

Optimize® FXC Component A

Safety Data Sheet Date of issue: 09/27/2021 Version: 1.0

SECTION 1: Identification of the subs	tance/mixture and of the company/undertaking		
1.1. Product identifier			
	: Mixture		
	: Optimize [®] FXC Component A		
	Ince or mixture and uses advised against		
Use of the substance/mixture	: Seed Treatment for use with Optimize FXC Component B inoculant		
1.3. Details of the supplier of the safety da	ata 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 number			
Emergency number	: 1-800-424-9300 (Chemtrec) 24 hours every day		
SECTION 2: Hazards identification			
2.1. Classification of the substance or mix	ture		
GHS-US classification			
Not classified			
2.2. Label elements			
GHS-US labelling			
No labelling applicable			
2.3. Other hazards			
No additional information available			
2.4. Unknown acute toxicity (GHS-US)			
Not applicable			
SECTION 3: Composition/information	on ingredients		
3.1. Substances			
Not applicable			
3.2. Mixture			
Active Ingredient:			
Lipo-chitooligosaccharide (LCO) (CAS 163181-92-	8) : 2.66x10 ⁻⁵ %		
This mixture does not contain any substances to b	a mantianed according to the criteria of Annandix D to Regulations 20 CEP 1010 1200		
This mixture does not contain any substances to be mentioned according to the criteria of Appendix D to Regulations 29 CFR 1910.1200.			
SECTION 4: First aid measures			
4.1. Description of first aid measures			
First-aid measures general	 Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). 		
First-aid measures after inhalation	: Allow victim to breathe fresh air. Allow the victim to rest. If exposure symptoms persist, seek medical attention.		
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.		
First-aid measures after eye contact	 Immediately flush eyes thoroughly with water for at least 15 minutes. Obtain medical attention if pain, blinking or redness persist. 		
First-aid measures after ingestion	 Rinse mouth. Do NOT induce vomiting. Give water to drink if victim completely conscious/alert. Seek medical attention if ill effect or irritation develops. Product contains a biocide (<1%). 		
4.2. Most important symptoms and effects			
	: Not expected to present a significant hazard under anticipated conditions of normal use.		
	: May cause skin irritation.		
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Symptoms/injuries after eye contact	: Contact may cause eye irritation.
Symptoms/injuries after ingestion	: May be harmful if swallowed.
.3. Indication of any immediate medica	I attention and special treatment needed
reat symptomatically	
SECTION 5: Firefighting measures	
i.1. Extinguishing media	
Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Insuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from the su	
Reactivity	: Thermal decomposition generates : oxides of carbon.
3. Advice for firefighters	. Here water entry, or fee for eacling expected containers. Exercise equition when fighting envi
irefighting 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	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release meas	sures
.1. Personal precautions, protective eq	uipment and emergency procedures
5.1.1. For non-emergency personnel	
mergency procedures	: Evacuate unnecessary personnel.
5.1.2. For emergency responders	
Protective equipment	: Equip cleanup crew with proper protection.
mergency procedures	: Ventilate area.
2. Environmental precautions	
revent entry to sewers and public waters. Notify	y authorities if liquid enters sewers or public waters.
.3. Methods and material for containme	ent and cleaning up
<i>l</i> ethods 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.
.4. Reference to other sections	
No additional information available	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	Provide good ventilation in process area to prevent formation of vapour. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
łygiene measures	: Wash hands thoroughly after handling. Handle in accordance with good industrial hygiene and safety practices.
2. Conditions for safe storage, including	
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. Keep away from food, drink and animal feeding stuffs.
ncompatible materials	: None known.
7.3. Specific end use(s)	
lo additional information available	
SECTION 8: Exposure controls/pers	onal protection
3.1. Control parameters	
No additional information available	
Appropriate engineering controls	: Ensure adequate ventilation. Emergency eye wash fountains and safety showers should be
Proprieto organooning oonalolo	available in the immediate vicinity of any potential exposure.

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Personal protective equipment	: Avoid all unnecessary exposure. Protective goggles. Protective clothing. Gloves.	
Hand protection	: Wear protective gloves.	
Eye protection	: Chemical goggles or safety glasses.	
Skin and body protection	: Wear suitable protective clothing.	
Respiratory protection	: Where exposure through inhalation may occur from use, approved respiratory prote equipment is recommended.	ection
Other information	: Do not eat, drink or smoke during use.	
SECTION 9: Physical and chemica	roperties	
9.1. Information on basic physical and	nemical properties	
Physical state	: Liquid	
Appearance	: Colourless liquid	
Colour	: Colourless	
Odour	: Odorless	
Odour threshold	: No data available	
PH	: 6.85 at 23°C (1% solution)	
Relative evaporation rate (butyl acetate=1)	: No data available	
Melting point	: Not applicable	
Freezing point	: 0 °C (32 ° F)	
Boiling point	: 100 °C (212 ° F)	
Flash point	: None	
Auto-ignition temperature	: No data available	
Decomposition temperature	: No data available	
Flammability (solid, gas)	: Did not flash under test conditions	
Vapour pressure	: Product is an aqueous solution and >99% water; therefore, assumed to have sam pressure as water	ie vapor
Relative vapour density at 20 °C	: No data available	
Relative density	: 0.9994 g/mL	
Solubility	: Water: Not applicable	
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		

SECTION 10: Stability and reactivity				
10.1.	Reactivity			
Stable				
10.2.	Chemical stability			
Stable				
10.3.	Possibility of hazardous reactions			
Hazardous polymerization will not occur.				
10.4.	Conditions to avoid			
Direct sunlight. Heat sources. Extremely high or low temperatures.				

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10.5. Incompatible materials None known. 10.6. Hazardous decomposition products Thermal decomposition generates: carbon oxides (CO, CO₂). **SECTION 11: Toxicological information** 11.1. Information on toxicological effects 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 - 8 Serious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met) pH: 6 - 8 Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met) Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met) Carcinogenicity : Not classified (Based on available data, the classification criteria are not met) Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met) Specific target organ toxicity (single exposure) : Not classified (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 skin contact : May cause skin irritation. Symptoms/injuries after eye contact Contact may cause eye irritation. Symptoms/injuries after ingestion : May be harmful if swallowed. **SECTION 12: Ecological information** 12.1. **Toxicity** No additional information available 12.2. Persistence and degradability **Optimize® FXC Component A** Persistence and degradability Not established 12.3. **Bioaccumulative potential Optimize® FXC Component A** Bioaccumulative potential Not established **Mobility in soil** 12.4. No additional information available 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.

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SECTION 13: Disposal considerations			
13.1. Waste treatment methods			
Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.		
Ecology - waste materials	: Avoid release to the environment.		
SECTION 14: Transport information			
In accordance with DOT			
Not regulated for transport			
Additional information			
Other information	: No supplementary information available.		
ADR			
No additional information available	No additional information available		
Transport by sea			
No additional information available			
Air transport			
No additional information available			
SECTION 15: Regulatory information			
15.1. US Federal regulations			
V			

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2. International regulations

No additional information available

15.2.2. National regulations

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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

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

SECTION 16: Other information	
Abbreviations and acronyms	: CAS - Chemical Abstracts Service. GHS - Globally Harmonised System. HCS - Hazard Communication Standard. OSHA - Occupational Safety and Health Administration.
Other information	: None
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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