Material Safety Data Sheet

QuickRoots®

Sugar Beet Dry Planter Box

Section 1. Chemical and Company Identification.

Product Name: QuickRoots®

Formula: Dried living organism

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

Chemical Family: Bacteria/Fungi, Phylosilicates (structural)

CAS No: Not Applicable

Product Code: QRCPB

Formula: **Microbial Ingredients:**

Bacillus subtilis var. amyloliquefaciens: (7.96% w/w)…… 2.5x10^9 cfu/g

Trichoderma virens GI-3: *(9.59% w/w)…….. .5 x 10^8 cfu/g*

Other Ingredients:

Talc (35.0% w/w)

Inert Ingredients (47.45% 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/ m 3 from respirable fraction (ACGIH) See Section XVI (OSHA)
All other ingredients		60-80	A s particles not otherwise regulated (PNOR). TWA: 15 mg/ m 3 total dust

5 mg/ m 3 respirable dust

Pigments: NA
Catalyst: NA
Vehicle: NA
Solvents: NA
Additives: NA

Base Metal: NA
Alloys: NA
Metallic Coatings: NA
Filler Metal Plus Coating or Core Flux: 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 (H20=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: H20
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.