



MATERIAL SAFETY DATA SHEET

009910

*** Section 1 – Chemical Product and Company Identification ***			
Product Name or Identity:	ACTIGEN™ M		
Manufacturer's Name:	Alltech, Inc.	Phone No.:	(859) 885-9613
	3031 Catnip Hill Pike	Fax No.:	(859) 885-6736
	Nicholasville, KY 40356	ChemTrec:	1-800-424-9300
Date Prepared or Revised:	11 August 2011		

*** Section 2 – Hazards Identification ***	
EMERGENCY OVERVIEW: This product is a light tan colored, free-flowing powder. While this product is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of this product.	
OSHA Regulatory Status: This product is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).	
Potential Health Effects: Inhalation May cause irritation to the respiratory tract. If application creates dust, use appropriate NIOSH approved respiratory protection.	
Potential Health Effects: Skin Prolonged exposure may cause skin irritation.	
Potential Health Effects: Eyes May cause slight irritation.	
Potential Health Effects: Ingestion May cause gastrointestinal pain. Seek medical attention if large amount is ingested.	
Chronic Health Effects: Not identified.	
Signs and Symptoms of Exposure: Not available	
Medical Conditions Aggravated by Exposure: Not available	
HMIS Rating: Health: 1 Fire: 0 Reactivity: 0 Hazard scale: 0=Minimal, 1=Slight, 2=Moderate, 3=Serious, 4=Severe *=Chronic Hazard	

*** Section 3 – Composition/Information on Ingredients ***	
CAS #	Component
Not applicable	Hydrolyzed yeast and Ground corn cob

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*** Section 4 – First Aid Measures ***	
First Aid: Inhalation Under normal conditions of use, inhalation of this product is unlikely. If inhaled, remove to fresh air. If no breathing, give artificial respiration and seek medical attention.	
First Aid: Skin Remove contaminated clothing. Wash affected area with soap and water for at least 15 minutes. Seek medical attention if irritation develops.	
First Aid: Eyes In case of contact, immediately flush with water for at least 15 minutes. Seek medical attention if irritation develops or persists.	
First Aid: Ingestion Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Seek medical attention.	
First Aid: Notes to Physician Not available	

*** Section 5 – Fire Fighting Measures ***	
Flash Point: Not available	Method Used: Not available
Upper Flammable Limit (UFL): Not available	Lower Flammable Limit (LFL): Not available
Auto Ignition: Not available	Flammability Classification: Not available
Rate of Burning: Not available	
Flammable Properties: Not available	
Extinguishing Media: Use media that is appropriate to treat surrounding fire. Consider water spray or fog, carbon dioxide, dry chemical powder or foam.	
Fire Fighting Equipment/Instructions: Wear protective clothing and equipment suitable for the surrounding fire, including helmet, face mask, and self-contained breathing apparatus.	
Specific Hazards: Evolves carbon dioxide, carbon monoxide or hydrocarbon fumes upon combustion.	
NFPA Ratings: Health: 1 Fire: 0 Reactivity: 0 Hazard scale: 0=Minimal, 1=Slight, 2=Moderate, 3=Serious, 4=Severe	

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*** Section 6 – Accidental Release Measures ***
Personal Precautions: Wear appropriate personal protective equipment as specified in Section 8.
Environmental Precautions: Avoid contact and inhalation. Do not get in eyes. Wash thoroughly with soap and water after handling. The use of respiratory protection is advised when dust concentrations exceed any established exposure limits (see point 8).
Methods for Containment: No special precautions.
Methods for Clean-Up: Sweep, shovel, or vacuum up the material. Avoid any excess dust formation. Use caution as product may be slippery when wet. Keep product out of sewage and drainage systems and all bodies of water. Cleanup spills immediately. Ventilate the contaminated area. Thoroughly wash the area with water after a spill.
Other Information: Regulations vary. All waste material should be packaged, labeled and disposed of in accordance with federal and local regulations. Consult local authorities before disposal.

