

Safety Data Sheet

Date of issue: 05/22/2024 Version: 5.0

SECTION 1 : Identificatior	of the substance/m	xture <u>and of</u>	the company/underta	aking
.1. Product identifier				
Trade name	: Actinovate <sup>®</sup> Lawn & G	arden	EPA Registration No.	: 73314-20
.2. Relevant identified u	ses of the substance or m	xture and uses	advised against	
Use of the substance/mixture	: Biofungicide			
.3. Details of the supplie	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 d	ay 7 days a wee	c from April 1st to June 15th	, otherwise available from 8:00am
	to 4:30pm CST, Monda	y to Friday.		
.4. Emergency telephon	e number			
Emergency number	: 1-800-424-9300 (Chen	ntrec) 24 hours e	very day	
ECTION 2 : Hazards ider	tification			
.1. Classification of the	substance or mixture			
GHS-US classification				
Comb. Dust				
Full text of H-statements: see see	tion 16			
.2. Label elements				
HS-US labelling				
Signal word (GHS-US)	: Warning			
Hazard statements (GHS-US)	: May for	n combustible d	ust concentrations in air	
2.3. Other hazards				
lo additional information available				
.4. Unknown acute toxic	ity (GHS-US)			
lot applicable				
SECTION 3 : Composition	/information on ingre	dients		
.1. Substance				
lot applicable				
.2. Mixture				
Active ingredients: Streptomyces lydicus WYEC 108	0.037% w/w			
his mixture does not contain any	substances to be mentioned	according to th	e criteria of Appendix D to R	egulations 29 CFR 1910.1200.
<b>SECTION 4 : First aid mea</b>	sures			
.1. Description of first a	d measures			
First-aid measures general		ve anything by r show the label w		son. If you feel unwell, seek medical
First-aid measures after inhalatio			air. Allow the victim to rest. It th. Immediately get medical	f not breathing, give artificial respiration attention.
First-aid measures after skin con			g and wash all exposed skin kin irritation occurs: Get mee	area with mild soap and water, followed dical advice/attention.
First-aid measures after eye cont	minimur	n). Remove cont		s well away from the eye (15 minutes isy to do. Continue rinsing. Obtain medi
First-aid measures after ingestion	medical	attention. Do no		conscious/alert. Obtain emergency cted to do so by medical personnel. Ne



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4.2. Most important symptoms and effect	
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. This product may cause adverse effects to individuals allergic to molds and/or fu and should not be used by immunocompromised and/or immunosuppressed individuals.
Symptoms/injuries after inhalation	: Possible respiratory damage following repeated or prolonged inhalation.
Symptoms/injuries after eye contact	: May cause slight irritation.
Symptoms/injuries after ingestion	: Irritation of mucous membranes.
1.3. Indication of any immediate medica	I attention 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 su	bstance or mixture
Explosion hazard	: Accumulation of airborne dusts may present an explosion hazard in the presence of an igniti source. Avoid static electricity discharges.
Reactivity	: Thermal decomposition generates : Carbon dioxide. Carbon monoxide. 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, NIOSH (approved equivalent) and full protective gear.
SECTION 6 : Accidental release meas	ures
6.1. Personal precautions, protective eq	uipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Ventilate area.
2. Environmental precautions	
Prevent entry to sewers and public waters. Notify a	authorities if liquid enters sewers or public waters.
.3. Methods and material for containme	ent and cleaning up
Methods for cleaning up	: On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials. Collect all waste in suitable and labelled containers and dispose according to local legislation. Wash contaminated area with large amounts of water.
6.4. Reference to other sections	
lo 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. Ensure adequate ventilation. Avoid breathing dust. Avoid contact with eyes, skin, and clothing. Use before expiration date printed on package.
Hygiene measures	<ul> <li>Handle in accordance with good industrial hygiene and safety practices. Wash hands thoroughly after handling.</li> </ul>
7.2. Conditions for safe storage, includi	ng any incompatibilities



