

AquaBac[®] xt

BioLarvicide • Biological Larvicide Aqueous Suspension

A microbial insecticide effective against mosquitoes in a variety of habitats.

Quickly controls mosquito larvae within 24 hours.

Kills developing mosquito larvae before they become breeding, biting adults including those which may transmit West Nile Virus, encephalitis and heartworm disease to dogs and cats.

A microbial insecticide effective against mosquitoes, blackflies, nuisance flies (*Psychoda* spp. and *Chironomus* spp.) and nuisance aquatic midges (*Chironomine*) in a variety of habitats.

ACTIVE INGREDIENT:

Bacillus thuringiensis subspecies *israelensis* Strain BMP 144 solids,

spores and insecticidal toxins* 8.00%

OTHER INGREDIENTS: 92.00%

TOTAL: 100.00%

*Equivalent to 1,200 International Toxic Units (ITU)/mg (4.84 Billion ITU/gallon or 1.2 Billion ITU/liter).

Note: The percent active ingredient does not indicate product performance and potency measurements are not federally standardized.

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

FIRST AID

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 center or doctor for further treatment advice.

If on skin or clothing

- 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.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-214-7753 for emergency medical treatment information.

See back panel for additional precautionary statements and directions for use.

**EPA Reg. No. 62637-1
EPA Establishment No.**

**Net Contents:
Batch Code:**

MANUFACTURED FOR: Becker Microbial Products, Inc., a Clarke Company
675 Sidwell Court, Saint Charles, Illinois 60174, USA Tel: 1-800-323-5727

AL2075

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS - CAUTION: Harmful if inhaled or absorbed through the skin. Avoid breathing spray mist. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

PERSONAL PROTECTIVE EQUIPMENT (PPE): Applicators and other handlers must wear: long-sleeved shirt and long pants, waterproof gloves, shoes plus socks. Mixers/loaders and applicators must wear a dust/mist filtering respirator meeting NIOSH standards of at least N-95, R-95, or P-95. Repeated exposure to high concentrations of microbial proteins can cause allergic sensitization. Follow manufacturer's instructions for cleaning and maintaining PPE. If there are no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS: Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Users should 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: Do not contaminate water when disposing of equipment washwaters or rinsate. Do not apply to treated, finished drinking water reservoirs or drinking water receptacles when the water is intended for human consumption.

DIRECTIONS FOR USE

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

Do not apply this product through any type of irrigation system.

Apply AquaBac xt to any water sites **except** treated, finished drinking water reservoirs or drinking water receptacles when the water is intended for human consumption.

MOSQUITOES:

Habitat

Rate of Aquabac xt Required for Control¹

Flood water, roadside ditches, irrigation ditches, rice fields, pastures, woodland pools, snowmelt pools, standing ponds, standing pools, standing water containing mosquito larvae in fields growing crops such as, alfalfa, almonds, asparagus, corn, cotton, dates, grapes, peaches and walnuts	0.25-2.0 pts/A
Tidal water, salt marshes, catch basins, and storm water retention areas	0.50-2.0 pts/A
Polluted water (sewage lagoons, animal waste lagoons, etc.), water with moderate organic matter and water with a high concentration of suspended solids	1.0-2.0 pts/A

¹Use higher application in polluted water and when late 3rd and early 4th instar larvae predominate, mosquito populations are high, water is heavily polluted and/or algae are abundant.

SPECIFIC APPLICATION INSTRUCTIONS

Apply AquaBac xt in conventional aerial and ground application equipment with sufficient water to provide thorough coverage of the target area. The amount of water needed depends on weather, type of spray equipment and mosquito habitat.

Make ground applications in 1-100 gallons of water per acre in conventional equipment. Use as low as one gallon of water per acre surface area when the target area is open with light vegetative cover.

Make aerial applications diluted or undiluted. For undiluted applications, apply 0.25 to 2.0 pts/A of AquaBac xt through fixed wing aircraft or helicopters equipped with conventional boom and nozzles or rotary mist atomizers. For diluted applications, fill the mix tank or aircraft hopper with the appropriate volume of water and agitate before adding AquaBac xt. Maintain agitation during loading and spraying. Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment—and weather-related factors determines the potential for spray drift. The applicator and the grower are responsible for considering all of these factors when making decisions.

BLACKFLIES:

Concentration Range..... 0.5-75 ppm (0.50-75 mg of Aquabac xt/liter of stream water)

Maintain the concentration in the stream for 15 minutes using ground application equipment or metered release systems.

SPECIFIC APPLICATION INSTRUCTIONS: Apply with conventional ground equipment or metered release systems. Apply to infested sites to achieve larvicidal concentrations. Insecticidal activity will occur within 24 hours. Reapply as needed. Apply AquaBac xt undiluted through appropriate ULV application equipment.

NUISANCE FLIES: For control of the nuisance flies (*Psychoda* spp. and *Chironomus* spp.) in sewage treatment facilities utilizing trickling filter systems.

APPLICATION DIRECTIONS

Nuisance Fly Habitat

Aquabac xt Use Rates ⁽¹⁾

Trickling filter system of wastewater treatment plants..... 10-50 ppm (10-50 mg per liter) of wastewater feed to the system per 30 minutes.

⁽¹⁾ Use higher rates for control of *Chironomus* spp. Apply undiluted with a pre-calibrated pump or other device into the wastewater feeding into the filters for a minimum period of 30 minutes. Repeat applications as needed. Control of *Chironomus* spp. may take two weeks.

NUISANCE AQUATIC MIDGES:

For control of Chironomine midges (*Chironominae: Chironomine*) inhabiting shallow lakes and ponds (man-made and natural lakes).

APPLICATION DIRECTIONS: Nuisance Midge Habitat

Aquabac xt Use Rates ⁽¹⁾

Shallow lakes and ponds "per sewage" oxidation ponds (less than an acre, not more than 6 feet deep):.....1.0 gallon/acre (3.80 liters/acre)

⁽¹⁾ Apply diluted with water in a total volume of 5 gallons/acre by pouring or spraying over the surface to be treated with a pre-calibrated device.

Repeat applications as necessary. Control of *Chironomine* midges may take up to two weeks.

STORAGE AND DISPOSAL

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

Pesticide Storage: Store in a cool (59-86°F; 15-30°C), 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 Handling:

For containers less than or equal to 5 gallons:

Nonrefillable 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 water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix 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. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances. If burned, stay out of smoke.

For containers greater than 5 gallons:

Nonrefillable container. Do not reuse or refill this container. Triple rinse (or equivalent) container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances. If burned, stay out of smoke.

NOTICE TO USER

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 this label. To the extent consistent with applicable law, user assumes all risks of use, storage or handling not in strict accordance with label instructions.

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