



# Safety Data Sheet

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Exceed® Custom Liquid

## SECTION 1: IDENTIFICATION

**Product Name:** Exceed® Custom Liquid  
**Other Identification:** 1001, 1002, 1017, 2008, 4004, 4007  
**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: COMPOSITION/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

<b>IF IN EYES:</b>	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
<b>IF ON SKIN OR CLOTHING:</b>	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.
<b>IF INHALED:</b>	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give

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	artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice
<b>IF SWALLOWED:</b>	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
<b>Note to Physician:</b> Treat symptomatically	
<b>Most important symptoms/effects, acute and delayed:</b> Mild eye irritation including redness, itching and tearing.	

## 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 & Precautions:** Wear NIOSH/MSHA approved self-contained breathing apparatus and 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 a container for disposal. Do not place spilled material back in original container.

**Methods for Clean-up:**

**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
Nuisance particulate (liquefied mist)		10 mg/m <sup>3</sup> 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

<b>Appearance:</b>	Yellow to brown liquid	<b>Upper/Lower Flammability Limits:</b>	Not determined
<b>Odor:</b>	Mild	<b>Vapor Pressure:</b>	Not determined
<b>Odor Threshold:</b>	Not determined	<b>Vapor Density:</b>	Not determined
<b>pH:</b>	6.5-7.4	<b>Relative Density:</b>	Not determined
<b>Melting /Freezing Point:</b>	25 ° F (-4 ° C)	<b>Solubility (water):</b>	Not determined
<b>Boiling Point/Range:</b>	216 ° F (102 ° C)	<b>Partition Coefficient:</b>	Not determined
<b>Flash Point:</b>	Not applicable	<b>Auto-ignition Temperature:</b>	Not determined
<b>Evaporation Rate:</b>	Not determined	<b>Decomposition Temperature:</b>	Not determined
<b>Flammability:</b>	Not applicable	<b>Viscosity:</b>	Not determined

## SECTION 10: STABILITY AND REACTIVITY

<b>Reactivity:</b>	None known
<b>Chemical Stability:</b>	Stable under normal storage and handling conditions.
<b>Possibility of Hazardous Reactions:</b>	Will not occur
<b>Conditions to Avoid:</b>	Extreme temperatures
<b>Incompatible Materials:</b>	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.  
**Oral LD<sub>50</sub>:** >5000 mg/kg (Estimated based upon component data)  
**Dermal LD<sub>50</sub>:** >5000 mg/kg (Estimated based upon component data)  
**Inhalation LC<sub>50</sub>:** 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 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 available  
**Bioaccumulation:** No data available  
**Mobility:** No data available  
**Other 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 (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 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

<b>NFPA</b>	<b>Health Hazards</b> 1	<b>Flammability</b> 0	<b>Instability</b> 0	<b>Special Hazards</b> – None
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**Revision Date:** March 16, 2022  
**Document Superseded:** July 1, 2021  
**Revision Note:** Added Item 2008 (had previously been removed)





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Exceed® SAR Plus

## SECTION 1: IDENTIFICATION

**Product Name:** Exceed SAR Plus  
**EPA Reg. No.** 91967-1  
**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  
**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:** Yellow to orange liquid

### 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: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Weight %
Chitosan	9012-76-4	0.05

\*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

<b>IF IN EYES:</b>	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
<b>IF ON SKIN OR CLOTHING:</b>	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.





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<b>IF INHALED:</b>	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
<b>IF SWALLOWED:</b>	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
<b>Note to Physician:</b> Treat symptomatically	
<b>Most important symptoms/effects, acute and delayed:</b> Mild eye irritation including redness, itching and tearing.	

## 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 & Precautions:** Wear NIOSH/MSHA approved self-contained breathing apparatus and 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 a container for disposal. Do not place spilled material back in original container.

**Methods for Clean-up:**

**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):** Not determined

**Product Incompatibilities:** Some see-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
Nuisance particulate (liquefied mist)		10 mg/m <sup>3</sup> 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

<b>Appearance:</b>	Yellow to orange liquid	<b>Upper/Lower Flammability Limits:</b>	Not determined
<b>Odor:</b>	Not determined	<b>Vapor Pressure:</b>	Not determined
<b>Odor Threshold:</b>	Not determined	<b>Vapor Density:</b>	Not determined
<b>pH:</b>	6.8 – 7.5	<b>Relative Density:</b>	1.03 (typical)
<b>Melting /Freezing Point:</b>	25 ° F (-4 ° C)	<b>Solubility (water):</b>	Not determined
<b>Boiling Point/Range:</b>	216 ° F (102 ° C)	<b>Partition Coefficient:</b>	Not determined
<b>Flash Point:</b>	Not applicable	<b>Auto-ignition Temperature:</b>	Not determined
<b>Evaporation Rate:</b>	Not determined	<b>Decomposition Temperature:</b>	Not determined
<b>Flammability:</b>	Not applicable	<b>Viscosity:</b>	Not determined

## SECTION 10: STABILITY AND REACTIVITY

<b>Reactivity:</b>	None known
<b>Chemical Stability:</b>	Stable under normal storage and handling conditions.
<b>Possibility of Hazardous Reactions:</b>	Will not occur
<b>Conditions to Avoid:</b>	Extreme temperatures
<b>Incompatible Materials:</b>	Strong acids and metals
<b>Hazardous Decomposition Products:</b>	Thermal decomposition may include toxic and irritating gases.





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## 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.
- Oral LD<sub>50</sub>:** >5000 mg/kg (Estimated based upon component data)
- Dermal LD<sub>50</sub>:** >5000 mg/kg (Estimated based upon component data)
- Inhalation LC<sub>50</sub>:** >5.0 mg/L (Estimated based upon component data)
- 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 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:** No data available

Chemical Name	ACGIH	IARC	NTP	OSHA
None listed				

## SECTION 12: ECOLOGICAL INFORMATION

### ECOTOXICITY DATA:

- 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:** 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 (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**

**EPA Labeling Information (FIFRA):** This chemical is a pesticide product registered by the 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 and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

**CAUTION:** Causes moderate eye irritation. Avoid contact with eyes. Wash thoroughly with soap and water after handling.

**TSCA Inventory:** This product is exempt from TSCA as it is solely for FIFRA regulated use.

**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

<b>NFPA</b>	<b>Health Hazards</b> 1	<b>Flammability</b> 0	<b>Instability</b> 0	<b>Special Hazards</b> – None
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**Revision Date:** March 15, 2022  
**Document Superseded:** July 1, 2021  
**Revision Note:** Melting/Freezing and Boiling Point added.

