

Actinovate® STP

Safety Data Sheet

according to the federal final rule of hazard communication revised on 2012 (HazCom 2012) Date of issue: 24/05/2017 Version: 1.0

1.1.	Product identifier	
Trade		: Actinovate [®] STP
1.2.	Polovant identified uses of the s	substance or mixture and uses advised against
	the substance/mixture	: Biofungicide
1.3.	Details of the supplier of the safe	ety data sheet
	nes BioAg Custer Ave	
	ee, WI 53209, USA ne 1-888-744-5662	
1.4.	Emergency telephone number	
Emerg	ency 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.
SECTI	ON 2: Hazards identification	
2.1.	Classification of the substance of	or mixture
GHS-US	classification	
Not clas	sified	
2.2.	Label elements	
HS-US	abelling	
	ling applicable	
	0.11	
2.3.	Other hazards	
	ional information available	
2.4.	Unknown acute toxicity (GHS-US	S)
Not appl	icable	
SECTI	ON 3: Composition/informati	ion on ingredients
8.1.	Substance	
lot appl	icable	
.2.	Mixture	
	gredients: nyces lydicus WYEC 108 0.0036% v	v/w
This mix	ture does not contain any substances	to be mentioned according to the criteria of Appendix D to Regulations 29 CFR 1910.1200.
SECTI	ON 4: First aid measures	
l.1.	Description of first aid measures	5
First-ai	d measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-ai	d measures after inhalation	: Allow breathing of fresh air. Allow the victim to rest. If not breathing, give artificial respiration preferably mouth to mouth. Immediately get medical attention.
First-ai	d measures after skin contact	: Rinse immediately with plenty of water for 15 minutes. Remove/Take off immediately all contaminated clothing. If skin irritation occurs: Get medical advice/attention.
First-ai	d measures after eye contact	 Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 minutes minimum). Remove contact lenses, if present and easy to do. Continue rinsing. Obtain med attention if pain, blinking or redness persist.

: Rinse mouth. Give water to drink if victim completely conscious/alert. Obtain emergency

medical attention. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

First-aid measures after ingestion



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4.2. Most important symptoms and eff	ects, 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. This product may cause adverse effects to individuals allergic to molds and/or fur 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 skin contact	: May cause skin irritation.		
Symptoms/injuries after eye contact	: May cause moderate irritation.		
Symptoms/injuries after ingestion	: On ingestion in large quantities : May cause stomach pain or discomfort.		
4.3. Indication of any immediate media	cal 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 s	ubstance or mixture		
Explosion hazard	: 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	sures		
6.1. Personal precautions, protective e	equipment 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.		
6.2. Environmental precautions			
	y authorities if liquid enters sewers or public waters.		
6.3. Methods and material for contain	nent 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			
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. Ensure adequate ventilation. Avoid breathing dust. Avoid contact with eyes, skin, and clothing. Use before expiration date printed on package.		
Hygiene measures	: Handle in accordance with good industrial hygiene and safety practices. Wash hands thoroughly after handling.		
Hygiene measures 7.2. Conditions for safe storage, include	: Handle in accordance with good industrial hygiene and safety practices. Wash hands thoroughly after handling.		



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Incompatible materials

: Acids. Bases. Oxidizing agents. Reducing agents. Disinfectants, fungicides, and/or biocides may inactivate.

Storage temperature

: 40 - 85 °F (4-29 °C)

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection			
8.1. Control parameters			
Talc (14807-96-6)			
	ACGIH	ACGIH TWA (mg/m³)	2 mg/m ³ (particulate matter containing no asbestos and <1% crystalline silica, respirable fraction)

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.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and	chemical properties
Physical state	: Solid
Appearance	: Pale white powder.
Colour	: Pale white
Odour	: Slight odour of rich soil
Odour threshold	: No data available
рН	: 8.3
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: 70 % 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



