

ReMoa Tri

SDS# VBC-0586 Revision 8

ISSUED 02/16/2023

[Classification according to OSHA; 29 CFR § 1910.1200, (3/12/2012)]

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY**1.1 Product Identifier****MATERIAL NAME:** ReMoa Tri, Triple Action Insecticide Space Spray**Synonyms:** VBC-60748 Insecticide**EPA Reg No.:** 73049-526**Code Number:** N/A**List Number:** N/A**Chemical Family:** Pyrethroid and macrocyclic lactone**Substance Registration Number(s)[REACH]:** N/A**1.2 Relevant Identified Uses and Uses Advised Against****Identified Uses:** Mosquito spray over urban areas**Uses Advised Against:** .**1.3 Details of the supplier of the Safety Data Sheet****Supplied By:** Valent BioSciences LLC
1910 Innovation Way, Suite 100
Libertyville, Illinois 60048**1.4 EMERGENCY TELEPHONE NUMBERS****Emergency Health or Spill:**

VBC Product Information: (800)323-9597

Health Emergency (24 hours): 800-892-0099

Transportation (24 hr): CHEMTREC: 800-424-9300

2. HAZARDS IDENTIFICATION**2.1 Classification of the Substance or Mixture**

Combustible Liquid (Category 4)

Acute toxicity - Oral (Category 4)

Specific target organ toxicity - single exposure - (Category 3)

Specific target organ toxicity - repeat exposure (Nervous System) - (Category 2)

2.2 Labeling Elements**Symbol(s)**

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Signal Word

WARNING

Hazard Statement(s)

Harmful if swallowed

Causes damage to the nervous system

Causes damage to nervous system through prolonged or repeated exposure

Combustible liquid

Precautionary Statements:

Prevention

Wash hands and face thoroughly after handling.

Do not eat, drink or smoke when using this product.

Wear protective gloves and clothing.

Wear protective eyewear.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

Take precautionary measures against static discharge.

Avoid breathing dust, gas, mist, vapors or spray.

Response

In case of fire: Use water fog, carbon dioxide or dry chemical to extinguish.

If SWALLOWED: Call a poison control center or doctor.

Rinse mouth.

If EXPOSED: Call a poison control center or doctor.

Get medical advice/attention if you feel unwell.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other Hazards

None known

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Ingredients	Percent
39515-41-8	Fenpropathrin	4.0
71751-41-2	Abamectin	1.5
	Other Ingredients	94.5

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4. FIRST AID MEASURES

4.1 Description of First Aid Measures

GENERAL: In all cases of doubt, seek medical attention.

INHALATION: Using proper respiratory protection, immediately remove victim to fresh air and keep at rest in a position comfortable for breathing. Provide symptomatic/supportive care as necessary. Administer artificial respiration if breathing is stopped.

SKIN: Remove from source of exposure. Take off contaminated clothing. Flush with copious amounts of water. If irritation persists or signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary.

EYES: Rinse with water as soon as possible and rinse cautiously for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention. Provide symptomatic /supportive care as necessary.

INGESTION: Rinse mouth. Do NOT induce vomiting. Do not give victim anything to drink if he/she is unconscious. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get immediate medical advice/attention.

4.2 Most important Symptoms and Effects, both Acute and Delayed

Acute

Tremors

Delayed

Tremors

NOTE TO PHYSICIAN:

- Early signs of intoxication include mydriasis (dilated pupils), ataxia (unsteadiness), and muscle tremors. Toxicity follows accidental ingestion of Abamectin and can be minimized by promptly administering activated charcoal.

4.3 Indication of any Immediate Medical Attention and Special Treatment Needed

Treat symptomatically and supportively

5. FIRE FIGHTING PROCEDURES

5.1 Extinguisher Media

Suitable Extinguisher Media

CAUTION: Carbon dioxide will displace air in confined spaces and may create an oxygen deficient atmosphere. Use water fog, carbon dioxide or dry chemical.

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Unsuitable Extinguisher Media

DO NOT use a solid stream of water directly on the fire as the water may spread the fire to a larger area.

5.2 Specific Hazards Arising from the Chemical

COMBUSTIBLE LIQUID. Vapors are heavier than air. Vapors may settle in low or confined areas, or travel long distances along the ground or surface to an ignition source where they may ignite, flashback, or explode. Keep away from heat, sparks, flames or other sources of ignition (e.g., static electricity, pilot lights, mechanical/electrical equipment). Contact with strong oxidizing agents may cause fire. Rags soaked in solvent can present a fire hazard and should be stored in UL listed or Factory Mutual approved, covered containers. Improperly stored rags, under certain conditions can lead to spontaneous combustion.

