



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

**1.1. Product identifier**

**Product name:** Monterey Complete Disease Control Brand RTU  
**Product Type:** Liquid Bio-Fungicide  
**EPA Registration No.** 70051-114-54705  
**Active Ingredient:** *Bacillus amyloliquefaciens* strain D747  
**CAS No.:** 68038-60-8

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

**Identified uses:** Bio-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:** P.O. Box 35000  
Fresno, California 93745 U.S.A.

**Phone Number:** (559) 499-2100  
**Website:** info@montereylawnngarden.com

**1.4. Emergency telephone number**

**Emergency number:** Chemtrec® (24 hr): (800) 424-9300

**SECTION 2: Hazards identification**

**2.1. Classification of the substance or mixture**

**Hazard Classification:** Not classified as hazardous by OSHA  
**EPA Signal Word:** Caution\* (refer to section 15)  
**Hazard Statements:** None  
**Pictogram:** None  
**Precautionary Statements:** None

**2.2 Other Hazards:** None known

**SECTION 3: Composition/information on ingredients****3.1. Substances**

Ingredient	% by weight	CAS#
<i>Bacillus amyloliquefaciens</i> strain D747	9.88	68038-60-8

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

<b>Eye Contact:</b>	Hold eye open and rinse slowly and gently for 15-20 minutes. Remove contact lens after 5 minutes if present then continue rinsing eye. Call poison control center or doctor for treatment advice.
<b>Skin Contact:</b>	Take off contaminated clothing and rinse with plenty water for 15-20 minutes. Call poison control center or doctor for treatment advice.
<b>Inhalation:</b>	Move person to fresh air. If person is not breathing call 911 or an ambulance then give artificial respiration preferable mouth to mouth if possible. Call poison control center or doctor for further advice.
<b>Ingestion:</b>	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**

None specified

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

None specified

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

<b>Suitable Extinguishing Media:</b>	All extinguishing media
<b>Unsuitable Extinguishing Media:</b>	None known

**5.2. Special hazards arising from the substance or mixture****Hazardous combustion products:** None known**5.3. Advice for firefighters****Protection of Firefighters:** None specified

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

**For non-emergency personnel:** Use personal protection recommended in Section 8.

**For emergency responders:** Use personal protection recommended in Section 8.

**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:** None specified

**Methods for Clean-Up:** None specified

**Other Information:** None

**6.4. Reference to other sections**

See Section 8 for occupational exposure limits and risk management measures. Refer to Section 13 for disposal considerations..

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

- After handling wash thoroughly with soap and water before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove contaminated clothing promptly and wash separately before reuse.
- Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Avoid contact with skin, eyes, or clothing. Avoid breathing spray mist.

**7.2. Conditions for safe storage, including any incompatibilities**

Store in an area, that is inaccessible to children. Store in original containers only. Keep container closed when not in use.

**7.3. Specific end use(s)**

Double Nickel LC RTU provides control of plant pathogenic fungi and bacteria.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters**

**OSHA Permissible Exposure Limits (PELs):** Not determined

**ACGIH Threshold Limit Values:** Not determined

Other Exposure Limits: Not determined

### **8.2. Exposure controls**

<b>Engineering Controls:</b>	None specified
<b>Personal Protective Equipment</b>	None specified
<b>Eye/Face Protection:</b>	None specified
<b>Skin Protection</b>	None specified
<b>Hand Protection:</b>	None specified
<b>Body Protection:</b>	None specified
<b>Respiratory Protection:</b>	None specified
<b>Thermal Hazards:</b>	None
<b>General Hygiene Considerations:</b>	Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse.
<b>Environmental exposure controls:</b>	To protect the environment, do not allow pesticide to enter or run off into storm drains drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help ensure that wind or does not blow or wash pesticide off the treatment area.

