



SDS per US OSHA Hazard Communication Standard (HazCom) 2012, 29 CFR §1910.1200

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1. PRODUCT IDENTIFIER**

Product name: Monterey® B.t. RTU (Ready-to-Use)
Product Type: Insecticide
EPA Registration No. 70051-113-54705
Active Ingredient(s): *Bacillus thuringiensis* subspecies *kurstaki* strain SA-12
CAS No.: 68038-71-1

1.2. RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

Identified uses: For use as an insecticide on listed crops.
Uses advised against: Any use not listed on the label.

1.3. DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Name: Lawn and Garden Products, Inc.
Address: PO Box 35000
Fresno, California 93745 USA
Phone Number: +1 (559) 499-2100
Website: info@montereylawnngarden.com

1.4. EMERGENCY TELEPHONE NUMBER

Emergency number (24 Hour): +1 (800) 255-3924

SECTION 2: HAZARDS IDENTIFICATION**2.1. CLASSIFICATION OF THE SUBSTANCE OR MIXTURE**

OSHA Hazard Classification: None.
Signal Word: None.
Hazard Statements: None.
Pictogram: None.

Precautionary Statements: None.

2.2. OTHER HAZARDS

None known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Active Ingredient(s)		CAS #	% w/w
Bacillus thuringiensis subspecies kurstaki strain SA-12		68038-71-1	9.83%
Hazardous Ingredient(s)	Classification	CAS #	% w/w
None.			

SECTION 4: FIRST AID MEASURES

4.1. DESCRIPTION OF FIRST AID MEASURES

Generic measures: Treat symptomatically. Hotline Number: 1-800-255-3924. Have the product container or label with you when calling a poison control center or doctor or going for treatment.

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. Call a poison control center or doctor for treatment advice.

4.2. MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

May cause minor eye or skin irritation. May cause mild sensitization.

4.3. INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1. EXTINGUISHING MEDIA

Suitable Extinguishing Media: Dry chemical, foam, carbon dioxide.

Unsuitable Extinguishing Media: Water.

5.2. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Hazardous combustion products: None known.

5.3. ADVICE FOR FIREFIGHTERS;

Protection of Firefighters: Keep upwind of fire. Wear protective clothing and self-contained breathing apparatus. Fight fire from a safe distance.

5.4. OTHER INFORMATION

Not applicable.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

For non-emergency personnel: Avoid substance contact. Ensure adequate ventilation. Evacuate the area and observe emergency procedures.

For emergency responders: Use appropriate personal protective equipment. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

6.2. ENVIRONMENTAL PRECAUTIONS

Environmental Hazards: To protect the environment do not allow pesticide to enter or run off into storm drains, ditches, gutters, or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over treated area will help avoid run off to water bodies or drainage systems.

6.3. METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Methods for Containment and Clean-Up: Caution: spillages may be slippery. For small spills, contain the spill with absorbent material and stop the flow. Prevent contamination of water sources. Collect as much material as possible. Transfer to a suitable, clean container for disposal or recovery. Seal the container and handle in an approved manner. Reclaim material if possible.

Other Information: Dispose of in accordance with all Federal, State and local procedures.

6.4. REFERENCE TO OTHER SECTIONS

Refer to Section 13 for disposal considerations.

SECTION 7: HANDLING AND STORAGE

7.1. PRECAUTIONS FOR SAFE HANDLING

Causes moderate eye irritation. Avoid contact with eyes or clothing. Avoid breathing vapors or spray mist. Wash thoroughly with soap and water after handling.

Always shake Monterey B.t. RTU (Ready-to-Use) thoroughly before use. Shake regularly while spraying.

7.2. CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

PESTICIDE STORAGE: Store in a cool place. Activity may be impaired by storage at temperatures above 90°F.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. CONTROL PARAMETERS

Substance

None.

Occupational Exposure LimitsOSHA PELs: not establishedACGIH TLVs: not established

No occupational limit assigned.