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Viscosity, kinematic Viscosity, dynamic	: Not applicable		
9.2. Other information			
No additional information available			
SECTION 10: Stability and reactivity			
	Reactivity		
Stable.			
10.2. Chemical stability	2. Chemical stability		
Stable under normal conditions of handling and storage for up to 6 months from the date of manufacture.			
10.3. Possibility of hazardous reaction	B. Possibility of hazardous reactions		
Hazardous polymerization will not occur.			
10.4. Conditions to avoid	4. Conditions to avoid		
Heat sources. Direct sunlight. Extremely high or	low temperatures.		
10.5. Incompatible materials			
Acids. Bases. oxidizing agents. Reducing agents. Disinfectants, fungicides, and/or biocides may inactivate.			
10.6. Hazardous decomposition products			
Thermal decomposition generates : Carbon monoxide. Carbon dioxide. hydrocarbons.			
SECTION 11: Toxicological information	tion		
11.1. Information on toxicological effect	ts		
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: 8.3		
Serious eye damage/irritation	: Not classified		
	(Based on available data, the classification criteria are not met)		
	pH: 8.3		

Germ cell mutagenicity

Carcinogenicity

Reproductive toxicity

Specific target organ toxicity (single exposure)

Specific target organ toxicity (repeated exposure)

Symptoms/injuries after inhalation

Symptoms/injuries after ingestion

Aspiration hazard

: Not classified (Based on available data, the classification criteria are not met)

: Possible respiratory damage following repeated or prolonged inhalation.

(Based on available data, the classification criteria are not met)

(Based on available data, the classification criteria are not met)

(Based on available data, the classification criteria are not met)

(Based on available data, the classification criteria are not met)

(Based on available data, the classification criteria are not met)

(Based on available data, the classification criteria are not met)

May cause skin irritation. :

: Not classified

Not classified

Not classified

: Not classified

: Not classified

: Not classified

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Symptoms/injuries after skin contact Symptoms/injuries after eye contact May cause moderate irritation. :

: On ingestion in large quantities : May cause stomach pain or discomfort.

SECTION 12: Ecological information

12.1. Toxicity

No additional information available



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12.2. Persistence and degradability				
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Persistence and degradability Not established.				
12.3. Bioaccumulative potential				
Actinovate® STP				
Bioaccumulative potential				
12.4. Mobility in soil				
No additional information available				
12.5. Other adverse effects				
Effect on ozone layer	: No additional in	ormation available		
Effect on the global warming	: No additional in	ormation available		
Other information	areas where su	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. D not contaminate water when cleaning equipment or disposing of equipment wash waters or rinsate.		
SECTION 13: Disposal considerati	ons			
13.1. Waste treatment methods				
Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. To avoid was material in this container by application according to label directions. If wastes cannot avoided, offer remaining product to a waste disposal facility or pesticide disposal prog (often such programs are run by state or local governments or by industry).		to label directions. If wastes cannot be sal facility or pesticide disposal program		
Ecology - waste materials : Avoid release to the environment.				
SECTION 14: Transport informatio	n			
Department of Transportation (DOT)				
In accordance with DOT				
Not regulated for transport				
Additional information				
Other information	: No supplementa	ry information available.		
ADR				
No additional information available				
Transport by sea				
No additional information available				
Air transport				
No additional information available				
SECTION 15: Regulatory informati	on			
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 except for:				
Clinoptilolite		CAS No 12173-10-3	0.0185%	
		040 NI- 4040 50 0	00.070/	

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable 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.

CAS No 1318-59-8

< 99.67%

15.2. International regulations

Chlorite-group minerals

No additional information available



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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). This product is regulated by the US Environmental Protection Agency under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) and its Amendments.

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 informatio	n
Abbreviations and acronyms	: ACGIH (American Conference of Government Industrial Hygienists). CAS - Chemical Abstracts Service. GHS - Globally Harmonised System. HCS - Hazard Communication Standard. OSHA - Occupational Safety and Health Administration. TWA- Time Weighted Average.
Date of SDS preparation	: 2015/06/12
Other information	: None.
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.

SDS US (GHS HazCom 2012)

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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