Thermal decomposition products

Carbon oxides, nitrogen oxides

5.3 Advice to Firefighters

Protective Equipment and precautions for firefighters

Evacuate area of unprotected personnel. Wear protective clothing including NIOSH-approved self-contained breathing apparatus. Remain upwind of fire to avoid hazardous vapors and decomposition products. Use water spray to cool fire-exposed containers and disperse vapors. CAUTION: Spilled material is slippery.

Fire & Explosive hazard

Inhalation, ingestion or contact with vapors or substance may cause irritation. Containers may explode when heated. Runoff and fire-control water may pollute waters.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

COMBUSTIBLE LIQUID. Eliminate all sources of ignition. Evacuate unprotected personnel from area. Maintain adequate ventilation. Follow personal protective equipment recommendations found in Section 8. Never exceed any occupational exposure limit.

6.2 Environmental Precautions

Keep out of drains, sewers, ditches and waterways. Avoid runoff to waterways and sewers. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

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6.3 Methods and Materials for Containment and Cleaning Up

Contain spill, place into drums for proper disposal. Soak up residue with non-flammable absorbent material. DO NOT use sawdust or other cellulose-type material. Place in non-leaking containers for immediate disposal. Flush remaining area with water to remove trace residue and dispose of properly. Avoid direct discharge to sewers and surface waters. Notify authorities if entry occurs.

6.4 Reference to Other Sections

See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations. See Section 13 for Disposal Considerations.

US Regulations may require reporting spills of hazardous materials: See Section 15: Regulatory Information for details on reportable quantities, if any.

7. HANDLING AND STORAGE

7.1 Precautions for Safe handling

Avoid contact with eyes, skin, and clothing. Use with adequate ventilation. Do not swallow. Avoid breathing vapors, mists, or dust. Do not eat, drink, or smoke in work area. Wash thoroughly after handling. Empty containers retain product residue (vapor, dust, or liquid) and can be dangerous. DO NOT pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other source of ignition. They may explode and cause injury or death. Always open containers slowly to allow any excess pressure to vent. Use non-sparking tools and equipment. Properly dispose of any contaminated rags or cleaning materials in order to prevent fires.

7.2 Conditions for Safe Storage

COMBUSTIBLE LIQUID. Store in a cool, well ventilated area away from all sources of ignition and out of direct sunlight. Store in a dry location away from heat. Keep away from incompatible materials. Keep containers tightly closed. Do not store in unlabeled or mislabeled containers. Static electricity may accumulate and create a fire hazard. Ground fixed equipment. Bond and ground transfer containers and equipment. Protect containers against physical damage.

Incompatibilities

Avoid contact with heat, sparks, electric arcs, other hot surfaces, and open flames. Avoid other ignition sources.

7.3 Specific End Use(s)

Experimental Use Only by qualified researchers.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters

Component Exposure Limits (Note: Exposure limits are not additive)

Component	CAS-No.	Value	Basis
BHT	128-37-0	TWA 10 mg/m ³	OSHA, ACGIH (TLV)

8.2 Exposure Controls

Appropriate Engineering Controls

Provide general ventilation. Where adequate general ventilation is unavailable use process enclosure, local exhaust ventilation, or other engineering controls.

SKIN PROTECTION: Wear protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. Wear PVC, Viton, Nitrile gloves (AS2161).

EYE PROTECTION: Use chemical safety goggles and/or a full face shield where splashing is possible.

RESPIRATORY PROTECTION: Wear a dust/mist respirator if needed.

Specific Hygiene Measures: Avoid contact with skin and eyes. Do not eat, drink or smoke during work. Wash thoroughly after handling and before eating or drinking. Contaminated work clothing should not be allowed out of the workplace.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Liquid	Odor:	Not Determined
pH:	4.8 - 5.2	Color:	Clear Light Yellow to Tan
Melting Point:	Not Determined	Boiling Point:	Not Determined
Specific Gravity:	Not Determined	Solubility (H ₂ O):	Not Determined
Density:	.916 g/cm ³ at 20.00°C	Evaporation Rate:	Not Determined
Octanol/H ₂ O Coeff:	Not Determined	Decomposition Temp.:	Not Determined
Auto Ignition:	245°C	Flammability Class:	Not Determined
Flash Point:	62°C – 65°C	LFL:	Not Determined
Vapor Density:	Not Determined	UFL:	Not Determined
VOC:	Not Determined	Vapor Pressure:	Not Determined
Kinematic Viscosity:	Not Determined	Oxidation or Reduction Action	No significant oxidizing or reducing action or chemical incompatibility

10. CHEMICAL STABILITY AND REACTIVITY

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10.1 Reactivity

Stable under ordinary conditions of use and storage.

10.2 Chemical Stability

Stable under ordinary conditions of use and storage.