*** Section 7 – Handling and Storage ***
Handling Procedures: Avoid contact and inhalation. Do not get in eyes, on skin, on clothing. Wash thoroughly with soap and water after handling. The use of respiratory protection is advised when dust concentrations exceed any established exposure limits (see point 8).
Storage Procedures: Store in a cool, dry area. Open containers should be resealed. Product shelf life under these conditions is 18 months.

*** Section 8 – Exposure Controls/Personal Protection ***
A: Component Exposure Limits Component (CAS #): ACGIH: OSHA:
Engineering Controls: If user operations generate dust, use ventilation to keep exposure to airborne contaminants below the exposure limit.
Personal Protective Equipment: Eyes/Face Safety glasses when eye contact is possible due to dust.
Personal Protective Equipment: Skin Under normal conditions of use, not usually required. Rubber or latex gloves recommended for prolonged exposure.
Personal Protective Equipment: Respiratory Under normal conditions of use, inhalation of this product is unlikely. If application creates dust, use appropriate NIOSH approved respiratory protection.
Personal Protective Equipment: General Use good hygiene practices when handling this material including changing and laundering work clothes after use. Wash with soap and water after handling.

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*** Section 9 – Physical and Chemical Properties ***	
Physical State: Solid	Appearance: Light tan free-flowing powder
Odor: Not available	Bulk Density: Not available
Boiling Point: Not available	Melting Point: Not available
Vapor Density: Not available	Vapor Pressure: Not available
Flashpoint: Not available	Solubility (H₂O): Not available
pH: Not available	

*** Section 10 – Chemical Stability and Reactivity Information ***
Stability: Stable under ordinary conditions of use and storage (70°F [21 °C], 1 atm).
Conditions to Avoid: Heat and/or moisture.
Incompatible Materials: None identified.
Hazardous Decomposition: Evolves carbon dioxide, carbon monoxide or hydrocarbon fumes upon combustion or if heated to decomposition.

*** Section 11 – Toxicological Information ***
Acute and Chronic Toxicity A: General Product Information To the best of our knowledge, the chemical, physical, and toxicological properties of this product have not been thoroughly investigated.
B: Component Analysis – LD50/LC50 Component (CAS #): Not available
Carcinogenicity A: General Product Information Not listed by ACGIH, IARC, NTP, CA Prop 65.
B: Component Carcinogenicity Component (CAS #): Not listed by ACGIH, IARC, NTP, CA Prop 65.
Epidemiology: No data is available
Neurotoxicity: No data is available
Mutagenicity: No data is available
Teratogenicity: No data is available
Other Toxicological Information: To the best of our knowledge, the chemical, physical, and toxicological properties of this product have not been thoroughly investigated.

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***** Section 12 – Ecological Information *****

Component Analysis – Ecotoxicity – Aquatic Toxicity

Component (CAS #):

Test & Species:

Not available

***** Section 13 – Disposal Considerations *****

US EPA Waste Number & Descriptions

A: General Product Information

Not available

B: Component Waste Numbers

Component (CAS #):

Not available

Disposal Instructions:

Consult local, state and/or provincial environmental regulatory authorities for acceptable disposal procedures and locations.

***** Section 14 – Transportation Information *****

This product is not regulated for shipping by DOT.

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*** Section 15 – Regulatory Information ***							
US Federal Regulations							
A: General Product Information Not available							
B: Component Analysis Component (CAS #): Not available							
State Regulations							
A: General Product Information Not available							
B: Component Analysis – State The following components appear on one or more of the following state right to know lists:							
Component	CAS #	CA	FL	MA	MN	NJ	PA
Not available							
Component Analysis – WHMIS IDL The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:							
Component	CAS #	Minimum Concentration					
Not available							
Additional Regulatory Information Component Analysis – Inventory							
Component	CAS #	TSCA 8(b) inventory					
Not available							

*** Section 16 – Other Information ***
Other Information:
Product Use: ACTIGEN™ M is a feed supplement for beef and dairy cattle.
"The information herein has been compiled from sources believed to be reliable and is accurate to the best of our knowledge. However, Alltech, Inc. cannot give any guarantees regarding information from other sources, and expressly does not make any warranties, nor assumes any liability, for its use."