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Exceed® Custom Liquid

SECTION 1: IDENTIFICATION

Product Name: Exceed® Custom Liquid - Peanut

Other Identification: 2008

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 – mixture containing 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: Liquid inoculant products containing live culture of nitrogen fixing rhizobium bacteria.

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 required **Hazard Statement(s):** None required **Precautionary 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 %
No hazardous components		

^{*}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		

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tearing.

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	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 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: Mild eye irritation including redness, itching and		

SECTION 5: FIRE-FIGHTING MEASURES

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

and the surrounding environment.

None known **Unsuitable Extinguishing Media:**

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.

> Cover contained spill with an inert absorbent material such as sand, vermiculite or other appropriate material. Vacuum, scoop or sweep up material and place in

Methods for Clean-up: a container for disposal. Do 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.

Store in a secured area away from children, feed and food products. Store in original container **Storage:**

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 Some seed-applied chemicals, including fungicides, may be harmful to the bacteria in this

Incompatibilities: 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
Nuisance particulate (liquefied mist)		10 mg/m ³ TWA	

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

using this material, especially before eating, drinking, smoking, using the toilet,

or applying cosmetics.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Yellow to brown	Upper/Lower Flammability Limits:	Not determined
	liquid		
Odor:	Mild	Vapor Pressure:	Not determined
Odor Threshold:	Not determined	Vapor Density:	Not determined
pH:	6.5-7.4	Relative Density:	Not determined
Melting /Freezing Point:	25 ° F (-4 ° C)	Solubility (water):	Not determined
Boiling Point/Range:	216 ° F (102 ° C)	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 determined

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

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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: Mild eye irritation including redness, itching and tearing. >5000 mg/kg (Estimated based upon component data) >5000 mg/kg (Estimated based upon component data)

Inhalation LC₅₀: No data available

Eye Irritation/Damage:

Skin Corrosion/Irritation:

Not anticipated to cause eye irritation based upon component data

Not anticipated to cause skin irritation based upon component data

Not anticipated to cause skin sensitization based upon component data

Chronic/Sub-chronic Toxicity: No data available Mutagenicity: No data available Reproductive Toxicity: No data available Neurotoxicity: No data available Target Organs: No data available Aspiration Hazard: No data available

Carcinogenicity:

Chemical Name	ACGIH	IARC	NTP	OSHA
None listed				

SECTION 12: ECOLOGICAL INFORMATION

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

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 availableBioaccumulation:No data availableMobility:No data availableOther Adverse Effects:No data available

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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			

CALIFORNIA PROPOSITION 65:

Chemical Name	CAS Number	Prop 65 Category(ies)
None listed		

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

Chemical Name	New Jersey	Massachusetts	Pennsylvania
None listed			

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SECTION 16: OTHER INFORMATION

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Revision Date: July 26, 2022

Document Superseded: March 16, 2022 (Combined Soybean, Garbanzo and Peanut Custom Liquids)

Revision Note: Made this separate SDS for Peanut Custom Liquid

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Seed Treatment

Section 1 - Chemical Product and Company Identification

Product Name: Exceed® SAR Plant Defense Booster

CAS # 9012-76-4

Product Use: Insecticide

Company Identification: Visjon Biologics

1092 S Graham ST Henrietta TX 76365

Emergency call:1-800-222-1222

Section 2 - Hazards identification

Classification of substance:



GHS07

Signal Word: Warning

Hazard-determined components of labeling: Chitosan

Hazard statements:
Irritant if inhaled
Cause eye irritation
May be irritating in contact with skin
May be harmful if swallowed
Precautionary Statements:

Prevention: Avoid breathing mist spray.

Use in a well-ventilated area.

Wash hands thoroughly after handling.

Response:

If Inhaled: Remove person to fresh air and keep at rest in a position comfortable for breathing. Wash contaminated clothing before reuse. Call a poison center or doctor/physician if you feel unwell.

If in Eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

If Swallowed: Call a poison center or doctor/physician if you feel unwell.

If on Skin: Remove all contaminated clothing. Rinse with water. If skin irritation occurs seek medical advice/attention.

Disposal: Dispose of contents and containers in accordance with local, regional, federal and international regulations.





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Section 3 - Composition/information of ingredient

Chemical Name	Trade names and Synonyms	Percent	CAS No.
Poly-D-glucosamine	Chitosan	0.25%	9012-76-4
Other Ingredients	Non-Toxic and non-hazardous*	99.75%	

^{*}Proprietary components.