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Incompatible materials	: Acids. Bases. Oxidizing agents. Reducing agents. Disinfectants, fungicides, and/or biocide may inactivate.
Storage temperature	: 40 – 85 °F (4-29 °C)
7.3. Specific end use(s)	
No additional information available	
SECTION 8 : Exposure controls/per	sonal protection
8.1. Control parameters	
No additional information available	
8.2. Exposure controls	
Appropriate engineering controls	: Ensure adequate ventilation. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Personal protective equipment	: Avoid all unnecessary exposure. Protective goggles. Gloves. Protective clothing. Insufficient ventilation: wear respiratory protection.
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.
<b>SECTION 9 : Physical and chemical</b>	properties
9.1. Information on basic physical an	d chemical properties
Physical state	: Solid
Appearance	: Pale white powder.
Colour	: Pale white
Odour	: Slight odour of rich soil
Odour threshold	: No data available
рН	: 6.83
Melting point	: No data available
Freezing point	: No data available
Boiling point	: Not applicable
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Explosive limits	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Vapour pressure	: Not applicable
Relative density	: No data available
Relative vapour density at 20 °C	: Not applicable
Density	: 5.5
Solubility	: Water: Soluble
Log Pow	: No data available
Log Kow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: Not applicable
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: Not applicable



**Actinovate**®

Persistence and degradability

#### Actinovate<sup>®</sup> Lawn & Garden

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9.2. Other information	
No additional information available	
SECTION 10 : Stability and reactivity	
I0.1. Reactivity	
Stable.	
10.2. Chemical stability	
Stable under normal conditions of handling and s	torage for up to 6 months from the date of manufacture.
0.3. Possibility of hazardous reactions	
lazardous polymerization will not occur.	
10.4. Conditions to avoid	
leat sources. Direct sunlight. Extremely high or least sources.	ow temperatures.
0.5. Incompatible materials	
	Disinfectants, fungicides, and/or biocides may inactivate.
10.6. Hazardous decomposition product	
Thermal decomposition generates : Carbon mono	
SECTION 11 : Toxicological informat	
1.1. 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: 6.83
Serious eye damage/irritation	: Not classified
	(Based on available data, the classification criteria are not met)
	pH: 6.83
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	(Based on available data, the classification criteria are not met) : 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 exposure)	: Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard	: Not classified
Aspiration hazaru	(Based on available data, the classification criteria are not met)
Symptome/injuries ofter inhalation	
Symptoms/injuries after inhalation Symptoms/injuries after eye contact	<ul> <li>Possible respiratory damage following repeated or prolonged inhalation.</li> <li>May cause slight irritation.</li> </ul>
Symptoms/injuries after ingestion	: Irritation of mucous membranes.
SECTION 12 : Ecological information	
12.1. Toxicity No additional information available	
2.2. Persistence and degradability	

Not established.



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Actinovate®	Net established
Bioaccumulative potential	Not established.
.4. Mobility in soil	
additional information available	
2.5. 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. For terrestrial uses: Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. not contaminate water when cleaning equipment or disposing of equipment wash waters or rinsate.
ECTION 13 : Disposal considerati	ons
3.1. Waste treatment methods	
Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. To avoid wastes, us all material in this container by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (often such programs are run by state or local governments or by industry).
Ecology - waste materials	: Avoid release to the environment.
ECTION 14 : Transport informatio	n
epartment of Transportation (DOT) accordance with DOT ot regulated for transport	
dditional information Other information	: No supplementary information available.
DR	
o additional information available	
ansport by sea	
ir transport	
o additional information available	
ECTION 15 : Regulatory informati	on
5.1. US Federal regulations	
All components of this product are listed, or Substances Control Act (TSCA) inventory e	excluded from listing, on the United States Environmental Protection Agency Toxic xcept for:
Clinoptilolite	CAS No 12173-10-3 0.2078%
	oxic chemical or chemicals in excess of the applicable concentration as specified in 40 CFR nents of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and
5.2. International regulations	
additional information available	
ational regulations Actinovate®	



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

Abbreviations and acronyms	: CAS - Chemical Abstracts Service. GHS - Globally Harmonised System. HCS - Hazard Communication Standard. OSHA - Occupational Safety and Health Administration.	
Other information	: None	
Full text of H-statements:		
Comb. Dust	Combustible Dust	
H232	May form combustible dust concentrations in air	
NFPA health hazard	: 0 - Exposure under fire conditions would offer no hazard beyond that of ordinary combustible materials.	
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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