



OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

WASHINGTON, D.C. 20460

March 20, 2024

Maria Pilar-Herrero
Director, Regulatory
Valent Biosciences LLC
1910 Innovation Way, Suite 100
Libertyville, IL 60048

Subject: PRIA Label and CSF Amendment – Add aerial application, revise Basic CSF
Product Name: VBC-60748 Insecticide
EPA Registration Number: 73049-526
Application Date: January 12, 2023
Decision Number: 590542

Dear Maria Pilar-Herrero:

The amended label and Confidential Statement(s) of Formula (CSF) referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, are acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Please note that the record for this product currently contains the following CSF(s):

- Basic CSF dated 02/21/2024

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) lists examples of

statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6.

If you have any questions, please contact Rebecca Lasko at 202-565-2469 or at lasko.rebecca@epa.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "Scott Campbell", with a stylized, cursive script.

Scott Campbell, Acting Product Manager 03
Invertebrate and Vertebrate Branch I
Registration Division (7505T)
Office of Pesticide Programs

Enclosure

ACCEPTED

03/20/2024

Under the Federal Insecticide, Fungicide
and Rodenticide Act as amended, for the
pesticide registered under
EPA Reg. No. 73049-526

Fenpropathrin	Group	3A	Insecticide
Abamectin	Group	6	Insecticide

VBC-60748 Insecticide**[Alternate brand name: ReMoa Tri, TRIPLE ACTION INSECTICIDE]****SPACE SPRAY**

For non-crop ground and aerial applications. Triple Mode of Action Insecticide to provide operational control of mosquitoes. For non crop ground applications to provide operational control of both susceptible and permethrin-resistant *Aedes* and *Culex* mosquitoes

For use only by federal, state, tribal, or local government officials responsible for public health or vector control, or by persons certified in the appropriate category, or otherwise authorized by the state or tribal lead pesticide regulatory agency to perform adult mosquito control applications, or by persons under their direct supervision, or as allowed by state regulations for persons treating private property.

Active ingredients:

Fenpropathrin	4.00%
Abamectin	1.50%
Octanoic acid	0.33%
Nonanoic acid	0.33%
Decanoic acid	0.33%
Other ingredients	93.51%
Total	100.00%

Contains – 0.3 lbs of Fenpropathrin, 0.11 lbs of Abamectin and 0.08 lbs of Octanoic Acid /Nonanoic Acid/Decanoic Acid per gallon

EPA Registration Number: 73049-526

EPA Est. No.

Registrant: Valent BioSciences LLC
1910 Innovation Way, Suite 100
Libertyville, IL 60048

KEEP OUT OF REACH OF CHILDREN**CAUTION**

FIRST AID	
If swallowed	<ul style="list-style-type: none">• Call a poison control center or doctor for treatment advice.• Have person sip a glass of water if able to swallow.• Do not induce vomiting unless told to do so by a poison control center or doctor.• Do not give anything to an unconscious person

If in eyes	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. • Call a poison control center or doctor for immediate treatment advice.
	Have the product container or label with you when calling a poison control center or doctor, or going for treatment
HOT LINE NUMBER	
Have the product container label with you when calling a poison control center or doctor or going for treatment. For emergency medical treatment and or transportation emergency information contact 1-877-315-9819 or contact the National Pesticides Information Center (NPIC) at 1-800-858-7378, Monday through Friday, 8 AM to 12 PM PST, or at http://npic.orst.edu). For general information about this product, call 1-800-323-9597.	

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Harmful if swallowed. Causes moderate eye irritation. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Wear long-sleeved shirt and long pants, socks and shoes. Avoid contact with eyes, skin, or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

Physical or Chemical Hazards

Combustible. Do not use or store near heat or open flame.

Personal Protective Equipment (PPE)

Mixers, loaders, applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks
- Gloves

User Safety Requirements

Follow manufacturer's instructions for cleaning / maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

User Safety Recommendations

- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Environmental Hazards

This product is extremely toxic to fresh water and estuarine fish and invertebrates. Runoff from treated areas into a body of water may be hazardous to fish and aquatic invertebrates.

