

Optimize[®] FXC DS Component A

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

Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking				
	Product identifier			
Product fo		: Mixture		
Trade nan	ne	: Optimize [®] FXC DS Component A		
1.2.	Relevant identified uses of the substa	ance or mixture and uses advised against		
Use of the	substance/mixture	: Seed Treatment used for use with Optimize FXC DS Component B inoculant		
1.3.	Details of the supplier of the safety d	ata sheet		
Milwaukee	es BioAg t Custer Ave e, WI 53209 - USA n 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			
Emergend	y number	: 1-800-424-9300 (Chemtrec) 24 hours every day		
SECTIO	N 2: Hazards identification			
2.1.	Classification of the substance or mi	xture		
GHS-US of Not classi	classification fied			
2.2.	Label elements			
GHS-US I No labellir	abelling ng applicable			
2.3.	Other hazards			
No additio	nal information available			
	Unknown acute toxicity (GHS-US)			
Not applic				
SECTIO	N 3: Composition/information	on ingredients		
3.1.	Substances			
Not applic	able			
3.2.	Mixture			
Active Ingredient: Lipo-chitooligosaccharide (LCO) (CAS 163181-92-8) : 2.66x10 ⁻⁵ %				
This mixtu	re does not contain any substances to b	be mentioned according to the criteria of Appendix D to Regulations 29 CFR 1910.1200.		
SECTIO	N 4: First aid measures			
4.1.	Description of first aid measures			
First-aid m	neasures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).		
First-aid m	neasures after inhalation	: Allow victim to breathe fresh air. Allow the victim to rest. If exposure symptoms persist, seek medical attention.		
First-aid m	neasures 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 m	neasures 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 effect	s, both acute and delayed		
Symptoms		: Not expected to present a significant hazard under anticipated conditions of normal use.		
	s/injuries after skin contact	: May cause skin irritation.		

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Oymptor	ns/injuries after eye contact	: Contact may cause eye irritation.
		: May be harmful if swallowed.
4.3.	Indication of any immediate medical	attention and special treatment needed
	mptomatically	
SECTI	ON 5: Firefighting measures	
5.1.	Extinguishing media	
Suitable	extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitat	ble extinguishing media	: Do not use a heavy water stream.
5.2.	Special hazards arising from the subs	stance or mixture
Reactivit	ty	: Thermal decomposition generates : oxides of carbon.
5.3.	Advice for firefighters	
·	-	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protectiv	ve equipment for firefighters	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTI	ON 6: Accidental release meas	ures
6.1.	Personal precautions, protective equ	ipment and emergency procedures
6.1.1.	For non-emergency personnel	
Emerger	ncy procedures	: Evacuate unnecessary personnel.
6.1.2.	For emergency responders	
Protectiv		: Equip cleanup crew with proper protection.
Emerger	ncy procedures	: Ventilate area.
6.2.	Environmental precautions	
Prevent	entry to sewers and public waters. Notify	authorities if liquid enters sewers or public waters.
6.3.	Methods and material for containment	nt 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.
	for cleaning up Reference to other sections	spillage. Store away from other materials. Collect all waste in suitable and labelled containers
6.4.		spillage. Store away from other materials. Collect all waste in suitable and labelled containers
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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 protection equipment is recommended.
Other information	: Do not eat, drink or smoke during use.
SECTION 9: Physical and chemica	I properties
9.1. Information on basic physical and	t chemical properties
Physical state	: Liquid
Appearance	: Colourless liquid
Colour	: Colourless
Odour	: Odorless
Odour threshold	: No data available
рН	: 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 same vapor pressure as water
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 reactivi	ty
10.1. Reactivity	
Stable	

Stable			
10.2.	Chemical stability		
Stable			
10.3.	Possibility of hazardous reactions		
Hazardous polymerization will not occur.			
10.4.	Conditions to avoid		
Director	Direct suplight. Heat sources. Extremely high or low temperatures		

Direct sunlight. Heat sources. Extremely high or low temperatures.

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10.5. Incompatible materials	
None known.	
10.6. Hazardous decomposition product	ls
Thermal decomposition generates: carbon oxid	les (CO, CO ₂).
SECTION 11: Toxicological informa	tion
11.1. Information on toxicological effect	
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) : Not classified
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 informatio	n
12.1. Toxicity	
No additional information available	
12.2. Persistence and degradability	
Optimize [®] FXC DS Component A	
Persistence and degradability	Not established
12.3. Bioaccumulative potential	
Optimize [®] FXC DS Component A	
Bioaccumulative potential	Not established
12.4. Mobility in soil	
No additional information available	
12.5. Other adverse effects	
	: No additional information available
12.5. Other adverse effects	 No additional information available No additional information available
12.5. Other adverse effects Effect on ozone layer	

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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 Transport by sea No additional information available Air transport			
No additional information available			
SECTION 15: Regulatory information			
15.1. US Federal regulations			
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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