## **SECTION 9: Physical and chemical properties**

### **9.1. Information on basic physical and chemical properties**

<b>Appearance:</b>	Cream colored liquid
<b>Odour:</b>	Yeast like
<b>Odour Threshold:</b>	Not determined
<b>pH:</b>	4.5-5.0
<b>Melting Point / Freezing Point:</b>	32°F (0°C)
<b>Initial Boiling Point:</b>	212°F (100°C)
<b>Boiling Range:</b>	Not available
<b>Flash Point:</b>	Not available
<b>Evaporation Rate:</b>	Not available
<b>Flammability (solid, gas):</b>	Not available
<b>Lower &amp; Upper Flammability Limits:</b>	Not available
<b>Vapour Pressure:</b>	Not available
<b>Vapour Density:</b>	Not available
<b>Density:</b>	0.93-1.03 g/ml
<b>Solubility:</b>	Not available
<b>Partition Coefficient (n-octanol/water):</b>	Not available
<b>Auto-ignition Temperature:</b>	Not available

**Decomposition Temperature:** Not available  
**Viscosity:** Not available  
**Explosive Properties:** None known  
**Oxidising Properties:** None known

**9.2. Other information**

Not available.

**SECTION 10: Stability and reactivity**

<b><u>10.1. Reactivity</u></b>	Stable
<b><u>10.2. Chemical stability</u></b>	Stable
<b><u>10.3. Possibility of hazardous reactions</u></b>	None known
<b><u>10.4. Conditions to avoid</u></b>	None known
<b><u>10.5. Incompatible materials</u></b>	None known
<b><u>10.6. Hazardous decomposition products</u></b>	None known

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

<b>LD<sub>50</sub> (oral)</b>	LD <sub>50</sub> > 5000 mg/kg body weight rat, test results based on similar product containing more concentrated active ingredient.
<b>LD<sub>50</sub> (dermal)</b>	LD <sub>50</sub> > 5050 mg/kg body weight rat, test results based on similar product containing more concentrated active ingredient.
<b>LC<sub>50</sub> (inhalation)</b>	LC <sub>50</sub> > 2.18 mg/L, test results based on similar product containing more concentrated active ingredient.
<b>Skin corrosion / irritation:</b>	Non-irritating, Toxicity Category IV, test results based on similar product containing more concentrated active ingredient.
<b>Eye irritation:</b>	No positive effects exhibited in any eyes after treatment Practically non-irritating, Toxicity Category IV, test results based on similar product containing more concentrated active ingredient.
<b>Respiratory or skin sensitization:</b>	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 <sub>50</sub>
Northern Bobwhite	Acute oral toxicity	<i>B. amyloliquefaciens</i> strain D747, active ingredient	LD <sub>50</sub> > 2250 mg/kg body weight
<i>Oncorhynchus mykiss</i>	30 days	<i>B. amyloliquefaciens</i> strain D747, active ingredient	LC <sub>50</sub> > 8.1 x 10 <sup>10</sup> CFU/L
<i>Daphnia magna</i>	21 days	<i>B. amyloliquefaciens</i> strain D747, active ingredient	EC <sub>50</sub> > 2.3 x 10 <sup>10</sup> CFU/L
<i>Apis mellifera</i>	48 hour	<i>B. amyloliquefaciens</i> strain D747, active ingredient	LC <sub>50</sub> > 1.0 x 10 <sup>9</sup> 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. Therefore the risk of ground water contamination is considered negligible.

**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 this product in its original container only, in an area inaccessible to children. Keep the container closed when not in use.

**Pesticide Disposal and Container Handling:** Non-refillable 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 any unused product down any indoor or outdoor drain.

**SECTION 14: Transportation information**

<b><u>14.1. UN number</u></b>	<b><u>14.2. UN proper shipping name</u></b>
Not regulated.	Not regulated.
<b><u>14.3. Transport hazard class(es)</u></b>	<b><u>14.4. Packing group</u></b>
Not regulated.	Not regulated.
<b><u>14.5. Environmental hazards</u></b>	<b><u>14.6. Special precautions for user</u></b>
Not regulated.	Not regulated.
<b><u>14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</u></b>	
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

Harmful if absorbed through skin. Harmful if inhaled.

Prolonged or frequently repeated skin contact may cause allergic reactions in some individual.

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

**SECTION 16: Other information**

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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:**

<b>Revision date:</b>	October 14, 2016
<b>Date of Previous version:</b>	March 23, 2015
<b>Reason for Revision:</b>	OSHA Hazard Communication Standard 2012
<b>SDS Prepared by:</b>	Certis U.S.A. L.L.C.