

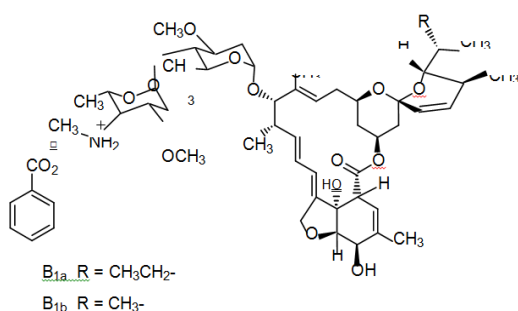
PROVE 1.9EC™
MATERIAL SAFETY DATA SHEET

SECTION 1 Chemical product and Company identification

Product Name: Prove 1.9EC™ (Emamectin benzoate)

Chemical name: (4''R)-5-O-demethyl-4''-deoxy-4''-(methylamino)avermectin A1a(4''R)-5-O-demethyl-25-de(1-methylpropyl)-4''-deoxy-4''-(methylamino)-25-(1-methyl ethyl)avermectin A1a (9:1)-(6-chlorobenzoxazol-2-xyloxy) phenoxy]propionic acid

Structural Formula:



Product Use: Commercial Insecticide

Supplier: SINERIA HOLLAND BV

Randwycksingel 20-A015, 6229 EE Maastricht The Netherlands

www.sineria.com

SECTION 2 Composition/Information on Ingredients

<u>Product Name</u>	<u>Concentration</u>	<u>CAS RN</u>
Emamectin Benzoate	1.9%	119791-41-2

SECTION 3 Hazards Identification

Emergency overview: Causes eye and skin irritation. Inhalation can cause irritation to the respiratory tract and can result in chemical pneumonitis if aspirated. Ingestion can result in central nervous system effects such as muscle tremors, decreased activity, ataxia (unsteadiness or incoordination), and dilated pupils (mydriasis).

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SECTION 4 First Aid Measures

Ingestion: If swallowed, immediately call a poison control center or doctor for treatment advice. Do not induce vomiting unless told to do so by a poison control center or doctor. Have a person sip a glass of water if able to swallow. Do not induce vomiting or give anything by mouth to an unconscious person.

Inhalation: Move person to fresh air. If person is not breathing, call an ambulance, and then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

Eye contact: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Skin contact: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

Note: Have the product container, label or Material Safety Data Sheet with you when calling a poison control center or doctor, or going for treatment.

SECTION 5 Fire Fighting Measures

Suitable extinguish media: Dry chemical, carbon dioxide, foam and water.

Unusual Fire, Explosion and Reactivity Hazards: Combustible liquid. Heavy vapors can flow along surfaces to distant ignition sources and flash back. During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

In Case of Fire: Use appropriate extinguishing media for combustibles in the area. Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion. Prevent use of contaminated buildings, area, and equipment until decontaminated. Water runoff can cause environmental damage. If water is used to fight fire, dike and collect runoff.

SECTION 6 Accidental release measures

General and disposal: Use proper protective equipment to minimize personal exposure. Take all necessary action to prevent and to remedy the effects of the spill. Ensure that the disposal is in compliance with regulations.

Personal Precautions: Avoid contact with skin and eyes. Do not breathe in fumes. Wear full protective clothing.



In Case of Spill or Leak: Control the spill at its source. Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water. Cover entire spill with absorbing material and place into compatible disposal container. Scrub area hard using water and detergent. Pick up wash liquid with additional absorbent and place into compatible disposal container. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposition.

SECTION 7 Handling and storage

Handling: Avoid contact with eyes or clothing. Do not use near heat or open fire.
Users Should: Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove personal protective equipment immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.
Storage: Store in a cool and dry place out of reach of children. Keep container tightly closed. Do not store or consume food, drink or tobacco in areas where they may become contaminated with this material.

SECTION 8 Exposure controls/Personal protection

Engineering Controls: In the Workplace, ensure that the ventilation is adequate. Keep containers closed when not in use. No special engineering controls are requirements. Product must be used outdoors.

Personal Precautions: Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

Eye contact: Where eye contact is likely, use chemical splash goggles. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Skin contact: Where contact is likely, wear chemical-resistant (such as nitrile or butyl) gloves, coveralls, socks and chemical-resistant footwear. For overhead exposure, wear chemical-resistant headgear.

Inhalation: A respirator is not normally required when handling this substance. Use effective engineering controls to comply with occupational exposure limits.

SECTION 9 Physical & Chemical properties

Appearance: Light yellow liquid

Odour: Characteristic

pH: 4-9

SECTION 10 Stability & Reactivity

Stability: Stable under normal condition

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Conditions to avoid: Heat, direct exposure to light

Hazardous Polymerization: Has not been reported

Hazardous Decomposition: May decompose at high temperatures forming toxic gases

Materials to avoid: Strong oxidizers

SECTION 11 Toxicological Information

Acute Toxicity /Irritation Studies

Ingestion: Acute oral LD₅₀ 2.950 mg/kg (rats)

Dermal: Acute dermal LD₅₀ >2.000 mg/kg (rats)

Inhalation: Acute inhalation LC₅₀ > 9.6 mg/l air (4 h, rats)

Eye Contact: Severely Irritating (Rabbit)

Skin Contact: Slightly irritating (Rabbit)

SECTION 12 Ecological Information

- For Active Ingredient

Birds

- Acute oral LD₅₀ for Mallard Ducks 46 mg/kg, for Bobwhite Quail 264 mg/kg.
- Dietary LC₅₀ (8d) for Mallard Ducks 570 ppm, for Bobwhite Quail 1318 ppm.

Aquatic Organisms

- LC₅₀ (96 h) for Rainbow Trout 174 µg/l, for Sheepshead Minnow 1430 µg/l
- Daphnia: LC₅₀ 0.99 µg/l

Bees: Toxic to bees.

Worms: LC₅₀ >1000 mg/kg dry soil.

SECTION 13 Disposal Considerations

Do not contaminate water, food, or feed by disposal. Empty containers should be triple rinsed into the spray tank during operation. Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill or incinerating, or if allowed, by burning. If burned, stay out of smoke.

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SECTION 14 Transport Information

UN Number: UN 3082

Hazard Class: Class 9

Packing Group: PG III

SECTION 15 Regulatory Information

DOT Classification: Not regulated.

B/L Freight Classification: Insecticides, N.O.I. O/T poison

SECTION 16 Other Information

The information contained in the Material Safety Data Sheet is correct to the best of our knowledge at the date of issue. It is intended as a guide for the safe use, handling, disposal, storage and transportation and is not intended as a warranty or as a specification. The information relates only to the product specified and may not be suitable for use with other materials or in processes other than those specifically described herein.

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