This pesticide is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow drift when bees are foraging the treatment area, except when applications are made to prevent or control a threat to public and / or animal health determined by a state, tribal or local health or vector control agency on the basis of documented evidence of disease causing agents in vector mosquitoes, or the occurrence of mosquito-borne disease in animal or human populations, or if specifically approved by the state or tribe during a natural disaster recovery effort.

DIRECTIONS FOR USE **For Outdoor Use Only**

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Before making the first application in a season, consult with the state or tribal agency with primary responsibility for pesticide regulation to determine if other regulatory requirements exist.

Mandatory Spray Drift Management

Ultra Low Volume Applications

- Apply when ground wind speeds are equal to or greater than 1 mph.
- All types of applications should be conducted when temperatures at ground level are at or above 50°F.

For Ground Applications:

- Create an optimum swath when possible. An optimum swath width can be achieved when VBC-60748 Insecticide is applied from a truck that is being driven perpendicular to the wind direction. Direct the spray head of equipment to ensure even distribution of the spray cloud throughout the area.

- **FOR BEST RESULTS** treat when mosquitoes or insects are most active and weather conditions are conducive to keeping the spray cloud in the air column close to the ground.

- An inversion of air temperatures and a light breeze is preferable. Application during the cooler hours of the night or early morning is recommended.

For Aerial Applications:

- Do not apply by fixed wing aircraft at a nozzle height less than 100 feet (30.5 m) above ground or canopy, or by helicopter at a height less than 75 feet (22.9 m) above the ground or canopy.

- For use only by federal, state, tribal or local government officials responsible for public health or vector control or by persons certified in the appropriate category or otherwise authorized by the state or tribal lead pesticide regulatory agency to perform adult mosquito control applications, or by persons under their supervision, or as allowed by state regulations for persons treating private property.

- This pesticide is extremely toxic to aquatic organisms. Runoff from treated areas or deposition of spray droplets into a body of water may be hazardous to aquatic organisms.

- Do not apply over bodies of water (lakes, rivers, permanent streams, natural ponds, commercial fish ponds, swamps, marshes or estuaries), except when necessary to target areas where adult mosquitoes are present, and weather conditions will facilitate movement of applied material beyond the body of water to minimize incidental deposition into the water body. Do not contaminate bodies of water when disposing of equipment rinsate or wash waters.

- Before making the first application in a season, it is advisable to consult with the state or tribal agency with primary responsibility for pesticide regulation to determine if other regulatory requirements exist.

RESISTANCE MANAGEMENT

Please note that VBC-60748 Insecticide (from now on referred to as VBC-60748) contains both a Group 3A and Group 6 insecticides. Any insect population may contain individuals naturally resistant to VBC-60748 and other Group 3A and Group 6 insecticides. The resistant individuals may dominate the insect population if these insecticides are used repeatedly in the same fields. Hence appropriate resistance-management strategies should be followed.

To delay insecticide resistance, take the following steps:

Avoid application of more than 30 applications and consecutive sprays of VBC-60748 or other insecticides in the same group in a year.

Adopt an integrated pest management program for insecticide use that includes scouting, uses historical information related to pesticide use, record keeping, and which considers cultural, biological and other chemical control practices.

Monitor after application for unexpected target pest survival. If the level of survival suggests the presence of resistance, consult with your local university specialist or certified pest control advisor.

Note: When applications require dilution, VBC-60748 can only be diluted with manufacturer provided diluent. VBC-60748 cannot be diluted with water or any other diluent.

Use VBC-60748 for control of mosquitoes in residential areas, industrial areas, urban areas (utility tunnels, sewers, storm drains and catch basins, pipe chases, basements, underground passages, parking decks, crawl spaces, or uninhabited buildings), parks, campsites, woodlands, athletic fields, golf courses, playgrounds, recreational and overgrown waste areas, roadsides, swamps, marshes, tidal areas, corrals, feed lots, swine lots, poultry ranges, zoos, animal quarters, barns, dumps, junkyards, tire dumps, and other areas where adult mosquitoes may be found. For best results, apply when insects are most active and meteorological conditions are conducive to keeping the spray cloud in the air column close to the ground. An inversion of air temperatures and a light breeze is preferable. Apply during the cooler hours of the night or early morning. Apply when wind speed is equal to or greater than 1 mph.

