in a special coating to the fibers of the net.

Fendona® is slowly released and rapidly knocks down, kills or repels mosquitoes as they come in contact with the net



2/28/2008

2

INTERCEPTOR® LLIN Key Benefits



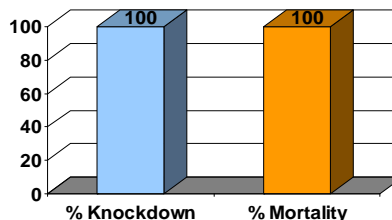
- Fast knockdown, repellency, mortality and long-lasting control on mosquito vectors.
- **Fendozin** coating on the fibers of **Interceptor** nets is invisible and odorless, thus providing excellent comfort when sleeping under the net.
- Wide margin of safety. Risk assessment studies indicate that the risk for humans is negligible.
- Effective even after 20 washes of the net.
- Does not require heat or much time for insecticide regeneration ⇒ 24h.
- High-quality manufacturing standards.
 - BASF maintains a high level of stewardship for workers and the environment.
 - High product quality and reliability.
 - **Interceptor** nets are subject to the same rigorous BASF quality control standards to which all BASF products must adhere. BASF uses only active ingredients and raw materials that meet the latest international specifications for purity and performance.

INTERCEPTOR® Manufacturing consistency



Quality Control Bioassays from Production March – August 2007

- Production lots analyzed for active ingredient content
- Biological efficacy averaged
 - 100% mortality at 24 hours and
 - 100% Knockdown at 60 minutes post-exposure after 20 washes



→ Consistent quality from in-line process and FENDOZIN technology

INTERCEPTOR® High worker standards



- **Interceptor** is an in-line factory-treated net, ensuring consistent quality.
- BASF's **Interceptor** nets are subject to the same rigorous BASF quality control standards to which all products must adhere.
- Worker safety maintained by elimination of exposure points, formal worker training program and use of Personal Protection Equipment
- Manufacturing Consistency ⇒ reliable performance



➔ **BASF puts its logo on every net as a sign of quality assurance in each step of the manufacturing process**

2/28/2008

5

Outstanding Strength



- Exceeds WHO standards for bursting strength
- Reinforced seams and strong hanging loop materials
- Seams have the extra strength of over-lock stitching
- **FENDOZIN** technology utilizes low curing temperatures and prevents creation of brittle fibers
- No corrosive solvents used in production process, all components are water-based



➔ **Components and manufacturing process are designed to enhance the physical strength of INTERCEPTOR nets**

2/28/2008

6

INTERCEPTOR® India Field Trials – An example



- Field evaluation assessed entomological impact of Interceptor on prevailing malaria vectors and also the epidemiological impact in three malaria endemic areas of the states of Orissa (District Sundergarh), Assam (District Kamrup) and Chhattisgarh (District Kanker)
- **INTERCEPTOR** was effective in controlling the indoor density of malaria vectors. There was decline in the overall entry rate of mosquitoes in houses with Interceptor nets at all the three sites coupled with reduction in the feeding success rate.
- **INTERCEPTOR** nets exhibited wash-resistance up to the observed number of 20 washes. Bioavailability of insecticide on net fiber was found effective against malaria vectors, *An. culicifacies*, *An. fluviatilis* in Orissa and *An. culicifacies* Chhattisgarh and *An. minimus* in Assam.
- Significantly reduced malaria incidence in villages
- User Survey
 - Community compliance and acceptance was high with no adverse health events were reported
 - Villagers reported that there is reduction in mosquito bites (74-90%) with effect on other non-target insect pests

2/28/2008

7

INTERCEPTOR® LLIN with FENDOZIN®



- WHOPEs Approved
 - 2008 - launch of WHOPEs Phase III trials
 - Fast knockdown – WHOPEs confirmation that alphacypermethrin is fastest pyrethroid
 - Outstanding Performance
 - Outstanding strength – extra physical strength in **INTERCEPTOR** (hanging loop material and reinforced seams)
 - Manufacturing consistency = reliable performance
 - High quality standards – WHO-approved insecticide; multiple QC checks throughout process; high level stewardship for workers and environment
 - **Shaping the future** – health benefits; local stitching programs; BASF Public Health Portfolio products; new chemistry
- ➔ **INTERCEPTOR is a unique high performance LLIN**

2/28/2008

8

BASF
The Chemical Company

Fast knockdown
and long-lasting
**mosquito
control**
in one net.

BASF
Public Health

Thank you for your attention.

www.basfpublichealth.com

INTERCEPTOR
with
FENDOZIN

BASF
The Chemical Company

INTERCEPTOR®
Safety and comfort

INTERCEPTOR
with
FENDOZIN

- Risk assessment studies revealed risk for human beings (newborn, child and adult) is negligible when sleeping under Interceptor nets.
- BASF evaluated the potential human safety issues of sleeping under Interceptor nets treated with Fendozin using the World Health Organization Pesticide Evaluation Scheme Generic Assessment Model for Insecticide Treatment and Subsequent Use of Mosquito Nets (WHO/CDS/WHOPES/GCDPP/2004.6 – WHO/PCS/04.1)
- Unique BASF treatment method provides controlled bioavailability of active ingredient (prevents high concentration of a.i. on surface) to further increase safety
- Mesh size of 24 holes/cm², smaller than polyethylene nets -- ensures mosquitoes cannot enter the net yet still provide maximum soft comfort and ventilation

→ **INTERCEPTOR**
provides
outstanding
comfort and safety

Interceptor with Fendozin:
Maximum control
wash after wash.

2/28/2008 10