

- ✓ **Broad-spectrum for crawling and flying insects control**
- ✓ **10% of the active is free for an outstanding immediate pest control effect**
- ✓ **90% of the active is in micro-capsules for a residual pest control effect up to six months**

- ✓ **Easy dosing, non-staining, low odor**

SPECIFICATIONS

- **Composition:**
 - 90 g/l Cypermethrin (CAS n°52315-07-8)
- **Formulation:** Capsule suspension water based (>67%)
- **User:** PCO.
- **Targets:** For the control of flying insects (Mosquitoes, flies, moths) and crawling insects (cockroaches, ants, fleas, spider, bed bug and mites).
- **Use:** In public hygiene areas including offices, shops, factories, museums, cinemas, hospitals (not in occupied wards), military facilities, ships and waste storage areas.

DOSES AND INSTRUCTIONS

- **Dose rate:** To protect 100m²: 25 ml in 1 liter of water to apply on 20 m² (area actually treated).
- **Instruction of use:** Apply the product on insects path and/or in nooks, crannies, cracks, crevices, along baseboard, behind household appliances.
- **For cockroaches:** in all hot, humid or dark places favorable to roaches proliferation.
- **For Ticks and fleas:** on carpets, around Pets' bed, in broom closet and all cleaning devices which have been in contact with pests.
- **For mosquitoes:** around the sources of light, under beds, on curtains and net curtains.
- **For Flies:** around the window and doors.
- **For House spider:** in cracks and crevices and around windows.
- **For cloth and food moths:** Spray around and inside of closets, door frames, doors and drawers after removing food and cloth (Wait until complete drying before filling cupboard) - Don't put food in direct contact with treated surfaces)
- **Dust mites:** Apply on carpets, mattresses and other fabrics in the house if after they are protected by a cover. Leave undisturbed to dry for two or three hours. Make a test on a small hidden area before treatment.
- **For Bed Bug:** Spray around and under the bed and along the baseboards near the bed. After removing the drawers from the furniture, the inside of the cabinetry should be sprayed as well as the bottom and sides of the drawers. If needed the clothes in the drawers should be removed and laundered. Spray around and inside of closets, door frames and doors. Spray molding at the top

Usable as a cracks and crevices treatment in food handling areas including, canteens, restaurants, food factories and ship's galleys.

Usable in domestic premises – including kitchens, as a cracks and crevices treatment only. Not for use on soft furnishings, bedding or mattresses in direct contact with skin and/or dedicated to children under 36 months.

Usable for material transport and premise in contact with packed foodstuff of vegetal or animal origin.

Usable as treatment for material transport, premise used for storage and transport of garbage.

and bottom of the room and around windows. Spray drawers' joints, both top and bottom. Spray dressers from below and where dressers are in contact with the floor. Spray where the bed is in contact with the floor, spray chairs and underneath chairs. Spray all baseboards, loose plaster, behind bed frames and headboards, beneath beds and furniture, and bed base and bed frames. Do not apply to furniture surfaces or mattresses where people will be laying or sitting. Product is not adapted to treat infested bedding.

- **For packed foodstuff insects:** Spray the product on all the surfaces in contact with packed foodstuff (walls, floor, storage material...)
- **Onset of the biocidal effect:** Few minutes after application.
- **Residual effect:** After contact with treated surfaces 100% mortality:
 - In less than 1 hour up to 3 months after application.
 - In less than 24 hours between 3 and 6 months after application.
- **Application frequency:**

Curative treatment in case of infestation (normal frequency of application: 1/year). In case of re-infestation, renew the application every 6 months. If the treated surfaces are cleaned or exposed to weather (entrance porches, terraces ...), renew the application, if necessary, every 1 to 2 months.
- **Cleaning instructions:** Clean the treated surfaces only to stop the biocidal effect : clean with a detergent and hot water.
- **Period of use:** All year around.

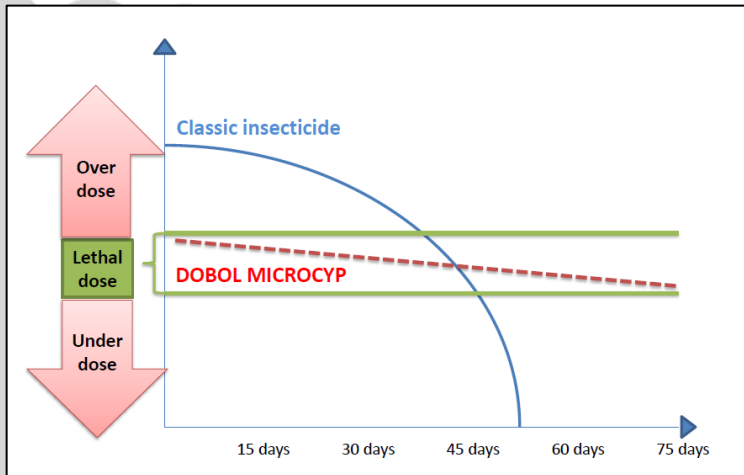


MODE OF ACTION

The insecticidal active ingredient is enclosed in polymers, impermeable to aqueous medium, which become porous while drying, releasing the insecticide in a regular and prolonged way.

The aqueous solution of Dobol MICROCYP contains millions of microcapsules in suspension (1 to 2 million microcapsules per ml.) containing the insecticidal active ingredient.

Microencapsulation increases the duration of the insecticidal action, regulates the action that no longer depends on the treated support (PH, porosity ...), climatic conditions or brightness. The microcapsules are transported by insects and contaminate the colony during social exchanges.