Ground ULV Application

Application Instructions

VBC-60748 can be applied as an Ultra-Low Volume (ULV), or non-thermal aerosol spray (cold fog) in mosquito adulticiding programs involving outdoor residential, urban, industrial, and recreational areas, to control adult mosquitoes. Refer to the dilution table on this label for flow rate calculations for diluted end use formulations of VBC-60748.

Wide Area and Space Spray Application for Mosquito Control Over Non-Crop Areas

Do not apply more than 1.018 fl. oz of VBC-60748 per acre in any two-day period. Do not make more than 30 applications per site per year (For a maximum rate 30.54 fl. oz of VBC-60748 per acre per year). More frequent applications per site may be made to prevent or control a threat to public and/or animal health determined by a state, tribal or local health or vector control agency on the basis of documented evidence of disease-causing agents in vector mosquitoes or the occurrence of mosquito-borne disease in animal or human populations, or if specifically approved by the state or tribe during a natural disaster recovery effort.

Apply the product through a **ULV Fogger** (also known as ULV cold fogger), which is a piece of equipment designed to disperse pesticide chemicals in the air as a mist or fog.

Droplet Size Determination for Ground Application Equipment

Spray equipment must be adjusted so that the volume median diameter (VMD) is between 8-30 microns ($8\mu \leq Dv0.5 \leq 30\mu$) and that 90% of the spray volume is contained in droplets smaller than 50 microns ($Dv 0.9 < 50 \mu\text{m}$). 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 least annually to confirm that pressure at the nozzle and nozzle flow rate(s) are properly calibrated.

Create an optimum swath when possible. An optimum swath width can be achieved when VBC-60748 is applied from a truck that is being driven perpendicular to the wind direction. Direct the spray head of equipment to ensure even distribution of the spray cloud throughout the area.

- FOR BEST RESULTS treat when mosquitoes or insects are most active and weather conditions are conducive to keeping the spray cloud in the air column close to the ground.
- An inversion of air temperatures and a light breeze is preferable. Application during the cooler hours of the night or early morning is recommended.

To control mosquitoes and other listed insects, apply VBC-60748 at a flow rate of 2.02 to 6.08 fluid ounces per minute at an average vehicle speed of 10 mph using a swath width of 300 feet for acreage calculations (see table below). For best results, apply when mosquitoes are most active and meteorological conditions are conducive to keeping the spray cloud close to the ground. Do not apply in calm air conditions. Apply only when ground wind speed is greater than or equal to 1 mph. Conduct all types of applications at temperatures above 50 °F. For ground applications, When targeting permethrin-resistant *Aedes* and *Culex* mosquitoes use a flow rate of 4.03 fluid ounces per minute at an average vehicle speed of 10 mph. If a different vehicle speed is used, adjust rate accordingly. These rates are equivalent to 0.00080/0.00030/0.00020 to 0.00239/0.00089/0.0002/0.0002/0.0002 pounds of Fenpropathrin/Abamectin/ Octanoic Acid/Nonanoic Acid/Decanoic Acid respectively per air column acre. Vary flow rate according to vegetation density and mosquito population. Use higher flow rate in heavy vegetation or when populations are high. VBC-60748 may also be diluted with the manufacturer's provided diluent (water or mineral oil should not be used as a diluent for VBC-60748) and applied by ground ULV equipment. Do not exceed 0.00239/0.00089/0.0002/0.0002/0.0002 pounds of Fenpropathrin/Abamectin/ Octanoic Acid/Nonanoic Acid/Decanoic Acid respectively per air column acre. Refer to the dilution tables on this label for flow rate calculations for diluted end-use formulations of VBC-60748. Use the following tables to calculate application rates: Table 1

**Table 1. Flow Rate Based on a 300-Foot Swath Width for Ground Application
(Fluid Ounces Per Minute)**

Application Rates (Pounds of Fenpropathrin A.I. per Air Column Acre)	Application Rates (Pounds of Abamectin A.I. per Air Column Acre)	Application Rates (Pounds of Octanoic Acid/ Nonanoic Acid/ Decanoic Acid A.I. per Air Column Acre)	VBC-60748 (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. VBC-60748 cannot exceed the maximum rates of active ingredient per air column acre listed above.