Section 4 - First Aid Measures

Symptoms	The material is not a significant health hazard when used according to our instructions. Small quantities entering the eyes, may be slightly irritating; small quantities entering the mouth or being swallowed are not considered to be significant. The material may dry the skin if chronic (daily exposures) are encountered.	
Eyes:	May cause irritation do not rub eyes. Hold eye open and rinse slowly and gently with for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.	
Skin:	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes.	
Inhalation:	May cause irritation. Remove to fresh air. If a person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.	
Note to Physicians Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact the Poison Control Center 800-222-1222.		

Section 5 - Fire Fighting Measure

Extinguishing media: Use dry powder or sand, carbon dioxide, water fog, foam, halogenated agents, or appropriate surrounding fire and materials. Avoid use of water jets for extinguishing. Using dry chemical, foam or carbon dioxide extinguishing media.

Fire and Explosive Hazards: Non-flammable liquid.

Special fire fighting procedures: Fireman should wear complete fire protection clothes and shoes. Evacuate nonessential personnel from the area to prevent human exposure to fire.

Reference to other sections:

See Section 10 for decomposition products.





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Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Wear approved protective clothing. Allow work against the wind and remove all people upwind.

Environmental precautions: Not known

Methods and material for containment and cleaning up:

In case small leak or spill: contain material using sand or other non-combustible or other absorbents to absorb spill, and dispose as waste.

In case large leak or spill: Wear appropriate protective clothing and wear nitrile (household) gloves. Shut off source of leak. Material can be disposed using city sanitary sewers.

Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

Section 7 - Handling and Storage

Handling

Precautions for safe handling: Do not inhale the steam prolonged or repeated. Use product only in well-ventilated place. Do not inhale the steam prolonged or repeated. Users should wash hands before eating and drinking. Do not contaminate water, food, or feed by storage. Standard household ventilation should be adequate to control human exposures to this product.

Conditions for Safe Storage, including any incompatibilities

Storage: Do not contaminate water, food, or feed by storage. Keep container closed in a fresh and dry room when not in use. Avoid contact with water.

Requirements to be met by storerooms and receptacles: Do not store near food or feed. Protect from freezing. **Reference to other sections**:

See Section 10 for incompatibilities

See Section 6 for accidental release measure

Section 8 - Contact Controls and Personal Protection

Max allowed concentration: No Data Way of measurement: No Data

Engineering Control: Use adequate ventilation to keep risk of inhalation low.

Personal Protection

Respirators: Not normally needed for this product when diluted in water for end-use application.

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles such as splash resistant safety googles with a secondary protection face shield, although not normally needed

Body: Wear appropriate chemical resistant overalls and rubber boots and rubber gloves.

Hands: Wear appropriate gloves when needed, such as nitrile.

General protective and hygienic measures: Discard clothing other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Wash contaminated clothing before reuse. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. No smoking, eating or drinking during handling. Change to clean clothes after washing.





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Section 9 - Physical and Chemical Properties

Information on basic physical and chemical properties

General Information:

Appearance and Physical State: Fluid, slight odor

Color: Light yellow-brown

pH Value: 5 - 7

Viscosity: Not available

Vapor Pressure (25 °C): 121 mmHg

Melting point: liquid at room temperature

Boiling Point: 105°C

Specific Gravity: 1.01 g/cc @ 25°C

Comparative concentration (water: 1): Not available Quantity of heat in burning (KJ/mol): Not available

Density (g/cm³): 1.0 at 24°C

Critical pressure (Mpa): Not available Critical temperature: Not available

Flash point (C): None Flammable Limits: None

Autoignition Temperature: None **Burning temperature (C):** Not available

Explosion: None

Partition Coefficient: Not available **Solubility:** Soluble in water lightly acid

Section 10 - Stability and Reactivity

Chemical Stability: This material is stable at the normal storage conditions.

Incompatible to Avoid: None expected Conditions to Avoid: Not available Decomposition Products: None expected Hazardous Polymerization: Will not occur

Reference to other sections:

See Section 5 for static discharge potential

Section 11 - Toxicological Information

Acute Toxicity:

LD/LC50 values that are relevant for classification:

Eyes: Moderate Irritant Oral: $LD_{50} > 5,000 \text{ mg/kg}$ Inhalation: $LC_{50} > 2 \text{ mg/L}$ Dermal: $LD_{50} > 5,000 \text{ mg/kg}$ Primary irritant effect:

On eyes: Minimally irritating to the eye





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On the skin: Slight irritating to skin. Irritation can develop following repeated and/or prolonged contact with human skin.

Respiratory sensitization: Single exposure to mist is not likely to be hazardous. Vapors are unlikely due to

physical properties.

Skin Sensitization: Product is not considered a contact sensitizer. **Germ Cell Mutagenicity:** The chromosome aberration test was negative.

Carcinogenicity: This product has negative Ames test results.

