

Product Name: SoilGard 12G
Emergency Information: Chem Tel (800) 255-3924
Outside North America Call Collect (813) 248-0585

MATERIAL SAFETY DATA SHEET

Certis USA
9145 Guilford Road, Suite 175
Columbia, MD 21046

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

PRODUCT NAME..... : SoilGard 12G PRODUCT CODE : 4695
CHEMICAL FAMILY : Microbial
CHEMICAL NAME..... : *Gliocladium virens* GL-21 (*Trichoderma virens*)
FORMULA..... : N/A

EMERGENCY TELEPHONE NUMBERS:

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2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>COMPONENT</u>	<u>CAS #</u>	<u>WT.%</u>	<u>OSHA PEL</u>	<u>TWA</u>	<u>TLV's</u>	<u>STEL</u>
<i>Gliocladium virens</i> GL-21	N/A	12	N/A	N/A		N/A

3. HAZARDOUS IDENTIFICATION

EMERGENCY OVERVIEW

This product is a brown granular material intended for use as a soil-incorporated fungicide for use on greenhouse and nursery crops. This product should pose no health concerns through normal use in accordance with label directions.

Signal Word: Caution

Potential Health Effects

ROUTE(S) OF ENTRY..... : Eyes, skin, oral, inhalation

HUMAN EFFECTS AND SYMPTOMS OF OVEREXPOSURE : None noted

ACUTE EYE CONTACT : May cause mild, reversible irritation.

CHRONIC EYE CONTACT..... : Chronic exposure not likely from normal use.

ACUTE SKIN CONTACT..... : No acute toxicity or pathogenicity.

CHRONIC SKIN CONTACT : No hazards in normal use.

ACUTE INGESTION..... : No acute toxicity, infectivity, or pathogenicity.

CHRONIC INGESTION : Chronic exposure not likely from normal use.

ACUTE INHALATION : No acute toxicity, infectivity, or pathogenicity.

CHRONIC INHALATION..... : Chronic exposure not likely from normal use.



CARCINOGENICITY

NTP : N/A
IARC : N/A
OSHA : N/A

MEDICAL CONDITIONS

AGGRAVATED BY EXPOSURE : None noted

4. FIRST AID MEASURES:

FIRST AID FOR EYES : Hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes. Get medical attention.

FIRST AID FOR SKIN : Wash with soap and water. Remove contaminated clothing. Seek medical attention if irritation persists.

FIRST AID FOR INHALATION : Remove to fresh air. Seek medical attention if irritation persists.

FIRST AID FOR INGESTION : Ingestion, though not advised, should pose no danger. Seek medical attention if any adverse effects are noted.

5. FIRE FIGHTING MEASURES:

NFPA HAZARD CLASSIFICATION : HEALTH HAZARD 0 FIRE HAZARD 0
..... REACTIVITY 0

EXTINGUISHING MEDIA : Dry chemical, carbon dioxide, alcohol or polymer foam

UNUSUAL FIRE AND EXPLOSION HAZARDS : None

SPECIAL FIRE FIGHTING PROCEDURES : None

6. ACCIDENTAL RELEASE MEASURES:

SPILL OR LEAK PROCEDURES : Use gloves, eye protection, and dust mask during clean up. Sweep up and place in suitable container for disposal

7. HANDLING AND STORAGE:

STORAGE TEMPERATURE (MIN. / MAX.) : 32 / 95 °F 0 / 35 °C

SHELF LIFE : Stable for upwards of 1 year in cool , dry conditions.

SPECIAL SENSITIVITY : Avoid high temperatures. Keep package tightly sealed. Do not allow contents to get wet

HANDLING AND STORAGE PRECAUTIONS : Store in cool, dry conditions separately from feed and foodstuffs.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION:

EYE PROTECTION REQUIREMENTS : The use of safety goggles is recommended

SKIN PROTECTION REQUIREMENTS : Wear waterproof gloves when handling



RESPIRATORY / VENTILATION REQUIREMENTS : Provide local exhaust or general dilution ventilation. Use of a dust mask is recommended

EXPOSURE LIMITS : N/A

9. PHYSICAL AND CHEMICAL PROPERTIES:

PHYSICAL FORM : Granular
COLOR : Brown
ODOR : Molasses
BOILING POINT RANGE : N/A °F °C
MELT POINT / FREEZE POINT : N/A °F °C
FLASH POINT : N/A °F °C
AUTO IGNITION : N/A °F °C
UPPER EXPLOSIVE LIMITS (UEL) : N/A
LOWER EXPLOSIVE LIMITS (LEL) : N/A
pH : 6.5-7.5 (when dispersed in water)
SOLUBILITY IN WATER : Dispersible
SPECIFIC GRAVITY : N/A
BULK DENSITY : 25 lb./cu. Ft.
% VOLATILE BY WEIGHT : <1
VAPOR PRESSURE at 20 °C : N/A
VAPOR DENSITY : N/A

10. STABILITY AND REACTIVITY:

STABILITY : Stable
HAZARDOUS POLYMERIZATION : Will not occur
INCOMPATIBILITIES : None noted
DECOMPOSITION PRODUCTS : N/A
CONDITIONS TO AVOID : Avoid high temperatures

11. TOXICOLOGICAL INFORMATION:

Avoid contact with skin, eyes, or clothing. Wear goggles and rubber gloves when handling and mixing. In case of contact, flush eyes or skin with plenty of water. Get medical attention if irritation persists.

12. ECOLOGICAL INFORMATION:

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 disposing of equipment washwaters.

13. DISPOSAL CONSIDERATIONS:

WASTE DISPOSAL METHOD : Unused product may be disposed of in a sanitary landfill.



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14. TRANSPORTATION INFORMATION:

D.O.T. PROPER SHIPPING NAME..... : N/A
TECHNICAL SHIPPING NAME..... : *Gliocladium virens* GL-21 (*Trichoderma virens*)
D.O.T. HAZARD CLASS..... : N/A
U.N. /N.A. NUMBER..... : N/A
PRODUCT RQ (lbs.)..... : N/A
D.O.T. LABEL..... : N/A
D.O.T. PLACARD..... : N/A

15. REGULATORY INFORMATION:

OSHA STATUS..... : N/A
TSCA STATUS..... : N/A
CERCLA REPORTABLE QUANTITY..... : N/A

SARA TITLE III:

SECTION 302 EXTREMELY
HAZARDOUS SUBSTANCES..... : N/A
SECTION 311/312
HAZARD CATEGORIES..... : N/A
SECTION 313
TOXIC CHEMICALS..... : N/A

RCRA STATUS..... : N/A

STATE REGULATORY INFORMATION:

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections of the MSDS may also be applicable for state requirements. For detail on your regulatory requirements you should contact the appropriate agency in your state.

<u>COMPONENT NAME / CAS NUMBER</u>	<u>CONCENTRATION</u>	<u>STATE CODE</u>
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16. OTHER INFORMATION:

REASON FOR ISSUE..... : Company Change
APPROVAL DATE..... : 6/18/01
SUPERSEDES DATE..... : 5/6/98
MSDS NUMBER..... : 70051-3

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