Aerial Application

VBC-60748 can be applied via aerial application to control susceptible mosquitoes. Refer to the dilution table on this label for flow rate calculations for diluted end use formulations of VBC-60748.

VBC-60748 may be applied at rates of 0.34 to 1.02 fluid ounces of VBC-60748 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 impaction nozzles characterized to achieve the droplet characteristics specified in this label. VBC-60748 may also be diluted with the manufacturer's provided diluent (water or mineral oil should not be used as a diluent for VBC-60748) and applied by aerial ULV equipment so long as 1.02 fluid ounces (0.00239/0.00089/0.0002/0.0002/0.0002 pounds of Fenpropathrin/Abamectin/ Octanoic Acid/Nonanoic Acid/Decanoic Acid) per acre of VBC-60748 is not exceeded. 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. When making application at an altitude of

100 feet or greater, apply only when wind speed at altitude is greater than or equal to 3 mph.

Droplet Size Determination for Aerial Application Equipment

Spray equipment must be adjusted so that the volume median diameter (VMD) is less than 60 microns ($D_v 0.5 < 60 \mu\text{m}$) and that 90% of the spray is contained in droplets smaller than 115 microns ($D_v 0.9 < 115 \mu\text{m}$). The effects of flight speed and, for non-rotary nozzles, nozzle angle on the droplet size spectrum must be considered. Directions from the equipment manufacturer or vendor, pesticide registrant or a test facility using a wind tunnel, laser-based measurement instrument or an appropriate method for droplet size estimation using glass/acrylic slides on rotary impingers must be used to adjust equipment to produce acceptable droplet size spectra. Application equipment must be tested at least annually to confirm that pressure at the nozzle and nozzle flow rate(s) are properly calibrated.

Table 2. Flow Rate Based on a 600-Foot Swath Width for Aerial Application
(Fluid Ounces Per Minute)

	Application Rate (lbs. AI per Acre)			Application Rate (oz./ac)					
	Fenpropathrin	Abamectin	Octanoic Acid Nonanoic Acid Decanoic Acid	VBC-60748	Speed (mph)	Undiluted	Diluted (1:0.5)	Diluted (1:1)	Diluted (1:2)
Low Rate	0.0008	0.0003	0.0002	0.34	60	24.73	37.09	49.45	74.18
					70	28.85	43.27	57.7	86.55
					80	32.97	49.45	65.94	98.91
					90	37.09	55.64	74.18	111.27
Mid-Rate	0.00157	0.00059	0.00039	0.67	60	48	73.09	97.45	146.18
					70	56	85.27	113.7	170.55
					80	64	97.45	129.94	194.91
					90	72	109.64	146.18	219.27
High Rate	0.00239	0.00089	0.0006	1.018	60	74.04	111.05	148.07	222.11
					70	86.38	129.56	173.36	259.13
					80	98.72	148.07	197.43	296.15
					90	111.05	166.58	222.11	333.16

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

Pesticide Storage: Store in a cool, dry place.

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on-site or at an approved waste disposal facility.

Container Disposal: [For 2.5-gallon Jugs]: Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with mineral oil and recap. Shake for 10 seconds. Pour rinsate into application equipment or a rinse tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

[For refillable drums & totes]: Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into rinsate collection system. Repeat this rinsing procedure two more times. Offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

NOTICE TO USER

Warranty and Disclaimer Statement:

To the extent consistent with applicable law, seller makes no warranty, express or implied, of merchantability, fitness or otherwise concerning the use of this product other than as indicated on the label. To the extent consistent with applicable law, user assumes all risks of use, storage or handling not in strict accordance with accompanying directions.

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