

Company: Fumajet Tecnologias Ltda.

Sector: Technical Department

TECHNICAL NOTE: 20240430

Date: April 30, 2024

SUBJECT: Types of diseases and control measures

DISEASE		VECTOR	CONTROL ACTIONS	SYSTEM
1	DENGUE / ZIKA / CHIKUNGUNYA / YELLOW FEVER	MOSQUITO <i>Aedes aegypti</i> , <i>Aedes albopictus</i>	Spatial control (fogging)	Fogging
			Larvicide, strategic point and indoor spraying, and others.	Spraying
2	MALARIA	MOSQUITO <i>Anopheles darlingi</i> , <i>Anopheles aquasalis</i> , <i>Anopheles spp.</i>	Spatial control (fogging)	Fogging
			Indoor spraying	Spraying
3	PEST, INSECT AND VECTOR CONTROL	FLEAS; TICKS; COCKROACHES; SCORPIONS, and others.	Residual spraying	Spraying
4	CHAGAS DISEASE	KISSING BUG Triatomines	Indoor spraying	Spraying
5	LEISHMANIASIS	SANDFLY Phlebotomines	Indoor spraying	Spraying
6	FILARIASIS / ENCEPHALITIS	MOSQUITO <i>Culex quinquefasciatus</i>	Spatial control (fogging)	Fogging
			Residual spraying Larvicide spraying	Spraying

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SUBJECT: Insecticides Registered by the Brazilian Ministry of Health / ANVISA Recommended for THERMAL FOGGING

Product (Trade Name)		Active Ingredient	Chemical Group	Manufacturer	ANVISA Reg No.	Dilution	Concentration (%)	Target Pest
1	Cyperex 250 CE	Cypermethrin / Pyrethroid	Cypermethrin / Pyrethroid	ROGAMA	3.042.500.460.010	200 ml / 10 L of solution (mineral oil)	0.5	Mosquitoes
2	VECTRON 20CE	ETOFENPROX	PYRETHROID	NEOGEN	3.0425.0146.001-4	1.5 L / 10 L of solution (mineral oil or water)	0.3	Mosquitoes (Aedes aegypti and Anopheles spp.)
3	Combacter 800 IA	Alkyl dimethyl benzyl ammonium chloride	Alkyl dimethyl benzyl ammonium chloride	DOMINUS QUÍMICA	333.080.044	10 ml per 10 L of solution	0.06	Sanitization, washing and disinfection in general
4	ACTELIC PROF	PIRIMIPHOS-METHYL	ORGANOPHOSPHATE	SYNGENTA	3.0119.6638.001-2	10 ml to 250 ml per 10 L of solution	0.5	Aedes aegypti (Dengue) Culex sp mosquitoes or midges)
5	CYMPERATOR SCE	CYPERMETHRIN	PYRETHROID	SYNGENTA	3.0119.6650.001-8	200 ml / 10 L of solution (mineral oil)	0.5	Mosquitoes (Aedes aegypti)
6	FLUDORA CO-MAX	FLUPYRADIFURONE / TRANSLUTHRIN	BUTENOLIDE / PYRETHROID	ENVU	3178900270038.	7.5 g per 10 L of water solution	0.78	Adult mosquitoes (Aedes sp)
7	SHOOT	PRALLETHRIN PBO	PYRETHROID	NEOGEN	3.0425.0077.001-1	80 ml / 1 liter of mineral oil	9.75	Mosquitoes (Aedes aegypti)
8	ICON SCE	LAMBDA-CYHALOTHRIN	PYRETHROID	SYNGENTA	3.0119.0014.001-3	40 to 80 ml per liter of solution	0.5	Mosquitoes - Flies
9	K-OTHRINE FOG50	DELTAMETHRIN	PYRETHROID	ENVU	3.1789.0007.001-2	10 ml / 1 liter of mineral oil	0.5	Aedes ssp., Culex ssp.
10	NOKGARD 25CE	PRALLETHRIN PBO	PYRETHROID	BEQUISA	3.1606.0028.001-9	20 ml / 1 liter of mineral oil	2.5	Mosquitoes
11	SYNPER PLUS	PERMETHRIN	PYRETHROID	BEQUISA	3.1606.0043.001-0	10 ml / 1 liter of mineral oil	38.4	Flies and mosquitoes
12	Lankron 50 CE	LAMBDA-CYHALOTHRIN	PYRETHROID	ROGAMA	3.1606.0043.001-1	100 ml / 10 L of solution (mineral oil)	0.05 a 0.1	Mosquitoes (Aedes e Culex)

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SUBJECT: Insecticides Registered by the Brazilian Ministry of Health / ANVISA Recommended for **SPRAYING**

Product (Trade Name)		Active Ingredient	Chemical Group	Manufacturer	ANVISA Reg No.	Dilution	Concentration (%)	Target Pest
1	ACTELLIC PROF	PIRIMIPHOS-METHYL	ORGANOPHOSPHATE	SYNGENTA	3.0119.6638.001-2	5 ml to 100 ml / 10 L of solution	0.05 to 0.5	Mosquitoes, larvae and pupae (Aedes spp. and Culex spp.), flies, cockroaches, woodworms and fleas
2	CYMPERATOR 5CE	CYPERMETHRIN	PYRETHROID	SYNGENTA	3.0119.6650.001-8	40 ml / 10 L of solution	2.5	Mosquitoes, Cockroaches, Ants, Termites, Flies
3	FLUDORA CO-MAX	FLUPYRADIFURONE	BUTENOLIDE / PYRETHROID	ENVU	3178900270038.	7.5 g to 10 L of water solution	0.78	Adult mosquitoes (Aedes sp, Anopheles spp.)
4	SHOOT	PRALLETHRIN PBO	PYRETHROID	NEOGEN	3.0425.0077.001-1	80 mL / 1 L of solution	9.75	Mosquitoes (Aedes aegypti), Cockroaches, Flies
5	VECTRON 25CE	ETOFENPROX	PYRETHROID	NEOGEN	3.0425.0146.001-4	20 ml to 50 ml / 10 L of solution	0.05 to 0.125	Mosquitoes (Aedes aegypti, Anopheles spp.), mealworms and woodworms, cockroaches and fleas
6	ICON 5CE	LAMBDA-CYHALOTHRIN	PYRETHROID	SYNGENTA	3.0119.0014.001-3	100 ml to 200 ml / 10 L of solution	0.05 to 0.1	Flies, mosquitoes, ants, cockroaches, fleas, beetles
7	K-OTHRINE FOG50	DELTAMETHRIN	PYRETHROID	ENVU	3.1789.0007.001-2	50ml / 10 L of solution	0.1	Flies and Mosquitoes (Aedes spp., Culex spp.)
8	NOKGARD 25CE	PRALLETHRIN PBO	PYRETHROID	BEQUISA	3.1606.0028.001-9	100 ml / 10 L of solution	0.025	Flies, Mosquitoes, Cockroaches and Fleas
9	SYNPER PLUS	PERMETHRIN	PYRETHROID	BEQUISA	3.1606.0043.001-0	50 ml / 10 L of solution	0.19	Flies, Mosquitoes, Cockroaches, Moths, Drywood Termites
10	ROUNDUP ORIGINAL	Glyphosate	Substituted Glycine	ROUNDUP	01119 (MAPA)	10 to 20 ml per liter	5.7	General herbicide