



Product: BT WORM KILLER
 EPA Reg. No.: 869-174
 Effective Date: 06-19-2001

MATERIAL SAFETY DATA SHEET
 Emergency Phone 800/535-5053

Size **Product Number** **UPC Code**
 Pint 27316 0 49424 27316 4

Note: Be sure to compare the EPA registration number as given on the MSDS with the EPA registration number as given on the label as some products have had the active ingredients changed without a corresponding change in the UPC number or in the item description.

1. INGREDIENTS:

Bacillus thuringiensis CAS No. 68038-71-1

2. COMPOSITION/INFORMATION ON INGREDIENTS:

Material	OSHA/ PEL	ACGIH/ TLV	Other	NTP/IARC/OSHA Carcinogen
Surfactant	Not Established	Not Established	2mg/m3 (STEL=6 mg/m3)*	No
Sodium Sulfate	15 mg/m3 (Total Dust)	10 mg/m3 (Total Dust)	Not Established	No
Solvent Bacillus	1,000 ppm	1,000 ppm	Not Established	IARC, (Unassigned)
thuringiensis (0.8%)	Not Established	Not Established	Not Established	No

*recommended by manufacturer

3. HAZARDS IDENTIFICATION:

NOTE TO PHYSICIAN: There is no specific antidote if this product is ingested. If a large amount has been ingested and emesis is inadequate, lavage stomach. Treat symptomatically.

SYMPTOMS OF ACUTE EXPOSURE: Exposure may result in eye irritation. A skin sensitization (allergic) reaction may occur in sensitive individuals.

HAZARDOUS DECOMPOSITION PRODUCTS: None known.

PHYSICAL PROPERTIES:

Appearance: Green liquid
 Odor: Slight fish odor

UNUSUAL FIRE, EXPLOSION AND REACTIVITY HAZARDS: None known.

4. FIRST AID MEASURES:

If poisoning is suspected, immediately contact a physician, the nearest hospital, or the nearest Poison Control Center. Tell the person contacted the complete product name, and the type and amount of exposure. Describe any symptoms and follow the advice given.

INGESTION: If the victim is fully conscious, give a large quantity of water to drink and induce vomiting. Never give anything by mouth to an unconscious person.

EYE CONTACT: Immediately rinse eyes with a large amount of running water. Hold eyelids apart to rinse the entire surface of the eyes and lids. Do not apply any medicating agents except on the advice of a physician.

SKIN CONTACT: Wash with plenty of soap and water, including hair and under fingernails. Do not apply any medicating agents except on the advice of a physician. Remove contaminated clothing and decontaminate prior to use.

INHALATION: Move victim from contaminated area to fresh air. Apply artificial respiration, if necessary.



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MEDICAL CONDITION LIKELY TO BE AGGRAVATED BY EXPOSURE:

Individuals with allergic history or pre-existing dermatitis should use extra precautions when handling this product.

5. FIRE FIGHTING MEASURES:

FIRE AND EXPLOSION:

FLASHPOINT (Test Method): Not available.
FLAMMABLE LIMITS (% in Air): Lower % and Upper %: Not available.
AUTOIGNITION TEMPERATURE: Not available.
FLAMMABILITY: Not applicable.

**UNUSUAL FIRE, EXPLOSION AND REACTIVITY HAZARDS:
IN CASE OF FIRE:**

None known.
Use dry chemical, foam, or CO2 extinguishing media. 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.

6. ACCIDENTAL RELEASE MEASURES:

IN CASE OF SPILL OR LEAK:

Wear chemical safety glasses with side shields or chemical goggles, rubber gloves, rubber boots, long-sleeved shirt, long pants, head covering, and a NIOSH-approved chemical cartridge pesticide respirator with organic vapor pre-cartridges or a supplied-air respirator. For small spills, cover with an absorbent material such as pet litter. Sweep up, and place in an approved chemical container. Wash the spill area with water containing a strong detergent, absorb with pet litter or other absorbent material, sweep up and place in a chemical container. Seal the container and handle in an approved manner. Flush the area with water to remove any residue. Do not allow wash water to contaminate water supplies.

7. HANDLING AND STORAGE:

Store the material in a well-ventilated, secure area out of reach of children or domestic animals. Do not store food, beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. Always wash thoroughly after handling.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

INGESTION: Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. Always wash thoroughly after handling.
EYE CONTACT: To avoid eye contact, wear chemical safety glasses with side shields or chemical goggles.
SKIN CONTACT: To avoid skin contact, wear rubber gloves, rubber boots, long-sleeved shirt, long pants, and a head covering.
INHALATION: To avoid breathing mist or vapors, wear a NIOSH-approved chemical cartridge pesticide respirator with organic vapor pre-cartridges or a supplied-air respirator.

9. PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE: Green liquid.
ODOR: Slight fish odor.



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MELTING POINT: Not applicable.
 BOILING POINT: 212°F
 SPECIFIC GRAVITY/DENSITY: 1.01
 pH: 4.8 - 5.2
 SOLUBILITY IN H2O
 Bacillus thuringiensis Not available.
 VAPOR PRESSURE
 Bacillus thuringiensis Not available.

10. STABILITY AND REACTIVITY:

REACTIVITY:
 Stability: Stable.
 Hazardous Polymerization: Will not occur.
 Conditions to Avoid: None known.
 HAZARDOUS DECOMPOSITION
 PRODUCTS: None known.

11. TOXICOLOGICAL INFORMATION:

ACUTE TOXICITY/IRRITATION STUDIES:

Ingestion: Slightly toxic Oral LD5 (rat)0: >7.2E+10 CFU/kg
 Dermal: Slightly toxic Dermal (guinea pig): >1.8E+07 CFU/kg
 Inhalation: Slightly toxic Inhalation LC50 (mouse): >3300000000 CFU/Liter
 Eye Contact: Non-irritating (rabbit).
 Skin Contact: Slightly irritating (rabbit).
 Skin Sensitization: Not available.

MUTAGENIC POTENTIAL:

Bacillus thuringiensis: None observed.

REPRODUCTION HAZARD POTENTIAL:

Bacillus thuringiensis: Not available.

CHRONIC/SUBCHRONIC TOXICITY STUDIES:

Bacillus thuringiensis: Not available.

CARCINOGENIC POTENTIAL:

Bacillus thuringiensis: Not available.

OTHER TOXICITY INFORMATION: Not available.

TOXICITY OF OTHER COMPONENTS:

Solvent: Exposure results in skin, eyes or respiratory tract irritation. Prolonged inhalation may result in nausea, headache, vomiting and central nervous system depression. Listed as IARC carcinogen which has not been assigned an overall evaluation (animal data not adequate).
 Surfactant: Repeated or prolonged inhalation of dust can cause irritation of nose, throat and lungs. Exposure can result in headache, nausea, dizziness and slight irritation to eyes and skin.

TARGET ORGANS:

Active ingredients:
 Bacillus thuringiensis: Not available.
 Inert Ingredients:
 Solvent: Eyes, skin, respiratory tract and central nervous system.
 Surfactant: Eyes, skin and respiratory tract.

12. ECOLOGICAL INFORMATION:

SUMMARY OF EFFECTS:

Bacillus thuringiensis: Low toxicity to fish and wildlife.
 ECO-ACUTE TOXICITY:



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Bacillus thuringiensis:

Bobwhite Oral LD50: >16,665 mg/kg

Mallard Oral LD50: >16,665 mg/kg

ECO-CHRONIC TOXICITY:

Bacillus thuringiensis:

Invertebrate (Daphnia magna) life cycle NOEL 1.6E08 CFU/L

ENVIRONMENTAL FATE:

Bacillus thuringiensis:

Not available.

13. DISPOSAL CONSIDERATION:

DISPOSAL:

Do not reuse product containers. Dispose of product containers, waste containers, and residues according to local, state, and federal health and environmental regulations.

CHARACTERISTIC WASTE:

Not applicable.

LISTED WASTE:

Not applicable.

14. TRANSPORTATION INFORMATION:

DOT CLASSIFICATION:

Not applicable, no label or placard required.

B/L FREIGHT CLASSIFICATION:

Insecticides or Fungicides; Agricultural, N.O.S.

INTERNATIONAL TRANSPORTATION: Not applicable.

15. REGULATORY INFORMATION:

SARA TITLE III CLASSIFICATION:

Section 311/312:

Acute health hazard.

Chronic health hazard.

Section 313 chemical(s):

Not applicable.

PROPOSITION 65:

Not applicable.

CERCLA REPORTABLE

QUANTITY (RQ):

None.

RCRA CLASSIFICATION:

Not applicable.

TSCA STATUS:

Exempt from TSCA.

16. OTHER INFORMATION:

NFPA HAZARD RATINGS:

Health: 1

Flammability: 0

Reactivity: 0

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