



Safety Data Sheet

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Seed Treatment

SECTION 1: IDENTIFICATION

Product Name: EXCEED Deep Roots® FC
Other Identification:
Recommended Use: Seed treatment/Soil amendment
Restrictions on Use: See product label for any restrictions on the use of this product.
Chemical Name: N/A – Bacteria/Fungi. Product containing dry live microorganisms that can quickly colonize and can grow with the root as the plant develops.
Distributed by: Visjon Biologics
 1092 S Graham ST
 Henrietta TX 76365

For Medical Exposure Concerns, Contact the Poison Control Center: 1-800-222-1222

SECTION 2: HAZARD(S) IDENTIFICATION

EMERGENCY OVERVIEW: Tan/Green powder

GHS Classification: May form combustible dust concentrations in air.
Signal Word: Warning
Hazard Statement(s): May form combustible dust concentrations in air.
Ingredients with unknown: None.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Weight %*
Trichoderma viride		10
Bacillus amyloliquefaciens		10
Other Ingredients	Confidential	80

*Ingredients not listed or listed with a weight % range are considered a trade secret and are withheld under 29 CFR 1910.1200(i).

SECTION 4: FIRST AID MEASURES

IF IN EYES:	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call poison control center or doctor for treatment advice
IF ON SKIN OR CLOTHING:	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
IF INHALED:	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice
IF INGESTED:	Rinse Mouth. Do not induce vomiting unless directed to do so by medical personnel. Give water to drink if victim completely conscious/alert. Never give anything by mouth to an unconscious person. Obtain emergency medical attention.





Note to Physician: Treat symptomatically

Most important symptoms/effects, acute and delayed: This product contains beneficial microorganisms that are considered to be non-allergenic, non-irritating and non-sensitizing when used as directed. Exposure to very high levels of airborne microbial spores may result in very rare respiratory impairments or cause an allergic reaction in sensitized individuals. Not expected to present a significant hazard under anticipated conditions of normal use. May cause slight irritation to skin. May cause slight irritation to eyes.

SECTION 5: FIRE-FIGHTING MEASURES

Flash Point	Not applicable.
Autoignition temperature:	Not determined
Suitable Extinguishing Media:	Use extinguishing media appropriate for surrounding fire. Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable Extinguishing Media:	Do not use a heavy water stream.
Hazardous Combustion Products:	Accumulation of airborne dusts may present an explosion hazard in the presence of an ignition source. Thermal decomposition generates Carbon dioxide and Carbon monoxide.
Special Protective Equipment & Precautions:	Wear NIOSH/MSHA approved self-contained breathing apparatus and full bunker gear. Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Dike area to prevent runoff and contamination of water sources. Dispose of fire control water later. Avoid breathing vapors; keep upwind.
Unusual Fire & Explosion Hazards:	None known

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions:	See Section 8 for personal protection equipment.
Environmental Precautions:	Do not allow spilled product to enter sewers or waterways.
Methods for Containment and Clean-up:	On land, sweep or shovel into suitable containers. Minimize generation of dust. Wash contaminated area with large amounts of water. Store away from other materials. Collect all waste in suitable and labelled containers and dispose according to local legislation.
Other Information:	None known

SECTION 7: HANDLING AND STORAGE

Handling:	Ensure adequate ventilation during handling and use. Avoid breathing dust. Avoid contact with eyes, skin and clothing. Immediately clean up spills that occur during handling. Keep containers closed when not in use. Practice good hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.
Storage:	Store in a secured area away from children, feed and food products. Store in original container only and in a cool, well-ventilated dry place above the minimum storage temperature. Do not contaminate water, food or feed by storage and disposal. Keep container tightly closed when not in use.





Incompatible materials: Acids. Bases. Oxidizing agents. Reducing agents. Disinfectants, fungicides and/or biocides may inactivate

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Ensure adequate ventilation. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Personal Protective Equipment: Protective goggles. Gloves. Protective clothing. Dust formation: dust mask. Avoid all unnecessary exposure.

Hand Protection: Wear protective gloves.

Eye Protection: Wear chemical goggles or safety glasses. Contact lenses are not protective eye devices.

