



SAFETY DATA SHEET

AquaBac® xt Biological Larvicide

Effective Date: 20 February 2026
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SECTION 1. Identification of the Substance/Mixture and of the Company

Product Identifier

Formulation Identifier: AquaBac® xt Biological Larvicide
Other means of identification: AquaBac® xt
Registration Number PCPA: 26860

Relevant Identified Uses of the Substance or Mixture and Restrictions

Relevant Identified Uses: Insecticide, mosquito larvicide

Details of the Supplier of the Safety Data Sheet

Clarke Mosquito Control Products Inc.
675 Sidwell Court
Saint Charles, IL 60174 USA

Emergency Telephone Number

24-Hour Medical Emergency: POISON CONTROL Toll-free (800) 214 – 7753
24-Hour Transportation Emergency: INFOTRAC (800) 535-5053

SECTION 2. Hazards identification

Health Canada Pest Management Regulatory Agency
Workplace Hazardous Materials Information System WHMIS (2022)

Classification of the Substance or Mixture

Not Classified.

Other Hazards Not Classifiable Under WHMIS

None.

SECTION 3. Composition/Information on Ingredients

Components

Substance Name	CAS No.	Concentration % w/w
<i>Bacillus thuringiensis</i> subspecies <i>israelensis</i> serotype H-14, strain BMP 144*	68038-71-1	8.0

*Equivalent to 1,200 International Toxic Units per milligram (1.28 Billion ITU/kg).

Ingredients not identified are non-hazardous and are withheld as trade secret.

SECTION 4. First Aid Measures

Description of First Aid Measures

General advice: If symptoms develop or persist, or for treatment advice, call a poison control center or doctor.

If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present and if easy to do, after the first 5 minutes then continue rinsing.

If on skin: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes.

If swallowed: Call a poison control center or doctor if you feel unwell. Do not induce vomiting unless told to do so by a poison control center or doctor. Never give anything by mouth to an unconscious person.

If inhaled: Remove affected person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration; if by mouth-to-mouth use rescuer protection (pocket mask, etc.).

Most Important Symptoms and Effects, Both Acute and Delayed.

None

Indication of Immediate Medical Attention and Special Treatment

Treatment: Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended.



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SECTION 5. Fire-Fighting Measures

Extinguishing Media

Suitable Extinguishing Media: Dry chemical, water spray, foam or carbon dioxide. Use appropriate medium for underlying cause of fire.

Unsuitable Extinguishing Media: None known

Special Hazards Arising From the Substance or Mixture

Specific Hazards: Not determined.

Special Protective Equipment and Precautions for Fire-Fighters

Protection Against Fire: Wear positive pressure, self-contained breathing apparatus.

SECTION 6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

General Precautions: For respiratory protection wear a dust mask. Wear eye protection appropriate to handling activities. See personal protection as recommended in Section 8.

Environmental Precautions: Not determined.

Methods and Material for Containment and Cleaning Up

Clean Up Methods: Recover product. Place into appropriate container for disposal. Ventilate and wash spill area.

SECTION 7. Handling and Storage

Precautions for Safe Handling

Handling: Keep out of reach of children. Do not eat or drink while handling the product.

Hygiene Measures: Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

Conditions for Safe Storage, Including Any Incompatibilities

Storage: Tightly reclose containers of unused materials. Do not contaminate water, food or feed by storage or disposal. Store in a secure, cool, dry well-ventilated location. Store in the original container between 0 and 25°C and used within 24 months of the date of manufacture.

SECTION 8. Exposure Controls / Personal Protection

Control Parameters See Personal Protective Equipment.

Exposure controls

Engineering Controls: Use local exhaust.

Individual Protection Measures, such as Personal Protection Equipment:

Applicators and other handlers must wear: Long-sleeved shirt, long pants, waterproof gloves, shoes and socks, eye goggles and a NIOSH-approved respirator with any N-95, R-95, or P-95 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).

