



SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: Monterey Complete Disease Control Brand
EPA Registration No. 70051-107-54705
Product Type: Liquid Concentrate
Active Ingredient: *Bacillus amyloliquefaciens* strain D747
CAS No.: 68038-60-8 (*Bacillus amyloliquefaciens*)

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Biological Fungicide
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
U.S.A.
Phone Number: (559) 499-2100
E-mail: info@montereylawnandgarden.com

1.4. Emergency telephone number

Emergency number: Chem-Tel: +1 800 255-3924

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Hazard Classification: None
Signal Word: None
Hazard Statements: None
Pictogram: None
Precautionary Statement: None

Refer to Section 15 for EPA Precautionary Statements.

2.2 Other hazards

For terrestrial uses only, do not apply directly to water or to areas where surface waters is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters or rinsate. Do not apply when weather conditions favor drift or runoff from treated areas.

SECTION 3: Composition/information on ingredients**3.1 Substance**

Ingredient	CAS Number	% by weight
<i>Bacillus amyloliquefaciens</i> strain D747	68038-60-8 (<i>Bacillus amyloliquefaciens</i>)	98.85

Other components are non-hazardous, or specific identity is withheld as a trade secret.

SECTION 4: First aid measures**4.1. Description of first aid measures****Generic measures**

- Eye Contact:** Immediately flush with water holding eye open for 15-20 minutes. Remove contact lenses after 5 minutes if present and continue rinsing eye. Seek medical attention if irritation persists.
- Skin Contact:** Remove contaminated clothing and wash affected area with plenty of soap and water. If irritation persists call poison control or doctor for treatment advice
- Inhalation:** Remove individual to fresh air. If person is not breathing call 911 or an ambulance, then give artificial respiration, preferably mouth to mouth if possible. Call poison control center or doctor for further advice.
- Have the product label with you when calling a poison control center or doctor.

4.2. Most important symptoms and effects, both acute and delayed

May cause an allergic reaction in some individuals

4.3. Indication of any immediate medical attention and special treatment needed

Note to Physicians: Not available.

SECTION 5: Firefighting measures**5.1. Extinguishing media**

- Suitable Extinguishing Media:** All extinguishing media, treat for surrounding material.
- Unsuitable Extinguishing Media:** Not available.

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.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

For non-emergency personnel: Keep unauthorized people away from the concerned area. Use

personal protections as indicated in Section 8. Evacuate the danger area and observe emergency precautions.

For emergency responders:

Use personal protection recommended in Section 8. Isolate the hazard area and deny entrance to any unnecessary and unprotected personnel.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Methods for Containment: Recover free product. Use absorbent material to minimize runoff of product or mixed product.

Methods for Clean-Up: Seal container and handle in an approved manner. Do not allow wash water to contaminate water supplies. Dispose of in accordance with Federal State and local regulations for disposal of non-hazardous waste.

Other Information: Not available.

6.4. Reference to other sections

Refer to Section 8 for further information on protective clothing and Section 13 for directions for waste disposal.

SECTION 7: Handling and storage
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7.1. Precautions for safe handling:

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.

Follow manufacturers instructions for cleaning/maintaining PPE. If no instructions are available, use detergent and hot water for washables. Keep and wash PPE separately from other laundry. Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing.

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

7.2. Conditions for safe storage, including any incompatibilities

Store pesticide in a cool dry area that is inaccessible to children. Store in original containers only. Keep container closed when not in use.

7.3. Specific end use(s)

Use only as specified on the label

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

OSHA Permissible Exposure Limits (PELs): Not established.

ACGIH Threshold Limit Values: Not established.

Other Exposure Limits: Not established.

8.2. Exposure controls

- Engineering Controls:** Use in well ventilated area.
- Personal Protective Equipment**
- Eye/Face Protection:** None specified.
- Skin Protection** Long-sleeved shirt and long pants, shoes plus socks.
- Hand Protection:** Waterproof gloves.
- Body Protection:** Shoes plus socks.
- Respiratory Protection:** Mixer loaders and applicators must wear a dust/mist respirator meeting NIOSH standards of at least N-95, R- 95, or P-95.
- Thermal Hazards:** None specified.
- General Hygiene Considerations:** Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, and using the toilet.
- Environmental exposure controls:** For terrestrial uses only. Do not apply directly to water or to areas where surface water is present or intertidal areas below high water mark. Do not contaminate water when disposing of equipment wash water or rinsate. Do not apply when weather conditions favor drift or run off from treated areas.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Appearance:** Tan liquid.
- Odour:** Yeast-like.
- Odour Threshold:** Not determined.
- pH:** 4.0-5.0
- Melting Point / Freezing Point:** Not applicable.
- 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 determined.
- Vapour Pressure:** Not determined.

