



Material Safety Data Sheet
QuickRoots®
 Alfalfa Dry Planter Box

Section 1. Chemical and Company Identification.

Product Name: QuickRoots®

Chemical Family: Bacteria/Fungi,
 Phyllosilicates (structural)

Formula: Dried living organism

CAS No: Not Applicable

Company Name: TJ Technologies, Inc.
 3003 9th Avenue SW
 Watertown, SD 57201
 605-753-7770 (Tel.)

Product Code: QRCPB

Formula: Microbial Ingredients:

Bacillus subtilis var. *amyloliquefaciens*: (3.92% w/w)..... 2.5x10⁹ cfu/g
Trichoderma virens GI-3: (17.7% w/w)..... .5 x 10⁸ cfu/g

Other Ingredients:

Talc (24.0% w/w)
 Inert Ingredients (54.38% w/w)

Total 100.0%

Section 2. Hazards Identification

Hazardous Ingredients Component
 CAS No. % TLV/PEL

 Talc 14807-96-6 20-40 TWA 2 mg/ m³ from respirable fraction (ACGIH) See Section XVI (OSHA)
 All other ingredients 60-80 A s particles not otherwise regulated (PNOR). TWA: 15 mg/ m³ total dust
 5 mg/ m³ respirable dust

Pigments: NA	Base Metal: NA
Catalyst: NA	Alloys: NA
Vehicle: NA	Metallic Coatings: NA
Solvents: NA	Filler Metal Plus Coating or Core Flux: NA
Additives: NA	Others: NA

Topical ocular exposure to the dry powder may result in mild eye irritation. Topical dermal exposure may result in mild skin irritation.

Not an acute hazard. May cause mechanical eye or skin irritation in high concentrations. As with all mineral spills, minimize dusting during clean-up. Do not breathe dust. Prolonged inhalation may cause lung injury. Product can become slippery when wet.

Target organs: Pulmonary System (chronic risk).

First Aid Measures

Eyes: Flush with plenty of flowing water. Get medical attention if irritation persists.

Skin: Wash off with water.

Ingestion: Unlikely to be toxic by ingestion.

Inhalation: Allow the victim to rest in a well ventilated area if high concentration is inhaled and mechanical irritation or discomfort occurs. Seek medical attention if irritation persists.

Section 3. Physical Data

Boiling Point (deg F): NA

Specific Gravity (H2O=1): NA

Vapor Pressure (mm Hg): NA

Viscosity: NA

Physical State: Granular Powder

Color: Tan/green tint

Odor: dusty or musty odor.

Section 4. Fire and Explosion Hazard Data

Flash Point: NA

Flammable Limits: NA

Extinguishing Media: H2O

Specific Fire Fighting Procedures: None

Unusual Fire and Explosion Hazards: None

Flammable limits: Not applicable.

Products of Combustion: Not applicable.

Fire Hazards in Presence of Various Substances: Not considered to be flammable.

Explosion Hazards in Presence of Various Substances: None

Fire Fighting Media and Instructions: Product will not burn, use appropriate extinguishing media for surrounding fires.

Special Remarks on Fire Hazards: Not available.

Special Remarks on Explosion Hazards: Not available.

Section 5. Health Hazard Data

Effects of Overexposure: Potential Allergen

Emergency First Aid Procedures: Rinse with Water.

Section 6. Reactivity Data

Stability: Stable

Incompatibility: NA

Hazardous Decomposition Products: NA

Hazardous Polymerization: Will not occur

Section 7. Spill or Leak Procedures

Steps to be taken in case material is released or spilled: Non-toxic, water wash
Waste Disposal Method: Landfill

Section 8. Special Protection Information

Respiratory Protection: Mist/Dust Mask
Ventilation: Local Exhaust
Special: NA
Protective Gloves: Latex or plastic
Eye Protection: Goggles
Other Protective Equipment: NA

Section 9. Special Precautions

Precautions to be taken in handling and storage

AVIOD INHALATION AND CONTACT WITH EYES
Other precautions – None

Section 10. Transportation Information

Product should be properly labeled for transport. The transport of this product is not regulated by the Dept. of Transportation (DOT) as it is not a Hazardous Material.

11. Toxicological Information

Routes of Entry: Inhalation. Ingestion.

ACUTE EFFECTS

Eye contact: Not a primary eye irritant. May cause mechanical irritation.
Skin contact: Mechanical skin irritation is possible but unlikely. Not absorbed through skin. Possible granuloma formation in open wounds (requires repeated, massive applications).
Sensitization: Not a sensitizer.
Ingestion: Not an ingestion hazard.
Inhalation: Inhalation of high concentrations may cause mechanical irritation and discomfort. Repeated exposure may cause chronic effects.
Remarks: No additional remark.

CHRONIC EFFECTS

CARCINOGENIC EFFECTS: See remarks.
MUTAGENIC EFFECTS: None known.
TERATOGENIC EFFECTS: None known.
DEVELOPMENTAL TOXICITY: None known.

Remarks TALC: Prolonged exposure to excessive airborne concentrations of talc can result in scarring of the lungs (pneumoconiosis) or of the covering of the lungs (pleural thickening). Pneumoconiosis may produce symptoms of cough or shortness of breath.

Pleural thickening usually produces no symptoms. Conditions can be determined by chest radiographic examination and pulmonary function test (FEV and FVC). Bronchial irritation may cause sputum production.

New York State talc has been tested as a whole and in parts in several animal studies with no carcinogenic association demonstrated. Epidemiologic studies in humans have been interpreted in conflicting ways with no clear evidence of an increased risk in lung tumors in association with exposure. Human, animal and in-vitro tests of basic product ingredients do not show a carcinogenic effect.

Excessive exposure to any dust may aggravate pre-existing respiratory conditions.