Respiratory Protection: For most well-ventilated conditions, no respiratory protection should be needed. If airborne concentrations exceed permissible levels or if a pre-existing respiratory condition exists, use a NIOSH approved air-purifying respirator with cartridges/canisters approved for general particulates.

Other Protective Clothing: Wear long-sleeve shirt, long pants and shoes plus socks to prevent skin contact.

General Safety Measures: Never eat, drink, nor use tobacco in work areas. Practice good hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Tan/Green powder	Explosive Properties:	Not determined
Odor:	Earthy odor	Oxidizing Properties:	Not determined
Odor Threshold:	Not determined	Vapor Pressure:	Not applicable
pH:	Not determined	Relative Density:	Not determined
Melting /Freezing Point:	25° F (-4° C)	Relative Vapor Density at 20°C:	Not applicable
Boiling Point/Range:	Not determined	Solubility (water):	Not determined
Flash Point:	Not determined	Log Pow	Not determined
Evaporation Rate:	Not determined	Auto-ignition Temperature:	Not determined
Flammability:	Not determined	Decomposition Temperature:	Not determined
Explosive Limits:	Not determined	Viscosity:	Not applicable

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Stable.

Chemical Stability: Stable.

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Conditions to Avoid: Heat sources. Direct sunlight. Extremely high or low temperatures.

Incompatible Materials: Acids. Bases. Oxidizing Agents. Reducing Agents. Disinfectants, fungicides, and/or biocides may inactivate.

Hazardous Decomposition Products: Thermal decomposition will produce fumes, carbon monoxide and carbon dioxide.





SECTION 11: TOXICOLOGICAL INFORMATION

Symptoms of Exposure: Active ingredient is practically non-toxic, non-allergenic and non-pathogenic to mammals. Pre-existing medical conditions should not be aggravated by exposure. Repeated exposure to high concentrations of microbial proteins can cause allergic sensitization.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY DATA: This product contains microorganisms that occur(s) naturally.

- Fish Toxicity: No data available
Aquatic Invertebrate Toxicity: No data available
Aquatic Plant Toxicity: No data available
Avian Toxicity: No data available
Honeybee Toxicity: No data available

ENVIRONMENTAL EFFECTS:

- Persistence and Degradability: No data available
Bioaccumulation: No data available
Mobility: No data available
Other Adverse Effects: Effect on ozone layer. No additional information available.

SECTION 13: DISPOSAL CONSIDERATIONS

- Waste Disposal: Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.
Container Disposal: Triple rinse and recycle the container or dispose of in accordance with Federal, state and local laws and regulations.

SECTION 14: TRANSPORTATION INFORMATION

- DOT (Ground): This product is not regulated by the U.S. Department of Transportation as a hazardous material for ground shipment.
IMDG (Sea): This product is not regulated by the IMDG as a hazardous material for shipment by sea.
IATA (Air): This product is not regulated by the IATA as a hazardous material for shipment by air.

SECTION 15: REGULATORY INFORMATION

- TSCA Inventory: All components are listed or exempt from listing.
SARA Title III Information: Section 313 - This product contains a chemical or chemicals which are subject to the reporting





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requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:
National Regulations – This material is considered hazardous according to the criteria of the US OSHA Hazard
Communication Standard (29 CFR 1910.1200).

CALIFORNIA PROPOSITION 65:

Table with 3 columns: Chemical Name, CAS Number, Prop 65 Category(ies). Row 1: None listed, [blank], [blank]

SECTION 16: OTHER INFORMATION

Abbreviation and acronyms: CAS – Chemical Abstracts Service. GHS – Globally Harmonized System. HCS – Hazard Communication Standard. OSHA – Occupational Safety and Health Administration. PEL – Permissible Exposure Level. STEL – Short-Term Exposure Limit. TWA – Time Weighted Average.
Other information: None.
Full text of H-statements: Comb. Dust: Combustible Dust; H232: May form combustible dust concentrations in air

Disclaimer: The information contained in this MSDS is by way of general comment only. Because conditions of use, suitability of product, and application conditions are beyond the control of Visjon Biologics, this SDS does not offer any advice in respect to any product. The authors and Visjon Biologics hereby disclaim any liability to any person, property, or thing in respect of any consequence of anything done or omitted to be done by any person in reliance, whether wholly or in part, upon whole or part of the contents of this SDS.

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