Vapour Density:	Not determined.
Density:	1.06 g/mL
Solubility:	Not determined.
Partition Coefficient (n-octanol/water):	Not determined.
Auto-ignition Temperature:	540°C.
Decomposition Temperature:	Not determined.
Viscosity:	4.0-16 cP
Explosive Properties:	No explosive properties.
Oxidising Properties:	No oxidizing properties.

9.2. Other information

Not available.

SECTION 10: Stability and reactivity

<u>10.1. Reactivity</u>	No known hazardous reactions when handled and stored according to stated provisions.
<u>10.2. Chemical stability</u>	Stable when handled and stored according to stated provisions.
<u>10.3. Possibility of hazardous reactions</u>	No known hazardous reactions when handled and stored according to stated provisions.
<u>10.4. Conditions to avoid</u>	None known.
<u>10.5. Incompatible materials</u>	None known.
<u>10.6. Hazardous decomposition products</u>	None Known

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute Toxicity****Toxicological information on the substance or mixture:**

LD₅₀ (oral)	LD ₅₀ > 5000 mg/kg body weight rat
LD₅₀ (dermal)	LD ₅₀ > 5050 mg/kg body weight rat
LC₅₀ (inhalation)	LC ₅₀ > 5.17 mg/L
Skin corrosion / irritation:	Non-irritating, Toxicity Category IV
Eye irritation:	No positive effects exhibited in any eyes after treatment Practically non-irritating, Toxicity Category IV
Respiratory or skin sensitization:	No data available.

Other information on adverse health effects:

Carcinogenicity

NTP Listed: Not applicable.

IARC Listed: Not applicable.

OSHA: Not applicable.

11.2 Reference to other sections

See Section 4 for symptoms and acute and delayed effects.

SECTION 12: Ecological information

12.1. Toxicity

Test species	Test method	Test substance	LC ₅₀
Northern Bobwhite	Acute oral toxicity	<i>B. amyloliquefaciens</i> strain D747	LD ₅₀ > 2250 mg/kg body weight
<i>Oncorhynchus mykiss</i>	30 days	<i>B. amyloliquefaciens</i> strain D747	LC ₅₀ > 8.1 x 10 ¹⁰ CFU/L
<i>Daphnia magna</i>	21 days	<i>B. amyloliquefaciens</i> strain D747	EC ₅₀ > 2.3 x 10 ¹⁰ CFU/L
<i>Apis mellifera</i>	48 hour	<i>B. amyloliquefaciens</i> strain D747	LC ₅₀ > 1.0 x 10 ⁹ CFU/mL

12.2. Persistence and degradability

The active substance *B. amyloliquefaciens* D747 populations spreading to the environment during or after field application will rapidly decline to naturally occurring background levels.

12.3. Bioaccumulative potential

The active substance *B. amyloliquefaciens* D747 does not multiply and accumulate in animals and humans.

12.4. Mobility in soil

The active substance *B. amyloliquefaciens* D747 spores readily adsorb to the clay fractions in soils and show no evidence of leaching.

12.5. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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

Pesticide Storage: Store in a dry area inaccessible to children. Store in original containers only. Keep container closed when not in use.

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of onsite or at an approved waste disposal facility.

Container Handling: Non-refillable container. Do not reuse or refill this container.

- For containers equal to or less than 5 gallons

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 ¼ 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, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

- *For containers greater than 5 gallons*

Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ 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.

- *For 250 gal. or 5000 gal refillable containers*

Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this procedure two more times. When empty, return to point of sale or manufacturer.

SECTION 14: Transportation information

14.1. UN number

Not regulated.

14.2. UN proper shipping name

Not regulated.

14.3. Transport hazard class(es)

Not regulated.

14.4. Packing group

Not regulated.

14.5. Environmental hazards

Not regulated.

14.6. Special precautions for user

Not regulated.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not regulated.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EPA: This product is a pesticide product registered by the United States Environmental Protection Agency 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-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.

CAUTION, KEEP OUT OF REACH OF CHILDREN

Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.
Repeated exposure to high concentrations of microbial proteins can cause allergic sensitization.

<u>OSHA:</u>	N/A
<u>TSCA Status:</u>	Exempt
<u>CERCLA Reportable Quantity:</u>	N/A
<u>SARA Title III:</u>	
Section 302:	N/A
Section 311/312:	N/A
Section 313:	N/A
<u>RCRA Status:</u>	N/A

SECTION 16: Other information**Disclaimer:**

To the best of our knowledge, the information contained herein is accurate. However, neither Certis USA nor any of its subsidiaries assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All material may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.

SDS Authoring Information:

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