

Rethink Tomorrow	Date of issue: 07/22/2019 Version: 2.0
SECTION 1 : Identification of t	he substance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Mixture
Trade name	: Cell-Tech <sup>®</sup> liquid nitrogen-fixing inoculant for soybean
1.2. Relevant identified uses of t	he substance or mixture and uses advised against
Use of the substance/mixture	: Rhizobium Inoculant
1.3. Details of the supplier of the	safety data sheet
Novozymes BioAg	
3101 West Custer Ave Milwaukee, WI 53209 - USA	
Information Telephone Number	: 1-888-744-5662
	Available 24 hours a day 7 days a week from April 1st to June 15th, otherwise available from 8:00am to 4:30pm CST, Monday to Friday.
1.4. Emergency telephone numb	er
Emergency number	: 1-800-424-9300 (Chemtrec) 24 hours every day
SECTION 2 : Hazards identific	ation
2.1. Classification of the substar	
GHS-US classification	
Not classified	
2.2. Label elements	
GHS-US labelling	
No labelling applicable	
2.3. Other hazards	
No additional information available	
<b>SECTION 3 : Composition/info</b>	rmation on ingredients
3.1. Substance	
Not applicable	
3.2. Mixture	
Active ingredients: Bradyrhizobium japonicum	: < 1% w/w
The specific chemical identity and/or cor	centration range is being withheld because it is trade secret information of Novozymes BioAg.
This mixture does not contain any substa	ances to be mentioned according to the criteria of Appendix D to Regulations 29 CFR 1910.1200.
<b>SECTION 4 : First aid measure</b>	es
4.1. Description of first aid meas	ures
First-aid measures general	<ul> <li>Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).</li> </ul>
First-aid measures after inhalation	: Allow breathing of fresh air. Allow the victim to rest. In all cases of doubt, or when symptoms persist, seek medical advice.
First-aid measures after skin contact	<ul> <li>Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.</li> </ul>
First-aid measures after eye contact	<ul> <li>Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.</li> </ul>
First-aid measures after ingestion	: Rinse mouth. Give water to drink if victim completely conscious/alert. Do NOT induce vomiting unless directed to do so by medical personnel. Get medical advice/attention if you feel unwell.

4.2. Most important symptoms and effects,	both acute and delayed
Symptoms/injuries :	Not expected to present a significant hazard under anticipated conditions of normal use. This product contains beneficial microorganisms. Novozymes exclusively uses non-pathogenic 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.
Symptoms/injuries after eye contact :	Contact may cause eye irritation.
4.3. Indication of any immediate medical at	tention and special treatment needed
Treat symptomatically.	
SECTION 5 : Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media :	Foam. Dry powder. Carbon dioxide. Water spray. Sand. Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media :	Do not use a heavy water stream.
5.2. Special hazards arising from the subst	ance or mixture
Fire hazard :	None known.
Explosion hazard :	None known.
Reactivity :	Thermal decomposition generates : Carbon monoxide. Carbon dioxide. hydrocarbons.
5.3. Advice for firefighters	
Firefighting instructions :	Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protective equipment for firefighters :	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
SECTION 6 : Accidental release measu	ires
6.1. Personal precautions, protective equip	oment and emergency procedures
6.1.1. For non-emergency personnel	
	Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment :	Equip cleanup crew with proper protection.
Emergency procedures :	Ventilate area.
6.2. Environmental precautions	
Prevent entry to sewers and public waters. Notify a	uthorities if liquid enters sewers or public waters.
6.3. Methods and material for containment	and cleaning up
Methods for cleaning up :	Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials. Collect all waste in suitable and labelled containers and dispose according to local legislation.
6.4. Reference to other sections	
No additional information available	
SECTION 7 : Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling :	Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Avoid contact with skin, eyes and clothing.
Hygiene measures :	Handle in accordance with good industrial hygiene and safety practices. Wash hands thoroughly after handling.
7.2. Conditions for safe storage, including	any incompatibilities
Storage conditions :	Keep only in the original container in a cool, well ventilated place away from: Direct sunlight, Extremely high or low temperatures, Heat sources. Keep container closed when not in use. Do not freeze. Keep away from food, drink and animal feeding stuffs.
Incompatible materials :	Acids. Bases. Oxidizing agents. Reducing agents. Disinfectants, fungicides, and/or biocides may inactivate.
Storage temperature :	4 - 12 °C (39°F-54°F)
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#### 7.3. Specific end use(s)

No additional information available

### **SECTION 8 : Exposure controls/personal protection**

#### 8.1. **Control parameters**

No additional information available

#### 8.2. **Exposure controls**

Appropriate engineering controls

Personal protective equipment

: Ensure adequate ventilation. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. : Avoid all unnecessary exposure. Protective goggles. Protective clothing. Gloves.



