

# ENZYME MATERIAL SAFETY DATA SHEET

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## **Hemicell® Poultry & Swine Feed Enzyme**

Date prepared: 2/2000

### 1. IDENTIFICATION OF THE SUBSTANCE/COMPANY UNDERTAKING

Commercial product name	:	Hemicell®
Description	:	Enzyme preparation
Manufacturer/Supplier	:	ChemGen Corp.
Address	:	211 Perry Parkway
City, State, Zip	:	Gaithersburg, Maryland, 20877
Telephone number for information	:	301-330-4101
Emergency telephone number	:	800-296-2646
Faxsimile	:	301-948-5866

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### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization of active	:	
Component	:	Hemicellulase
Synonyms	:	Not Applicable
Hazardous ingredients	:	Not Applicable
Exposure limit	:	Not Applicable

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### 3. HAZARDS IDENTIFICATION

Not Applicable

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### 4. PHYSICAL AND CHEMICAL PROPERTIES

<u>Appearance</u>	:	
Dry product	:	Tan
Liquid product	:	Amber to brown
<u>Odor</u>	:	
Dry product	:	Plant meal odor
Liquid product	:	Typical fermentation product odor
<u>Density</u>	:	
Dry product	:	0.7-0.8
Liquid product	:	1-1.25
<u>Solubility</u>	:	
Dry product	:	Very Little
Liquid product	:	Very readily miscible

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### 5. FIRE AND EXPLOSION MEASURES

Suitable fire extinguishing media	:	Water, foam
Non-suitable media	:	No special requirements
Special exposure hazards	:	No special requirements
Protection against fire and explosions	:	No special requirements

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### **6. STABILITY AND REACTIVITY**

Enzyme may be affected by exposure to high temperatures and high moisture. Store in a cool dry place.

Conditions to avoid	:	None
Materials to avoid	:	None
Hazardous decomposition products	:	None
Hazardous polymerization	:	Will not occur

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### **7. FIRST AID MEASURES**

Inhalation, Skin, Ingestion	:	May cause irritation upon prolonged exposures.
Health hazards (Acute and Chronic)	:	Chronic exposure may lead to allergic sensitization based on exposure level, duration of exposure, and susceptibility.
Carcinogenicity	:	Not listed as a carcinogen or a potential carcinogen.
Signs and symptoms of exposure	:	Symptoms of enzyme allergies may include: sneezing, coughing, watery eyes, runny nose, tightness of chest or shortness of breath. Symptoms may develop at work or may be delayed.
Medical conditions	:	Allergies

**IF ANY SYMPTOMS PERSIST SEEK MEDICAL ATTENTION**

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### **8. PRECAUTIONS FOR SAFE HANDLING AND USE**

Minimize or prevent the formation of aerosols or dust during clean-up. Avoid high water pressure, steam or compressed air on spills. Vacuum powdered spill or moisten with water before removal. Contain and absorb liquid spill with inert material.

Avoid creating dust or aerosols. Avoid exposure to high temperatures or water which may reduce product activity.

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### **9. DISPOSAL CONSIDERATIONS**

No special disposal method is required, except that it be in accordance with current local, state, and federal regulations.

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### **10. EXPOSURE CONTROL/PERSONAL PROTECTION**

Respiratory protection	:	None required under normal conditions of use. If risk of inhalation may occur, respiratory protective equipment must be selected and used in accordance with OSHA.
Hand protection	:	Impetmeable gloves (rubber or polyethylene).
Eye protection	:	Wear safety glasses when there is the potential for eye contact.
Ventilation		
Local Exhaust	:	As needed to prevent dust or aerosols.
Special	:	Recommend well ventilated workplace.
Other protective clothing	:	Clothes sufficient to avoid contact. Safety shower and eye bath available.
Work/Hygienic practices	:	Maintain good housekeeping. Avoid generation of dust or aerosol.

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### **OTHER INFORMATION**

The information contained in this Material Safety Data Sheet, as of the issue date, is believed to be true and correct. However, the accuracy or completeness of this information and any recommendations or suggestions are made without warranty or guarantee. Since the conditions of use are beyond the control of our company, it is the responsibility of the user to determine the conditions of safe use of this preparation. See package label for the terms of sale of this product.