SECTION 9. Physical and Chemical Properties

Information on Basic Physical and Chemical Properties

Appearance: Aqueous solution (liquid)

Color: Tan

Odor: Mild, acidic fermentation

Odor Threshold: Not determined

pH: 4.5 – 4.8 (1%w/w*)

Melting Point: Not Applicable



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Freezing Point:	Not Determined
Initial Boiling Point:	Not Applicable
Flash Point:	Not Determined
Evaporation Rate:	Not Determined
Flammability:	Non-Flammable
Explosion limits [U/L]:	Not explosive
Vapor Pressure:	Not Determined
Vapor Density:	Not Applicable
Relative Density:	8.8 lbs/gal
Solubility:	Not Applicable
Partition Coefficient:	Not Determined
Auto-Ignition Temperature:	Not Determined
Viscosity:	800-1200 cps
Decomposition Temperature:	Not Determined
Explosive Properties:	Not Available
Oxidizing Properties:	Not Available

SECTION 10. Stability and Reactivity

Reactivity	Hazardous polymerization will not occur.
Chemical Stability	Stable under normal conditions
Possibility of Hazardous Reactions	
Hazardous Reactions:	None under normal conditions
Hazardous Polymerization:	Not known to occur
Conditions to Avoid	Alkalinity inactivates product.
Incompatible Materials	Alkaline environment may denature the active ingredient.
Hazardous Decomposition Products: None known under normal conditions of storage and use	

SECTION 11. Toxicological Information

Direct contact with eyes or skin may cause mild irritation.

Acute Toxicity

Pure Substance

Oral, Rat LD₅₀ : > 5,000 mg/kg-bw

Dermal, Rat LD₅₀ : > 2,000 mg/kg-bw

Inhalation, Rat 4-hour, LC₅₀: 25.1 mg/L

Dermal Corrosion/Irritation, Rabbit: Not a skin irritant, non-corrosive

Serious Eye Damage/Irritation, Rabbit: Not an eye irritant, non-corrosive

Skin Sensitization, Guinea pig: Not a skin sensitizer

Mutagenicity: Components of this product are not expected mutagens

Carcinogenicity:

NTP	IARC	OSHA	ACGIH
Not listed	Not listed	Not listed	Not listed

SECTION 12. Ecological Information

Ecotoxicity

Product specific data is not available. Data referenced is in relation to the active ingredient, *Bacillus thuringiensis* subspecies *israelensis*



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Fish LC₅₀> 370 mg/L (96-hr, Rainbow trout)

Bird LC₅₀> 3077 mg/kg (acute oral - Bobwhite quail)

LC₅₀>3077 mg/kg each day for 5 days (Sub-Acute Oral- Bobwhite Quail)

Invertebrates: LC₅₀> 50 mg/L (48-hr) Daphnia

Bees: Essentially non-toxic to honeybees.

Persistence and Degradability

Not available

SECTION 13. Disposal Considerations

Waste Treatment and Disposal methods

Product can be disposed in a landfill. Large volumes should be sent to a suitable incineration plant, observing local official regulations. Dispose of contaminated packaging materials in an appropriate place in accordance with approved local, state, and federal laws.

SECTION 14. Transport Information

DOT (US)

Not regulated

IMDG (Vessel)

Not regulated

ICAO/IATA (Air transport)

Not regulated

SECTION 15. Regulatory Information

Pest Control Products Act

Product must have PMRA Approved Pesticide Label attached to or accompanying container.

This chemical is a pesticide product registered by the PMRA and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions and limitations for its use.

PRECAUTIONS: KEEP OUT OF REACH OF UNAUTHORIZED PERSONNEL. MAY CAUSE SENSITIZATION. CAUTION EYE IRRITANT. Avoid contact with skin, eyes or clothing. Avoid breathing dust/spray mist. Wear a long-sleeved shirt, long pants, waterproof gloves, shoes and socks, eye goggles and a NIOSH-approved respirator with any N-95, R-95, or P-95 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.

Other US Federal Regulations

SARA TITLE III CLASSIFICATION

Section 302: None

Section 311/312: None

Section 313: None

CERCLA RQ: None

OSHA HAZARD COMMUNICATION STANDARD: This product is not considered a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

STATE RIGHT-TO-KNOW: National, state, provincial or local emergency planning, community right-to-know or other laws, regulations or ordinances may be applicable-consult applicable national, state, provincial or local laws.



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SECTION 16. Other Information

DISCLAIMER OF LIABILITY The information in this SDS was obtained from sources we believe to be reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared as is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

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