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Exceed® Clay Rhizobium Inoculants

SECTION 1: IDENTIFICATION

Product Name: Exceed PreCoat pre-inoculant for Alfalfa, Exceed PreCoat pre-inoculant for True

Clover, Exceed PreCoat pre-inoculant for Alfalfa/True Clover, Exceed PreCoat pre-

inoculant for Bird's Foot

Other Identification: 6005, 6006, 6007, 6008, 6009

Recommended Use: Inoculant – See product label for additional information **Restrictions on Use:** See product label for any restrictions on the use of this product.

Chemical Name: N/A – Clay-based pre-inoculant products containing live culture of nitrogen-fixing

Rhizobium bacteria

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: White, odorless powder OSHA HCS CLASSIFICATION (29 CFR 1910.1200)

This product does not meet the regulatory definition of a hazardous chemical under 29 CFR 1910.1200. However, good industrial hygiene practices should be used in the manufacture and handling of the product.

Signal Word:None requiredHazard Statement(s):None requiredPrecautionary Statement(s):None required

Response: See section 4 for first aid measures **Storage:** See section 7 for storage information **Disposal:** See section 13 for disposal information

SECTION 3: COMPOSTION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Weight %*
Quartz**	14808-60-7	0.01

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

^{**}Small amounts of quartz are naturally occurring component of the carrier substrate. Contains naturally occurring bacteria on a carrier substrate of clay. See product label

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		

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IF ON SKIN OR	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20		
CLOTHING:	minutes. Call a poison control center or doctor for treatment advice.		
	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give		
IF INHALED:	artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center		
	or doctor for further treatment advice		
IF SWALLOWED:	Call a poison control center or doctor immediately for treatment advice. Have person sip		
IF SWALLOWED:	a glass of water if able to swallow. Do not give anything to an unconscious person		
Note to Physician: Treat symptomatically			
Most important symptoms/effects, acute and delayed: May cause eye, skin and/or respiratory tract irritation.			

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Use extinguishing measures that are appropriate to local circumstances

and the surrounding environment.

Unsuitable Extinguishing Media: None known

Hazardous Combustion Products: Thermal decomposition may include toxic and irritating gases.

Special Protective Equipment &

Wear NIOSH/MSHA approved self-contained breathing apparatus and **Precautions:** full bunker gear. 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:** Contain spilled product by diking area with sand or earth.

Vacuum, scoop or sweep up material and place in a container for disposal. Do **Methods for Clean-up:**

not place spilled material back in original container.

Other Information: None known

SECTION 7: HANDLING AND STORAGE

Handling: Ensure adequate ventilation during handling and use. 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.

Storage Temperature (Min/Max): Keep containers tightly closed in a dry, cool and well-ventilated place.

Store product between 40° and 77° F (4° and 25° C).

Product Incompatibilities: Some seed-applied chemicals, including fungicides, may be harmful to the

bacteria in this product. See product label for further information on the use of

fungicides or other chemicals in conjunction with seed treatment.

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines:

COMPONENT	OSHA PEL	ACGIH TLV	NIOSH REL
Quartz (CAS No. 14808-60-7	(vacated) TWA:0.1 mg/m3 respirable dust: (30)/(%SiO2 + 2) mg/m3 TWA total dust: (250)/(%SiO2 + 5) mppcf TWA respirable fraction: (10)/(%SiO2 + 2) mg/m3 TWA respirable fraction	TWA: 0.025 mg/m3 respirable fraction	IDLH: 50 mg/m3 respirable dust TWA: 0.05 mg/m3 respirable dust

Engineering Controls: Provide general or local exhaust ventilation systems to maintain airborne

concentrations below OSHA PELs or other specified exposure limits. Local exhaust

ventilation is preferred.

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.

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

devices.

Protective Gloves: Wear chemically protective gloves.

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

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:	Solid white powder	Upper/Lower Flammability Limits:	Not determined
Odor:	Odorless	Vapor Pressure:	Not determined
Odor Threshold:	Not determined	Vapor Density:	Not determined
pH:	7.7	Relative Density:	2.4 - 2.7
Melting /Freezing Point:	25 ° F (-4 ° C)	Solubility (water):	Insoluble
Boiling Point/Range:	Not determined	Partition Coefficient:	Not determined
Flash Point:	Not applicable	Auto-ignition Temperature:	Not determined
Evaporation Rate:	Not determined	Decomposition Temperature:	Not determined
Flammability:	Not applicable	Viscosity:	Not applicable

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SECTION 10: STABILITY AND REACTIVITY

Reactivity: None known

Chemical Stability: Stable under normal storage and handling conditions.

Possibility of Hazardous Reactions: Will not occur

Conditions to Avoid: Extreme temperatures

Incompatible Materials: Some seed-applied chemicals, including fungicides, may be harmful

to the bacteria in this product. See product label for further information on the use of fungicides or other chemicals in

conjunction with seed treatment.

Hazardous Decomposition Products: Thermal decomposition may include toxic and irritating gases.

SECTION 11: TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Eye contact, Skin contact, Inhalation, Ingestion **Symptoms of Exposure:** May cause eye, skin and/or respiratory tract irritation.

>5000 mg/kg (Estimated based upon component data)

Dermal LD₅₀: No data available **Inhalation LC**₅₀: No data available

Eye Irritation/Damage: Not anticipated to cause eye irritation based upon component data **Skin Corrosion/Irritation:** Not anticipated to cause skin irritation based upon component data

Skin Sensitization: Not a skin sensitizer

Chronic/Sub-chronic Toxicity: Chronic inhalation of quartz dust causes lung disease.

Mutagenicity:No data availableReproductive Toxicity:No data availableNeurotoxicity:No data availableTarget Organs:No data availableAspiration Hazard:No data available

Carcinogenicity: The chemical information below indicates whether each agency has listed

any ingredient as a carcinogen. However, the product as a whole has not

been tested.

Chemical Name	ACGIH	IARC	NTP	OSHA
Quartz (CAS No. 14808-60-7)	A2 -	Group 1 –	Known –	X - Present
	Suspected	Carcinogenic	Known Carcinogen	

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY DATA: This product contains bacterial strain(s) that occur(s) naturally in soil.

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

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ENVIRONMENTAL

EFFECTS:

Persistence and Degradability:No data availableBioaccumulation:No data availableMobility:No data availableOther Adverse Effects:No data 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. See pesticide label for full instructions on container

disposal.

RCRA Characteristics: It is the responsibility of the individual disposing of this product to determine the

RCRA classification and hazard status of the waste.

SECTION 14: TRANSPORTATION INFORMATION

DOT This product is not regulated by the U.S. Department of Transportation as a hazardous material

(**Ground**): 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 302 – Extremely hazardous substances: None listed **Section 311/312 – Hazard Categories:** None

Section 313 – This product contains a chemical or chemicals which are subject to the reporting

requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS Number	Weight %
None listed		

CERCLA – This product contains the following chemicals which have a reportable quantity (RQ) under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA):

Chemical Name	CAS Number	RQ	Quantity of Finished Product
None listed			

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CALIFORNIA PROPOSITION 65:

Chemical Name	CAS Number	Prop 65 Category(ies)
Quartz	14808-60-7	Carcinogen

U.S. STATE RIGHT-TO-KNOW REGULATIONS:

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Quartz	X	X	X

SECTION 16: OTHER INFORMATION

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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Revision Note: Melting/Freezing Point added

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