TEST RESULTS

The trial was done in the laboratory in a test chamber in conditions simulating the real conditions of use, by setting treated panels of two types of materials, porous and non-porous (50% of the floor area), releasing insects and counting their mortality after 24 hours of exposure. The insects had the choice not to be in contact with the product and were not forced to be in contact with the treatment to reach water and food sources.

Results of the simulated test on crawling insects

Common name (Latin name)	Day 0	+1 month	+3 months	+6 months
German cockroach (<i>Blattella germanica</i>)	100%	100%	100%	100%
Oriental cockroach (<i>Blatta orientalis</i>)	100%	100%	100%	100%
American cockroach (<i>Periplaneta americana</i>)	100%	100%	100%	100%
Cat flea (<i>Ctenocephalides felis</i>) - larva and adult	100%	100%	100%	100%
Bed Bug (<i>Cimex lectularius</i>)	100%	100%	100%	100%
Spider (<i>Tegenaria domestica</i>)	100%	100%	100%	100%
Tick (<i>Ixodes ricinus</i>)	100%	100%	100%	100%
Dust mite (<i>Dermatophagoides pteronyssinus</i>)	100%	100%	100%	100%

Results of the simulated test on flying insects

Common name (Latin name)	Day 0	+1 month	+3 months	+6 months
Tiger mosquito (<i>Aedes albopictus</i>)	100%	100%	100%	100%
Mosquito (<i>Aedes aegypti</i>)	100%	100%	100%	100%
Mosquito (<i>Culex quinquefasciatus</i>)	100%	100%	100%	100%
Mosquito (<i>Anopheles gambiae</i>)	100%	100%	100%	100%
Stable fly (<i>Stomoxys calcitrans</i>)	100%	100%	100%	100%
Fabric moth (<i>Tineola bisselliella</i>)	100%	100%	100%	100%




Results of the simulated test on packed foodstuff insects

Common name (Latin name)	Day 0	+1 month	+3 months	+6 months
Flour beetle (<i>Tribolium confusum</i>)	100%	100%	100%	100%
Red flour beetle (<i>Tribolium castaneum</i>)	100%	100%	100%	100%
Flour moth (<i>Plodia interpunctella</i>)	100%	100%	100%	100%
Food moth (<i>Ephestia kuehniella</i>)	100%	100%	100%	100%
Wheat weevil (<i>Sitophilus granarius</i>)	100%	100%	100%	100%
Rice weevil (<i>Sitophilus oryzae</i>)	100%	100%	100%	100%
Lesser grain borer (<i>Rhizopertha dominica</i>)	100%	100%	100%	100%
Sawtoothed grain beetle (<i>Oryzaephilus surinamensis</i>)	100%	100%	100%	100%
Hide beetle (<i>Dermestes maculatus</i>)	100%	100%	100%	100%
Drugstore beetle (<i>Stegobium paniceum</i>)	100%	100%	100%	100%
Mealworm beetle (<i>Tenebrio molitor</i>)	100%	100%	100%	100%
Foreign grain beetle (<i>Ahasverus advena</i>)	100%	100%	100%	100%
Khapra beetle (<i>Trogoderma granarium</i>)	100%	100%	100%	100%
Cigarette beetle (<i>Lasioderma serricorne</i>)	100%	100%	100%	100%

TECHNICAL SPECIFICATIONS

Parameters	Normal Value	Reference/method
Aspect	White microcapsules suspension	
AI tolerance cypermethrin	81-99 g/kg	FAO
Density	1,03-1,06 g/ml	A3 Method and OECD No. 109
pH	4-8 (1%, 500 ppm)	Diluted 1% in CIPAC MT 75.3
Wet sieve residue 75 µm	< 1%	
Particle size d 0,50 µm	6 – 14 µm	
Brookfield viscosity	300-800 mPas	Spindle #63@50 U/min

PACKAGING

code article	description	volume	pictogramme	caisse américaine	palettisation
A801321	flacon COEX	200ml		x6 unités	x243 cartons



CLASSIFICATION

Classification according to Regulation (EC) No 1272/2008

H318 Causes serious eye damage

H410 Very toxic to aquatic life with long lasting effects

EUH208 contains 1,2-Benzisothiazolin-3-one. May produce an allergic reaction.



Danger

P280 Wear protective goggles

P273 Avoid release to the environment

P305+P351+P338+P310 IF IN EYES Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

P391 Collect spillage.

P501 Dispose of contents and container to a waste disposal center

BIOCIDE AGENDA FOR CYPERMETHRIN BASED PRODUCTS

	Explanation	Timeline	Expected date
BPC opinion meeting on active ingredient	BPC (biocide product committee) gives opinion on inclusion of the AI (active ingredient)	End of active ingredient evaluation	March 2017
BPC opinion publication on active ingredient	The opinion of BPC is published	1 to 3 months later	April to June 2017
Approval publication of the active ingredient	On BPC opinion base, European commission publishes the AI approval regulation in OJ EU	2 to 5 months	+/- September 2017
Limit date of product dossier(s) submission	Submission of the registration dossier in a selected MS (member state) and mutual recognition dossier in the other countries where the product is sold.	24 months after BPC opinion publication	April to June 2019
First product approval publication	Biocide product registration in the selected MS	1 to 2 years after submission	April 2020 to June 2021
Mutual recognition submission of product(s)	Conclusion of selected member state must be transferred to all the countries where intentions of mutual recognition have been submitted	2 months after first product approval	
Mutual recognition approval of product(s)	Mutual recognition evaluation	4 to 12 months	

