



MATERIAL SAFETY DATA SHEET

Distributed by:

Lawn and Garden Products, Inc.
P.O. Box 35000
Fresno, CA 93745-5000

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Emergency Phone Numbers: Days: (559) 499-2100 Eves.: (559) 994-9144
Chemtrec (24 Hr. Emergency Number): (800) 424-9300
EPA National Response Center: (800) 424-8802

1. CHEMICAL IDENTIFICATION

Product Name: **MONTEREY B.t.** **EPA Reg. No. : 70051-106-54705**

EPA Signal Word: CAUTION

Active Ingredient: *Bacillus thuringiensis* subspecies *kurstaki* strain SA-12 solids, spores and
Lepidopteran active toxins

CAS No.: 68038-71-1

Chemical Name: Not Applicable

Chemical Class: Biological Insecticide

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Material</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>Other</u>	<u>NTP/IARC/OSHA Carcinogen</u>
<i>B. thuringiensis</i> 98.35%	Not Established	Not Established	Not Established	No
Other 1.65%				

3. HAZARDS IDENTIFICATION

Notes 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: Tan Liquid
Odor: Clay-like.

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.

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 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.

Notes 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.

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

Flash Point (Test Method):	Not Available
Flammable Limits (% in Air):	Lower: %; Upper: % Not Available
Autoignition Temperature:	Not Available
Flammability:	Not Applicable

Unusual Fire, Explosion and Reactivity Hazards

None Known

In Case of Fire

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 the reach of children and domestic animals. Do not store food, beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco usage, 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 usage 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 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: Tan Liquid.
Odor: Clay-like.
Melting Point: Not Applicable
Boiling Point: 212°F
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:	<u>slightly toxic</u> Oral LD50 (Rat) :	> 7.2E+10 CFU/kg
Dermal:	<u>slightly toxic</u> Dermal LD50 (Guinea Pig) :	> 1.8E+07 CFU/kg
Inhalation:	<u>slightly toxic</u> 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

Reproductive 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

Not applicable

Target Organs

Active Ingredients

Bacillus thuringiensis: Not Available

Inert Ingredients

12. ECOLOGICAL INFORMATION

Summary of Effects

Bacillus thuringiensis: Low toxicity to fish and wildlife

Eco-Acute Toxicity

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

Pesticide Disposal and Container Handling

Nonrefillable container. Do not reuse or refill this container.

If empty:

Place in trash or offer for recycling, if available.

If partly filled:

Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

14. TRANSPORT INFORMATION

DOT Classification: Not D.O.T. Regulated.

Other Shipping Description: Insecticides or Fungicides, N.O.I. Other than Poison
NMFC Item 102120, LTL Class 60

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	0	Least
Flammability:	0	1	Slight
Reactivity:	0	2	Moderate
		3	High
		4	Severe

All information appearing in this document was based on data provided by third party sources and was compiled to comply with the Federal Hazard Communication Standard and the California Hazardous Substances Information and Training Act. The information is believed to be accurate as of the preparation date, but is not warranted as being the final authority in the use of this product. This information does not purport to be legal or medical advice.