Reproductive Toxicity: Not available STOT-Single Exposure: Not available STOT-Repeated Exposure: Not available Aspiration Hazard: Not available

Section 12 - Ecological Data

Eco-toxicity: Not an environmental toxin **Water Pollution Control Act:** Not determined

Section 13 - Disposal Considerations

Waste Disposal: Do not contaminate water, food, or feed by disposal. Dispose of waste in city sewer system. Improper disposal of excess pesticide, spray mixture, or rinsate is violation of Federal Law.

Container Disposal: Do not distribute, make available, furnish or reuse empty containers. Triple rinse (or equivalent), then offer for recycling or reconditioning if container reuse is permitted. If container reuse is prohibited, puncture metal containers and dispose of in a sanitary landfill, or by other approved State and local authorities, If burned, stay out of smoke.

Section 14 - Transport Information

US DOT

This product is not regulated for domestic shipment in the United States.

IMDG/IATA:

Proper Shipping Name: environmentally hazard substance liquid, NOS (chitosan) **Hazard Class or Division:** 9

Identification Number: UN3082

Packaging Group: III





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Section 15 - Regulatory Data

TSCA (Toxic Substance Control Act) Regulations, 40 CFR 710: This product is a pesticide and is exempt from TSCA regulation.

CERLA and SARA Regulations (40CFR 355, 370, and 372): This product does not contain any chemicals subject to the reporting requirements of SARA Section 313.

NIOSH/RTECS: unknown (FM6125000)

German MAKL: None NIOSH REL: None ACGIH TLV: None OSHA PEL: None

Hazard Data	FIFRA Classification/Typical Hazard Labeling, as outlined in	OSHA HCS Requirement for
	EPA Label Review Manual	Section 2 of SDS
Signal Word	CAUTION	WARNING
Acute Toxicity, oral LD ₅₀	(Category IV) Not labeled	(Category 5) May be harmful if swallowed
Acute Toxicity, dermal LD ₅₀	(Category IV) Not labeled	(Category 5) May be harmful in contact with skin
Acute Toxicity, inhalation LD ₅₀	(Category IV) Not labeled	(Category 4) Exclamation mark Harmful if inhaled
Skin Irritation	(Category IV) Not labeled	Not classified
Eye Irritation	(Category III) Causes moderate eye irritation	(Category 2B) Cause eye irritation
Sensitization	Not labeled	Not classified
Germ Cell Mutagenicity	Not labeled	Not classified
Carcinogenicity	Not labeled	Not classified
Reproductive/developmental Toxicity	Not labeled	Not classified
Specific target organ toxicity, single exposure	Not labeled	Not classified
Specific target organ toxicity, repeated exposure	Not labeled	Not classified
Aspiration	Not labeled	Not classified
Environmental (aquatic) toxicity	This product is not classified as environmental toxic	Not within OSHA's jurisdiction, therefore not required on SDS.

FIFRA Classification: This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also included other important information, including direction for use. Following is the hazard information as required on the pesticide label:





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CAUTION

Cause moderate eye irritation Avoid contact with eyes Wash thoroughly with soap and water after handling

GHS labeling elements:

The substance is classified and labeled according to the Globally Harmonized System (GHS): **Hazard pictograms:**



Signal Word: Warning

Hazard-determined components of labeling: Chitosan

Hazard statements:
Harmful if inhaled
Cause eye irritation
May be harmful in contact with skin

May be harmful if swallowed

Precautionary Statements:

Prevention: Avoid breathing mist spray.

Use in a well-ventilated area.

Wash hands thoroughly after handling.

Response:

If Inhaled: Remove person to fresh air and keep at rest in a position comfortable for breathing. Wash contaminated clothing before reuse. Call a poison center or doctor/physician if you feel unwell.

If in Eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

If Swallowed: Call a poison center or doctor/physician if you feel unwell.

If on Skin: Remove all contaminated clothing. Rinse with water. If skin irritation occurs seek medical advice/attention.

Disposal: Dispose of contents and containers in accordance with local, regional, federal and international regulations.

Section 16 - Additional information

EXCEED^{TMSAR} Plant Defense Booster is a trademark of Vision Biologics

Reference: The information contained herein is believed to be accurate. It is provided independently of any sale of the product for purpose of hazard communication. It is not intended to constitute performance information concerning the product. No express warranty, or implied warranty of merchantability or fitness for a particular purpose is made with respect to the product or the information contained herein. This Safety Data Sheet was compiled with data and information from the following source: KOSHA, NITE, ESIS, NLM, SIDS, IPCS

SDS Date: July 26, 2022

Supersedes SDS Dated: September 8, 2021



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