10.3 Possibility of Hazardous Reactions

Does not undergo hazardous polymerization.

10.4 Conditions to Avoid

Ignition sources (open flame, spark, heat, hot surface, static discharge, etc.), incompatibles, heating accumulation of static electricity

10.5 Incompatible Materials

Strong oxidizers, strong bases and strong acids.

10.6 Hazardous Decomposition Products

Carbon monoxide, carbon dioxide.

11. TOXICOLOGICAL INFORMATION**11.1 Information on Toxicological Effects****Product (and or TGAI) Toxicology****Acute Effects**

Oral: LD₅₀ 1030 mg/kg

Dermal: LD₅₀ >5000 mg/kg

Inhalation: LC₅₀ > 5.57 mg/L in male and female rats.

Eye Irritation: Minimally irritating; cleared by 48hrs

Skin Irritation: Slightly irritating; cleared by day 7

Skin Sensitization: Not a contact sensitizer

12. ECOLOGICAL INFORMATION**12.1 Ecotoxicity**

This product has not been tested for eco-toxicological effects. Treat with extreme caution and do not allow into waterways or lakes.

12.2 Persistence and Degradability

Environmental persistence and fate not evaluated.

12.3 Bioaccumulation potential

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No data available

12.4 Mobility in Soil

No data available

12.5 Results of PBT and vPvB assessment

Assessments not performed

12.6 Other adverse effects

None known

13. DISPOSAL CONSIDERATIONS**13.1 Waste Disposal Methods**

Dispose of product in accordance with federal, state, provincial, and local regulations. Prevent contamination of environment by wastes.

US EPA WASTE NUMBER & DESCRIPTIONS:

There is no applicable EPA waste number. This product, if discarded, is not expected to be a characteristic or listed hazardous waste.

14. TRANSPORTATION INFORMATION

DOT STATUS: Combustible Liquid N.O.S. (Ethyl Lactate Solution) NA1993

UN PROPER SHIPPING NAME: Combustible Liquid N.O.S. (Ethyl Lactate Solution) NA1993

REMARKS: N/A

IATA/ICAO STATUS: Not-Regulated

PROPER SHIPPING NAME: N/A

REMARKS: N/A

IMDG STATUS: Not-Regulated

PROPER SHIPPING NAME: N/A

REMARKS: N/A

15. REGULATORY INFORMATION**15.1 Safety, Health and Environmental Regulations / Specific Legislation**

TSCA STATUS: Not Listed

CERCLA STATUS: Not regulated as hazardous

SARA STATUS: Acute: No Chronic: No Fire: No CDT: No

RCRA STATUS: Not regulated as hazardous

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Consult applicable national, state provincial or local laws to determine regulations, laws or ordinances which may be applicable.

State Right-To-Know:

Massachusetts Right To Know Components

2,6-Di-Tert-Butyl-P-Cresol CAS-No.:128-37-0

Pennsylvania Right To Know Components

2,6-Di-Tert-Butyl-P-Cresol CAS-No.: 128-37-0

Abamectin CAS-No.: 71751-41-2

Ethyl L-lactate CAS No.: 687-47-8

New Jersey Right To Know Components

2,6-Di-Tert-Butyl-P-Cresol CAS-No.: 128-37-0

Abamectin CAS-No.: 71751-41-2

Ethyl L-lactate CAS No.: 687-47-8

15.2 FIFRA – Pesticide Labeling

EPA : CAUTION

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

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.

Environmental Hazards

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.

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.

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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.

16. OTHER INFORMATION

NFPA Hazard Ratings

Health: N/D
Flammability: Combustible
Instability: N/D

HMIS Hazard Ratings

Health: N/D
Flammability: N/D
Instability: N/D

0 = minimal
1 = slight
2 = moderate
3 = serious
4 = Extreme



SAFETY DATA SHEET

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REASON FOR ISSUE: Section 11 was updated.

APPROVAL DATE: 08/12/2022

SUPERSEDES DATE: 05/17/2022

LEGEND: N/A = Not Applicable

N/D = Not Determined

N/L = Not Listed

L = Listed

C = Ceiling

S = Short-term

(R) = Registered Trademark of Valent BioSciences LLC

(TM) = Registered Trademark of Valent BioSciences LLC

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This Safety Data Sheet (SDS) may provide more information than the product label but does not replace or modify the product labeling (attached to and accompanying the product container). The product SDS and the product label both provide consistent and important health, safety, and environmental information as required by the Occupational Health and Safety Act (29 CFR 1910.1200, "Hazcom"). This requirement covers employers, employees, emergency responders, users and others handling the product. All necessary hazard classification and appropriate precautionary, use, storage, and disposal information is set forth on the labeling and the SDS.



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