TECHNICAL USE SHEET

ReMoa Tri®

Triple-Action Insecticide Space Spray

ReMoa Tri®
TRIPLE-ACTION INSECTICIDE
SPACE SPRAY

ReMoa Tri® is a novel triple mode of action space spray for the control of adult susceptible and pyrethroid-resistant mosquitoes. Based on a fermented bacterium, ReMoa Tri achieves broad-spectrum efficacy against metabolic and knockdown resistance through the unique formulation of three active ingredients - Abamectin (macrocyclic lactone), Fenpropathrin (type II pyrethroid), and C8910 (fatty acid chain).

Ground Application

ReMoa Tri can be sprayed between 0.33 to 1.02 fluid ounce per acre.

When targeting susceptible mosquito population apply ReMoa Tri at a rate of 0.33 fl. oz./acre to 0.66 fl. Oz./acre, undiluted. Vehicle-mounted equipment flow rates should be set to deliver a flow rate of 2.02-6.08 fl. oz./minute at an average speed of 10 mph using a 300-foot swath.

When targeting pyrethroid resistant Aedes and Culex mosquito populations apply ReMoa Tri at a rate of 0.67 fl. oz./acre to 1.02 fl. oz./acre undiluted. Vehicle mounted equipment flow rates should be set to deliver a flow rate between 4.03 - 6.08 fl. oz./minute at an average speed of 10 mph using a 300-foot swath.

Refer to the dilution table below for flow rate calculations for diluted end-use formulations of ReMoa Tri.

Flow Rate Based on a 300-Foot Swath Width (Fluid Ounces Per Minute)

Application Rates (Pounds of Fenpropathrin AI per Air Column Acre)	Application Rates (Pounds of Abamectin AI per Air Column Acre)	Application Rates (Pounds of C-8910 AI per Air Column Acre)	ReMoa Tri (fl oz Per Air Column Acre)	Vehicle Speed (MPH)	Undiluted	Diluted 1:0.5	Diluted 1:1	Diluted 1:2
0.0008	0.0003	0.0002	0.341 (Low)	5	1.03	1.55	2.07	3.10
				10	2.07	3.10	4.13	6.20
				15	3.10	4.65	6.20	9.29
				20	4.13	6.20	8.26	12.39
0.00157	0.00059	0.00039	0.669 (Mid)	5	2.03	3.04	4.05	6.08
				10	4.05	6.08	8.11	12.16
				15	6.08	9.12	12.16	18.24
				20	8.11	12.16	16.21	24.32
0.00239	0.00089	0.0006	1.018 (High)	5	3.09	4.63	6.17	9.26
				10	6.17	9.26	12.34	18.51
				15	9.26	13.88	18.51	27.77
				20	12.34	18.51	24.68	37.02

When targeting permethrin-resistant *Aedes* and *Culex* mosquitoes, or other difficult to control species of mosquitoes, use the mid to high label rate. ReMoa Tri can not exceed the maximum rates of active ingredient per air column acre listed above.

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ReMoa Diluent & Mixing

ReMoa Tri is a "Ready-to-Use" product and does not require dilution. However, when applications do require dilution, ReMoa Tri can only be diluted with manufacturer-provided diluent (ReMoa Diluent™) and CANNOT be diluted with water, mineral oil, or any other diluent.

For applications targeting pyrethroid resistant mosquito populations, ReMoa Tri should not be diluted more than a 1:1 ratio. On the dilution table provided above, dilutions at ratios of 1:0.5 and 1:1 should be used if dilution is required. A dilution ratio of 1:2 is effective if needed - but should only be used when targeting susceptible mosquito populations.

Mix ratios of 1:2.5, 1:3, or higher should not be used in any ReMoa Tri application.

Aerial Application

ReMoa Tri is applied at rates of 0.33 to 1.02 fluid ounces per acre by fixed wing or rotary aircraft equipped with suitable ULV application equipment. Appropriate spray systems include rotary atomizers, flat fan and high-pressure nozzles.

Do not apply by fixed wing aircraft at a height less than 100 feet above the ground or canopy, or by helicopter at a height less than 75 feet above the ground or canopy unless specifically approved by the state or tribe based on public health needs.

When making aerial application at an altitude of less than 100 feet, apply only when wind speed at altitude is greater than or equal to 5 mph. When making applications at an altitude of 100 feet or greater, apply only when wind speed at altitude is greater than or equal to 3 mph.

For more details on tables to calculate aerial flow rates according to application rate, swath, and speed, please refer to the Aerial Application SOP.

Droplet Analysis

Non-thermal ground spray equipment must be adjusted so that the volume median diameter (VMD) is between 8-30 microns ($8\mu \leq Dv\ 0.5 \leq 30\mu$) and that 90% of the spray volume is contained in droplets smaller than 50 microns ($Dv\ 0.9 < 50\mu$). A laser-based measurement instrument, or a 'hot wire' based droplet analyzer such as KLD labs DC-IV system, must be used to adjust equipment to produce acceptable droplet size spectra. Application equipment must be tested at minimum annually to confirm that pressure at the nozzle and nozzle flow rate(s) are properly calibrated.