Other information

- Wear protective gloves. :
  - Chemical goggles or safety glasses.
  - Wear suitable protective clothing.
  - Where exposure through inhalation may occur from use, approved respiratory protection equipment is recommended.
  - : Do not eat, drink or smoke during use.

### **SECTION 9 : Physical and chemical properties**

9.1. Information on basic physical and	d chemical properties
Physical state	: Liquid
Appearance	: Opaque liquid
Colour	: Opaque
Odour	: Slight
Odour threshold	: No data available
рН	: 6.5 - 7.4
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: No data available
Freezing point	: -4 °C (25°F)
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available.
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: Not applicable

9.2. **Other information** 

No additional information available

<b>SECTION 10 : Stability and reactive</b>	vity	
10.1. Reactivity		
Stable		
10.2. Chemical stability		
Stable		
10.3. Possibility of hazardous reaction	ns	
Hazardous polymerization will not occur		
10.4. Conditions to avoid		
Direct sunlight. Extremely high or low temper	ratures. heat sources.	
10.5. Incompatible materials		
Acids. Bases. oxidizing agents. Reducing ag	ents. Disinfectants, fungicides, and/or biocides may inactivate.	
10.6. Hazardous decomposition produ	ucts	
Thermal decomposition generates : Carbon	oxides (CO, CO <sub>2</sub> ). hydrocarbons.	
<b>SECTION 11 : Toxicological infor</b>	mation	
11.1. Information on toxicological effe		
Acute toxicity	: Not classified	
	(Based on available data, the classification criteria are not met)	
Skin corrosion/irritation	: Not classified	
	(Based on available data, the classification criteria are not met) pH: 6.5 - 7.4	
Serious eye damage/irritation	: Not classified	
Conodo oyo damago, imalion	(Based on available data, the classification criteria are not met)	
	pH: 6.5 - 7.4	
Respiratory or skin sensitisation	: Not classified	
	(Based on available data, the classification criteria are not met)	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	(Based on available data, the classification criteria are not met) : Not classified	
Carcinogenicity	(Based on available data, the classification criteria are not met)	
Reproductive toxicity	: Not classified	
reproductive toxicity	(Based on available data, the classification criteria are not met)	
Specific target organ toxicity (single exposure		
	(Based on available data, the classification criteria are not met)	
Specific target organ toxicity (repeated	: Not classified	
exposure)	(Based on available data, the classification criteria are not met)	
Aspiration hazard	: Not classified	
	(Based on available data, the classification criteria are not met)	
Symptoms/injuries after eye contact	: Contact may cause eye irritation.	
SECTION 12 : Ecological information	tion	
12.1. Toxicity		
No additional information available		
12.2. Persistence and degradability		
Cell-Tech® Liquid Soybean		
Persistence and degradability	Not established	
12.3. Bioaccumulative potential		
Cell-Tech <sup>®</sup> Liquid Soybean		
Bioaccumulative potential	Not established	
12.4. Mobility in soil		
No additional information available		
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12.5. Other adverse effects	
Effect on ozone layer	: No additional information available
Effect on the global warming	: No additional information available
Other information	: Avoid release to the environment.
SECTION 13 : Disposal consideration	ations
13.1. Waste treatment methods	· Dianaga in a sofe manner in assertioned with level/national regulations
Waste disposal recommendations Ecology - waste materials	<ul> <li>Dispose in a safe manner in accordance with local/national regulations.</li> <li>Avoid release to the environment.</li> </ul>
SECTION 14 : Transport informat	lion
Not regulated for transport	
Additional information	
Other information	: No supplementary information available.
ADR	
No additional information available	
Transport by sea	
No additional information available	
Air transport	
No additional information available	
SECTION 15 : Regulatory information	ation
15.1. US Federal regulations	
All components of this product are listed, o Substances Control Act (TSCA) inventory	r excluded from listing, on the United States Environmental Protection Agency Toxic
	toxic chemical or chemicals in excess of the applicable concentration as specified in 40 quirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act
15.2. International regulations	
No additional information available	
15.2.2. National regulations	
Cell-Tech <sup>®</sup> Liquid Soybean	
This material is not considered hazardous	according to the criteria of the US OSHA Hazard Communication Standard (29 CFR 1910.1200).
15.3. US State regulations	
U U	loes not contain any substances known to the state of California to cause cancer
SECTION 16 : Other information	
Abbreviations and acronyms	<ul> <li>CAS - Chemical Abstracts Service. GHS - Globally Harmonised System. HCS - Hazard Communication Standard. OSHA - Occupational Safety and Health Administration. PEL- Permissible Exposure Level. STEL- Short-Term Exposure Limit. TWA- Time Weighted Average.</li> </ul>
Other information	: None

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NFPA health hazard	: 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.
NFPA fire hazard	: 0 - Materials that will not burn.
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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