

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

**1.1. Product identifier**

**Product name:** SOILGARD  
**EPA Registration No.** 70051-3  
**Product Type:** Microbial Fungicide  
**Active Ingredient:** *Gliocladium virens* strain GL-21  
**CAS No.:** None

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

**Identified uses:** Fungicide  
**Uses advised against:** Any use not listed on the label

**1.3. Details of the supplier of the safety data sheet**

**Name:** Certis U.S.A., LLC  
**Address:** 9145 Guilford Road, Suite 175  
Columbia, Maryland 21046  
U.S.A.  
**Phone Number:** +01 (800) 255-3924  
**Website:** <http://www.certisusa.com>

**1.4. Emergency telephone number**

**Emergency number:** +1 800 255-3924

**SECTION 2: Hazards identification**

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

**Hazard Classification:** Not classified by OSHA  
**EPA Signal Word:** Caution (see section 15)  
**Hazard Statements:** None  
**Pictogram:** None  
**Precautionary Statements:** Causes moderate eye irritation. Avoid contact with eyes or clothing. Wear goggles, glasses and/or face shield. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco.

**2.2 Other Hazards:** Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash waters.

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

**3.1 Substances**

Component	CAS#	% by weight
<i>Glucadium virens</i> strain GL-21*	None	12%

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

**Generic measures**

**Eye Contact:** Hold eye open and rinse slowly and gently for 15-20 minutes. Remove contact lenses, if present after 5 minutes, then continue rinsing.  
Call a poison control center or a doctor for treatment advice.  
Have product container or label with you when calling a poison control center or doctor, or going for treatment.

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

Eye irritation

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

None specified

**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

**Suitable Extinguishing Media:** Water mist, alcohol resistant foam, dry powder, carbon dioxide

**Unsuitable Extinguishing Media:** 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:** See section 8 for personal protective equipment  
**For emergency responders:** See section 8 for personal protective equipment

**6.2. Environmental precautions** Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash waters.

**6.3. Methods and material for containment and cleaning up**

**Methods for Containment:** When possible reclaim spilled materials.  
**Methods for Clean-Up:** Sweep up and place into sealed containers for disposal according to federal, state, and local laws. Do not contaminate water, food, or feed by storage or disposal.  
**Other Information:**

**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**

Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing. Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

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

SoilGard is packaged in an airtight, foil-lined, resealable bag designed to protect the fungus from exposure to moisture and oxygen, which can impact storage life. For best results store in a cool, dry place (preferably refrigerated). In an unopened bag, SoilGard will retain its biological activity for up to one year at room temperature (70°F). Long-term exposure to air and higher temperatures (75°F to 100°F) may accelerate loss of bioactivity. Exposure to temperatures above 100°F for extended periods can be detrimental to SoilGard. An open bag of SoilGard can be kept for up to 3 months if the bag is tightly resealed and refrigerated (40°F to 45°F). Squeeze excess air from the bag before resealing.

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

Wastes resulting from the use of this product can be disposed of on site or at a waste disposal facility.

**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**

**Engineering Controls:** None specified

**Personal Protective Equipment**

**Eye/Face Protection:** Protective eyewear

**Skin Protection** Long sleeved shirt and long pants

**Hand Protection:** None specified

**Body Protection:** Shoes plus socks

**Respiratory Protection:** None specified

Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**Thermal Hazards:** None

**General Hygiene Considerations:**

Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing. Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**Environmental exposure controls:** Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash waters.

**SECTION 9: Physical and chemical properties**

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

**Appearance:** Brown granule

**Odour:** Earthy

**Odour Threshold:** Not determined

**pH 1% dilution:** 5.0-7.5

**Melting Point / Freezing Point:** Not applicable

**Initial Boiling Point:** Not applicable

**Boiling Range:** Not applicable

<b>Flash Point:</b>	Not determined
<b>Evaporation Rate:</b>	Not applicable
<b>Flammability (solid, gas):</b>	Not determined
<b>Lower &amp; Upper Flammability Limits:</b>	Not determined
<b>Vapour Pressure:</b>	Not applicable
<b>Vapour Density:</b>	Not applicable
<b>Density:</b>	0.44-0.65 g/cc
<b>Solubility:</b>	Not determined
<b>Partition Coefficient (n-octanol/water):</b>	Not determined
<b>Auto-ignition Temperature:</b>	Not determined
<b>Decomposition Temperature:</b>	Not determined
<b>Viscosity:</b>	Not applicable
<b>Explosive Properties:</b>	None known
<b>Oxidising Properties:</b>	None known

**9.2. Other information**

Not available.

**SECTION 10: Stability and reactivity**

<b><u>10.1. Reactivity</u></b>	None known
<b><u>10.2. Chemical stability</u></b>	Stable when stored according to the label
<b><u>10.3. Possibility of hazardous reactions</u></b>	None known
<b><u>10.4. Conditions to avoid</u></b>	High temperatures reduce effectiveness
<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:**

*Gliocladium virens* strain GL-21 is a naturally occurring fungus; no adverse effects are expected.

<b>LD<sub>50</sub> (oral)</b>	No toxicity or pathogenicity at 10 <sup>8</sup> CFU/animal
<b>LD<sub>50</sub> (dermal)</b>	No toxicity or pathogenicity at 10 <sup>8</sup> CFU/animal
<b>LC<sub>50</sub> (inhalation)</b>	No toxicity or pathogenicity at 10 <sup>8</sup> CFU/animal

**Skin corrosion / irritation:** No data available

**Eye damage/irritation:** Slightly irritating  
**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:**

Environmental risks are not expected. *Gliocladium virens GL-21* occurs naturally in many kinds of soil. Its use in pesticide products is not likely to increase exposure of wildlife, fish, or other organisms.

Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwater.

**12.2. Persistence and degradability** The fungus does not persist in soil.

**12.3. Bioaccumulative potential** No bioaccumulation expected.

**12.4. Mobility in soil** No data available.

**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:** SoilGard is packaged in an airtight, foil-lined, resealable bag designed to protect the fungus from exposure to moisture and oxygen, which can impact storage life. For best results store in a cool, dry place (preferably refrigerated). In an unopened bag, SoilGard will retain its biological activity for up to one year at room temperature (70°F). Long-term exposure to air and higher temperatures (75°F to 100°F) may accelerate loss of bioactivity. Exposure to temperatures above 100°F for extended periods can be detrimental to SoilGard. An open bag of SoilGard can be kept for up to 3 months if the bag is tightly resealed and refrigerated (40°F to 45°F). Squeeze excess air from the bag before resealing.

*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. Completely empty bag into application equipment. Then offer for recycling if available or dispose of empty bag in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**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.

Causes moderate eye irritation.

<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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**SDS Prepared by:** Certis U.S.A. L.L.C.