



SAFETY DATA SHEET

Trade name: **Root Guardian™ Biological Fungicide
For Soilborne Diseases**

Product No: 2783 Print date: 8/13/2019

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: Root Guardian™ Biological Fungicide For Soilborne Diseases

Product Number: 2783

Product Use: Biological Fungicide

Manufacturer Name and Address: Gardens Alive 230 Mary Ave., Greendale IN 47025

Product Information: (513) 354-1483

Emergency Phone Number (Poison Control): 800-222-1222

SECTION 2: HAZARDS IDENTIFICATION

NFPA HAZARD RATINGS	No.	0 Least
Health	1	1 Slight
Flammability	1	2 Moderate
Reactivity	0	3 High
		4 Severe
HMIS HAZARD RATINGS	No.	Least
Health	1	1 Slight
Flammability	1	2 Moderate
Reactivity	0	3 High
		4 Severe

GHS Classification: Eye irritation-Category 2B

Signal word: WARNING! Can cause eye, skin, and respiratory tract irritation

Pictogram: None

<i>Routes of Entry:</i>	<i>Dust may cause eye, skin and respiratory tract irritation</i>
<i>Acute & Chronic Health Hazards:</i>	<i>None, not a hazard</i>
<i>Eye:</i>	<i>Dust may cause irritation.</i>
<i>Skin:</i>	<i>Dust may cause irritation.</i>
<i>Inhalation:</i>	<i>Dust may irritate the respiratory tract.</i>
<i>Ingestion:</i>	<i>Active ingredient has shown no mammalian toxicity.</i>
<i>Carcinogenicity:</i>	<i>The ingredients in this product are not listed by NTP, OSHA, or IARC as a carcinogen.</i>
<i>Chronic Effect(s):</i>	<i>No known effects</i>



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SECTION 3. HAZARDOUS INGREDIENTS / INDENTITY INFORMATION

Hazardous Components (Specific Chemical Identity):	CAS #	%	OSHA PEL	ACGIH TLV
Trichoderma harzianum Rifai strain KRL-AG2	67892-31-3	1.15	not established	not established
Inert ingredients	Confidential	98.85	not established	not established

General Use: Biological Fungicide
Common Name: RootShield® Granules

The specific chemical identities and percentages of composition have been withheld as trade secrets.

SECTION 4: FIRST AID MEASURES

Eyes: In cases of contact, hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

Skin Contact: Remove contaminated clothing. Wash thoroughly with soap and water immediately. Get medical attention if irritation develops.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

Ingestion: If swallowed, do NOT induce vomiting. Call a physician.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing Media: Not combustible

Special Firefighting Procedures: Evacuate personnel to a safe area. Keep personnel removed and upwind of fire. Wear self-contained breathing apparatus and full protective equipment.

Unusual Fire and Explosion Information: None known

Flash Point And Method: Not required

Chemical Incompatibility: Strong acidic materials

SECTION 6: ACCIDENTAL RELEASE MEASURES

Spill Or Leak Procedures: GENERAL: Take all additional action necessary to prevent and remedy the adverse effects of the spill. This product should be prevented from entering bodies of water.
SPECIFIC: In case of spill, collect material immediately. Wipe residual material from surfaces with cloth. Do not wash residues into drains or other waterways.



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SECTION 7: HANDLING AND STORAGE

Waste Disposal Method: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Dispose of empty container in a sanitary landfill or by incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Handling And Storage: Avoid contact with skin and eyes. Wash hands thoroughly before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash before reuse.

Store in original container in a cool, dry place. Do not store near food or feed commodities. Prevent exposure to moisture. Do not store at above 75oF for prolonged periods. Keep container tightly closed when not in use.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory Protection: When opening or dumping bags, or other operations where dusts may be created, wear a dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C) or a NIOSH approved respirator with an approximate N-95, R-95, P-95 or HE filter for biological products.

Ventilation: Use local exhaust appropriately wired for dust hazards to control dust.

Work/Hygienic Practices: Avoid contact with skin or clothing. Use only outdoors. Keep container tightly closed.

Protective Gloves: Use protective gloves.

Eye Protection: None necessary but recommended as good practice.

Other Protective Equipment: Applicators and other handlers must wear: long-sleeved shirt, long pants, socks, and shoes. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.



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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Grey or green granules

Odor: Earthy odor

Specific Gravity: 0.61 g/cm³

Boiling Point: Not determined

Vap. Pres: Not determined

Vap Dens: Not determined

Evap Rate: Not required

% Volatile By Volume: Not required

Solubility in Water: Insoluble

SECTION 10: STABILITY AND REACTIVITY

Stability: **Stable under normal recommended storage and handling conditions.**

Incompatibility: None – Strong oxidizing agents

Hazardous Decomposition or By-Products: Thermal decomposition will produce oxides of carbon and silicon.

Hazardous Polymerization: Will not occur

Conditions to Avoid: Strong acidic materials

SECTION 11: TOXICOLOGICAL INFORMATION

Active ingredient is practically non-toxic, non-allergenic and non-pathogenic to mammals. Pre-existing medical conditions should not be aggravated by exposure.

SECTION 12: ECOLOGICAL INFORMATION

Data not available. Do not apply directly to water, to areas where surface water is present.



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SECTION 13: DISPOSAL CONSIDERATION

All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. Vendor has no control over the management practices or manufacturing processes of parties handling or using this material.

SECTION 14: TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

SECTION 15: REGULATORY INFORMATION

D.O.T.	Land, air and sea
Proper Shipping Name:	Not regulated
FIFRA (Federal Insecticide, Fungicide and Rodenticide Act):	Regulated, EPA Reg. No. 68539-3
SARA 313:	No, Chemical
CERCLA:	No, Chemical
RCRA:	No
SARA 302:	No, Chemical
RQ:	None

SECTION 16: OTHER INFORMATION

MANUFACTURER DISCLAIMER: The information contained herein is, to the best of the manufacturer's knowledge and belief, accurate and reliable as of the date of the preparation of this document. However, no warranty or guarantee, express or implied, is made as to the accuracy or reliability, and the manufacturer shall not be liable for any loss or damage arising out of the use thereof. In addition, the manufacturer shall not be liable for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices or from any hazards inherent in the nature of the product.

NOTICE: How this product is used is very important and beyond the control of the seller. The buyer assumes all risks for any use beyond those described on the label or for any use under abnormal conditions.