



Insecticide / Mosquito Oil Testing in Water

INTRODUCTION

Mosquito breeding is a risk of health and transmit diseases. FEHD forces the person for construction site to control mosquito breeding and collect water samples for testing to prove the presence of insecticide/mosquito oil. The following tables are the example of registered pesticides for outdoor mosquito control from AFCD.

Registered Pesticides that can be used for Outdoor Mosquito Control

Common Name of the Active Ingredient	Formulation and Maximum Concentration for Supply and Retail	Type of pesticide	Registration No.
Larvicide			
<i>Bacillus thuringiensis</i> var. <i>israelensis</i> (Bt)	<ul style="list-style-type: none"> BR (no conc. restriction) EC (no conc. restriction) GR (no conc. restriction) OF (no conc. restriction) P (no conc. restriction) SC (no conc. restriction) WP (no conc. restriction) 	Biopesticide - bacteria	2P12
Temephos	<ul style="list-style-type: none"> EC - 50% w/v GR - 5% w/w SG - 1% w/v 	Organophosphate	2P179
S-Methoprene	<ul style="list-style-type: none"> CS - 5% w/v GR - 1.3% w/w 	Insect growth regulator	2P249
Larvicidal oil	<ul style="list-style-type: none"> AL (no conc. restriction) 	Refined petroleum oil	2P276
* <i>Bacillus sphaericus</i> (Bs)	<ul style="list-style-type: none"> GR (no conc. restriction) P (no conc. restriction) 	Biopesticide - bacteria	2P282
* α -isooctadecyl- ω -hydroxyl poly(oxy-1,2-ethanediyl)	<ul style="list-style-type: none"> L (no conc. restriction) 	Monomolecular film - MMF	2P283
Adulticide			
Bioallethrin-S/Permethrin/PBO	<ul style="list-style-type: none"> AS - 0.2%/4.9%/4.9% w/v EC - 1%/17%/17% w/v SL - 0.2%/11%/11% w/v 	Pyrethroid with synergist	2P24
Chlorpyrifos	<ul style="list-style-type: none"> CS - 20.8% w/v EC - 40% w/v (or 44.9% w/w) 	Organophosphate	2P48

Registered Pesticides that can be used for Outdoor Mosquito Control (Continued)

Common Name of the Active Ingredient	Formulation and Maximum Concentration for Supply and Retail	Type of pesticide	Registration No.
Cyfluthrin	<ul style="list-style-type: none"> EC - 5% w/v SL - 5% w/v UL - 5% w/v 	Pyrethroid	2P57
Cypermethrin	<ul style="list-style-type: none"> EC - 30% w/v UL - 30% w/v 	Pyrethroid	2P62
Malathion	<ul style="list-style-type: none"> EC (no conc. restriction) L (no conc. restriction) 	Organophosphate	2P125
Permethrin	<ul style="list-style-type: none"> AL - 1% w/w CS - 25% w/w EC - 50% w/v L - 25% w/v ME - 10% w/w UL - 5% w/v 	Pyrethroid	2P149
Pyrethrins / PBO	<ul style="list-style-type: none"> AE - 1.8%/10% w/w AS - 1%/8% w/v L - 15%/65% w/w UL - 0.5%/5% w/v 	Natural pyrethrins with synergist	2P169
beta-Cypermethrin	<ul style="list-style-type: none"> EW - 4.5% w/w 	Pyrethroid	2P278
Esbiothrin/Permethrin/PBO	<ul style="list-style-type: none"> EC - 0.5%/10%/10% w/w 	Pyrethroid with synergist	2P280
* Permethrin / PBO	<ul style="list-style-type: none"> L - 32% / 66% w/w 	Pyrethroid with synergist	2P284
* Resmethrin / PBO	<ul style="list-style-type: none"> L - 20% / 60% w/w 	Pyrethroid with synergist	2P285
* d-Phenothrin / PBO	<ul style="list-style-type: none"> L - 10% / 10% w/w 	Pyrethroid with synergist	2P286

* Newly registered active ingredients or new combinations of active ingredients in June 2004. Local supply may not be available at the moment.

ALSHK has provided the following pesticide testing to analyse the major ingredient in water.

Pesticides Testing	Method Reference	Limit of Reporting (LOR)*	ALS sample container	FEHD sample container	
In ALS Hong Kong (TAT-7-10 working days)					
Chlorpyrifos 毒死蜱	USEPA 8270	0.5 µg/L	500mL Amber glass bottle (orange label)	50mL glass bottle with seal	
Cypermethrins (total) 氯氰菊酯		0.5 µg/L			
Malathion 馬拉硫磷		0.5 µg/L			
Total Petroleum Hydrocarbons (TPH) 總石油碳氫化合物	USEPA 8015	50 -100 µg/L			
In ALS overseas laboratories (TAT- 15-20 working days)					
Cypermethrin 氯氰菊酯	USEPA 535 USEPA 1694	20 µg/L			
Bifenthrin 聯苯菊酯		10 µg/L			
Permethrin 氯菊酯 / 百滅寧		20 µg/L			
Pirimiphos-methyl 亞特松 / 甲基嘧啶磷		10 µg/L			
Propoxur 殘殺威		10 µg/L			
Temephos 雙硫磷	In house LC/MS-MS	2 µg/L			

*LOR will be adjusted if sample volume is insufficient. e.g., FEHD container.

For More Information

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