8.2. EXPOSURE CONTROLS

None specified.

8.2.1. ENGINEERING CONTROLS:

Not applicable.

8.2.2. PERSONAL PROTECTIVE EQUIPMENT:

None specified.

8.2.3. ENVIRONMENTAL EXPOSURE CONTROLS

To protect the environment do not allow pesticide to enter or run off into storm drains, ditches, gutters, or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over treated area will help avoid run off to water bodies or drainage systems.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Tan liquid
Odor:	Earthy
Odor Threshold:	Not determined
pH:	4.0 – 5.0
Melting Point / Freezing Point:	32°F (0°C)
Initial Boiling Point:	212°F (100°C)
Boiling Range:	Not determined
Flash Point:	Not determined
Evaporation Rate:	Not determined
Flammability (solid, gas):	Not applicable

Lower & Upper Flammability Limits:	Not applicable
Vapor Pressure:	Not determined
Vapor Density (Air = 1):	Not determined
Density:	0.955 – 1.055 g/mL
Solubility:	Not determined
Partition Coefficient (n-octanol/water):	Not determined
Auto-ignition Temperature:	Not determined
Decomposition Temperature:	Not determined
Viscosity:	Not determined
Other relevant properties:	None.

9.2. OTHER INFORMATION

Explosion properties:	Not explosive
Oxidizing properties:	Not determined

SECTION 10: STABILITY AND REACTIVITY

10.1. REACTIVITY

Not reactive.

10.2. CHEMICAL STABILITY

Chemically stable if stored and handled properly according to the label.

10.3. POSSIBILITY OF HAZARDOUS REACTIONS

No known or expected hazardous reactions when handled and stored according to stated provisions.

10.4. CONDITIONS TO AVOID

Do not freeze.

10.5. INCOMPATIBLE MATERIALS

None known.

10.6. HAZARDOUS DECOMPOSITION PRODUCTS

None known.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. LIKELY ROUTES OF EXPOSURE

Oral, dermal, ocular, inhalation

Revision Date: 2024-06-01

Replaces: 2020-05-11

Reason for Revision: Periodic Review

11.2 SYMPTOMS RELATED TO PHYSICAL, CHEMICAL, AND/OR TOXICOLOGICAL CHARACTERISTICS

May cause minor eye or skin irritation. May cause mild skin sensitization.

11.3 EFFECTS (DELAYED/IMMEDIATE/CHRONIC) FROM SHORT- AND LONG-TERM EXPOSURE

See section 4.

11.4 ACUTE TOXICITY

Test	Results	US EPA Toxicity Category
Acute oral LD ₅₀	No toxicity or infectivity (test material: 100% Btk SA-12)	IV
Acute dermal LD ₅₀	No toxicity observed (test material: 100% Btk SA-12)	IV
Acute inhalation LC ₅₀	No toxicity or infectivity (test material: 100% Btk SA-12)	IV
Eye irritation:	Moderately and reversibly irritating (test material: Thuricide® HPC)	III
Skin irritation:	Slightly irritating (test material: Thuricide® HPC)	IV
Respiratory or skin sensitization:	Repeated exposure to high concentrations of microbial proteins can cause allergic sensitization.	Not applicable

11.5 OTHER INFORMATION ON ADVERSE HEALTH EFFECTS

Carcinogenicity

NTP: not listed

IARC: not listed

OSHA: not listed

SECTION 12: ECOLOGICAL INFORMATION

12.1. TOXICITY

Species	Test	Study Duration	Conditions	Test substance	Results
Bobwhite Quail (<i>Colinus virginianus</i>)	Avian acute oral	5-day	Gavage	Similar Btk strain	LD ₅₀ > 2,150 mg/kg bw
Rainbow trout (<i>Oncorhynchus mykiss</i>)	Acute freshwater fish	30-day		Similar Btk strain	LC ₅₀ > 1 x 10 ⁸ CFU/mL
Daphnid (<i>Daphnia magna</i>)	Acute freshwater invertebrate	48-hour	Static	Similar Btk strain	EC ₅₀ > 1 x 10 ⁸ CFU/mL
Honey bee (<i>Apis mellifera</i>)	Acute honeybee	10-day		Btk SA-12	Not toxic to honey bees

12.2. PERSISTENCE AND DEGRADABILITY

Bacillus thuringiensis subspecies *kurstaki* (Btk) shows a rapid loss of activity in response to UV light.

