

**GROUP 11 INSECTICIDE**

**MY-CROBE II xt**

**Biological Larvicide**

**SUSPENSION**

**LIVE ORGANISM  
COMMERCIAL**

**SKIN IRRITANT**

**CAUTION EYE IRRITANT**

**POTENTIAL SENSITIZER**

**READ THE LABEL BEFORE USING**

**ACTIVE INGREDIENT:** *Bacillus thuringiensis* subspecies *israelensis* serotype H-14, strain BMP-144, 1200 International Toxic Units (ITU) per milligram (1.28 billion ITU/kg)

**REGISTRATION NO 34627  
PEST CONTROL PRODUCTS ACT**

**Net Contents: 5.00 Litres**

Lot N<sup>o</sup>:

Date of manufacture:

PROVENTUS BIOSCIENCE INC.  
4455 Griffith, Saint-Laurent (QC) H4T 2A2  
438-387-1117

## DIRECTION FOR USE

MY-CROBE II xt Biological Larvicide is a selective and effective microbial insecticide for the control of mosquito larvae (wigglers). When the suspension is applied on the water surface, the active ingredient is released and becomes available for ingestion by mosquito larvae.

MY-CROBE II xt Biological Larvicide is for use solely where mosquito larvae are present. Do not apply to drinking water reservoirs and drinking receptacles. To detect the presence of wigglers (see picture), look closely for larvae moving in an “S” pattern at the surface of water.

Treat when the larvae are approximately 6 mm in length. In the spring, the first treatment can start 7-10 days after ice has completely melted from standing water. In areas with a very mild winter (no ice), treatments can start in early spring, as soon as 6 mm long wigglers are detected.

### Habitat

### Rate required for control

- Flood water, roadside ditches, irrigation ditches, pastures, woodland pools, snow melt pools.....**300- 600 ml / hectare**
- Tidal water, salt marshes, catch basins, storm water retention areas.....**600 – 1200 ml / hectare**
- Polluted water (sewage lagoons, etc.), water with moderate organic matter, and water with a high concentration of suspended solids.....**1200 – 2400 ml / hectare**

For each habitat, use the higher rates of the rate range when late-instar larvae predominate. Apply MY-CROBE II xt Biological Larvicide with conventional ground application equipment and dilute in sufficient water to provide thorough coverage of the target area (i.e. 10-1000 L of water / hectare). The amount of water needed will depend on the type of spray equipment and on the mosquito habitat. As little as 10 L water / hectare can be used when the habitat is open with light vegetative cover. With ultra low volume (ULV) equipment, 50-100 L water / hectare is commonly used. For high volume equipment, use 300-500 L water / hectare. If the vegetation cover is dense, use up to 1000 L water / hectare. To dilute the product, fill the mix tank with the appropriate volume of water and alginate before adding MY-CROBE II xt Biological Larvicide suspension. Maintain agitation during filling. Do not apply to water that runs onto another property.

Allow 24 hours for maximum effect on larvae. If necessary, reapply at 7-10 days intervals if wigglers are detected. It may be necessary to repeat application until the end of summer. A repeat application may also be necessary after the major rainfall (2 cm of the rain or more).

**DO NOT APPLY BY AIR.**

Consult provincial / territorial pesticide regulatory officials for required authorization.

**DO NOT allow spray mixture to stand in the tank for more than 18 hours.**

**DO NOT apply by any type of irrigation system.**

**PRECAUTIONS: PREVENT ACCESS BY UNAUTHORIZED PERSONNEL. MAY CAUSE SENSITIZATION. CAUTION EYE IRRITANT.**

Avoid contact with skin, eyes or clothing. Avoid inhaling/breathing dusts. Wear a long-sleeved shirt, long pants, protective eyewear (goggles) waterproof gloves, socks and shoes, and a NIOSH-approved particulate filtering facepiece respirator with any N-, R-, or P- filter for biological products when handling, mixing/loading or applying the product and during all clean-up/repair activities. Applicators may remove gloves, eye goggles and respirators if the design and delivery of the application apparatus reduces exposure to a negligible level (e.g. backpack sprayer with application wands that apply product directly over water surface). Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

DO NOT apply directly to treated, finished drinking water reservoirs or drinking water receptacles when the water is intended for human consumption.

**FIRST AID:**

If swallowed: Call a poison control centre or doctor immediately 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 centre or doctor. Do not give anything by mouth to an unconscious person.

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

If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice

If in eyes: 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 eye. Call a poison control centre or doctor for treatment advice.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

**TOXICOLOGICAL INFORMATION:** treat symptomatically.

**STORAGE AND SHELF LIFE:**

MY-CROBE II xt Biological Larvicide should be used within 24 months of the date of manufacture when stored in the original container at temperatures between 0 and 25°C.

**DISPOSAL:**

Completely empty the bag into the application equipment. Follow provincial instruction for any required additional cleaning of the container prior to its disposal.. Make the empty container unsuitable for further use. Dispose of the container in accordance with provincial requirements. For information on the disposal of unused, unwanted product, contact the manufacturer or provincial regulatory agency . Contact the manufacturer or provincial regulatory agency in case of a spill, and for clean-up of spills.

**NOTICE TO USER:**

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *pest control product act* to use this product in a way that is inconsistent with the directions on the label.

**RESISTANCE-MANAGEMENT RECOMMENDATIONS:**

For resistance management, please note that MY-CROBE II xt Biological Larvicide contains a Group 11 insecticide. Any insect population may contain individuals naturally resistant to MY-CROBE II xt Biological Larvicide and other Group 11 insecticides. The resistant individuals may dominate the insect population if this group of insecticides is used repeatedly in the same site. Other resistance mechanisms that are not linked to site of action but specific for individual chemicals, such as enhanced metabolism, may also exist. The following appropriate resistance management strategies should be followed to delay insecticide resistance:

- Where possible, rotate the use of MY-CROBE II xt Biological Larvicide and others Group 11 insecticides with different groups that control the same pests in a site.
- Insecticide use should be based on an Integrated Pest Management program that includes scouting, record keeping, and considers cultural, biological and other chemical control practices.
- Monitor treated pest populations for resistance development.
- Contact your local extension specialist for any additional pesticide resistance management and/or integrated pest management recommendation for specific site and pest problems in your area.
- For further information or to report suspected resistance, contact PROVENTUS BIOSCIENCE INC. at 4455 Griffith, Saint-Laurent (QC) H4T 2A2, Telephone: 438-387-1117.