12.3. BIOACCUMULATIVE POTENTIAL

Btk is not pathogenic and does not reproduce in living organisms other than target Lepidopteran larvae.

12.4. MOBILITY IN SOIL

Btk is not expected to move or leach.

12.5. OTHER ADVERSE EFFECTS

None noted. See 12.2 above.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. WASTE TREATMENT METHODS

Pesticide and Container Handling: Nonrefillable container. Do not reuse or refill this container.

for containers less than or equal to 5 gallons

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.

for containers greater than 5 gallons

Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container $\frac{1}{4}$ full with water. Replace and tighten closures. Tip the 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 and disposal. Repeat this procedure two more times. Then offer for recycling, if available, or puncture and dispose of in a sanitary landfill, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

SECTION 14: TRANSPORTATION INFORMATION

14.1. UN NUMBER

None. Not applicable.

14.2. UN PROPER SHIPPING NAME

None. Not applicable.

14.3. TRANSPORT HAZARD CLASS(ES)

Not applicable.

14.4. PACKING GROUP

Not applicable.

14.5. ENVIRONMENTAL HAZARDS

None. Not classified as a Marine Pollutant.

14.6. SPECIAL PRECAUTIONS FOR USER

None.

14.7. TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL73/78 AND THE IBC CODE

Not applicable.

SECTION 15: REGULATORY INFORMATION**15.1. SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE****EPA/FIFRA:**

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

**KEEP OUT OF REACH OF CHILDREN
CAUTION****PRECAUTIONARY STATEMENTS****HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

CAUTION. Causes moderate eye irritation. Avoid contact with eyes or clothing. Avoid breathing vapors or spray mist. Wash thoroughly with soap and water after handling.

OSHA:

N/A.

TSCA STATUS:

Exempt.

CERCLA REPORTABLE QUANTITY:

N/A.

SARA TITLE III:

Section 302: N/A

Section 311/312: N/A

Section 313: N/A

RCRA STATUS:

N/A

SECTION 16: OTHER INFORMATION**ABBREVIATIONS**

OSHA	US Occupational Health and Safety Administration
EPA	US Environmental Protection Agency
FIFRA	Federal Insecticide, Fungicide, and Rodenticide Act

Revision Date: 2024-06-01

Replaces: 2020-05-11

Reason for Revision: Periodic Review

SAFETY DATA SHEET (SDS)

Monterey® B.t. RTU (Ready-to-Use)

CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act (Superfund)
RCRA	Resource Conservation and Recovery Act
SARA	Superfund Amendments and Reauthorization Act
TSCA	Toxic Substances Control Act
PEL	Permissible exposure limit
STOT	Specific target organ toxicity
TLV	Threshold limit value
TWA	Time-weighted average
LD ₅₀	Median lethal dose: dose resulting in 50% mortality in the test species
LC ₅₀	Median lethal concentration: concentration resulting in 50% mortality in the test species
EC ₅₀	Median effective concentration: concentration resulting in 50% reduction in algae growth or algae growth rate, or <i>Daphnia</i> immobilization
PPE	Personal protective equipment
PBT	Persistent, bioaccumulative, and toxic
vPvB	Very persistent, very bioaccumulative
MARPOL 73/78	International Convention for the Prevention of Pollution from Ships, 1973 as modified by the Protocol of 1978 (<u>Marine Pollution 1973/1978</u> ,

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