



Gourmet Mushrooms, Inc.

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Date: April 21, 2010
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MATERIAL SAFETY DATA SHEET

Polyporus umbellatus Mycelial Biomass Powder

I. IDENTITY

Product Identity: Zhuling, *Polyporus umbellatus*

General Use: Food Supplement

Product Description: Powdered *Polyporus umbellatus* mushroom mycelia biomass in grain substrate.

Manufacturer: Gourmet Mushrooms, Inc.

II. HAZARDOUS COMPONENTS

HAZARDOUS COMPONENTS	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED
Nuisance particles generated by handling.	5.0 Mg/CuM	DNA	DNA

III. PHYSICAL / CHEMICAL CHARACTERISTICS

Solubility in Water:	Mildly Soluble	Specific Gravity (Water = 1):	0.49 - 0.59
Boiling Point (°F):	DNA	Melting Point:	DNA
Vapor Pressure (mmHg):	DNA	Evaporation Rate:	DNA
Vapor Density (Air = 1):	DNA		
Appearance and Odor:	Fine particles with characteristic fungal odor.		

IV. FIRE AND EXPLOSION HAZARD DATA

Flash point (Method used):	DNA	Flammable Limits:	
Ignition Temperature:	DNA	UEL:	N/A
Extinguishing Media:	Dry Chemical, CO ₂ , Water Spray	LEL:	N/A

Special Fire Fighting Procedures: As in any fire, wear self-contained breathing apparatus and full protective gear. Burning produces irritant fumes. Residue from extinguished fires may be hazardous.

Unusual Fire and Explosion Hazards: None known

V. REACTIVITY DATA

Stability:	Stable
Conditions to Avoid:	Extreme hot, cold, or wet conditions
Incompatibility (Materials to Avoid):	Strong oxidizing agents
Hazardous Decomposition or By-Products:	Thermal decomposition can lead to release or irritating gases and vapors such as carbon oxides.
Hazardous Polymerization:	None under normal processing.

VI. HEALTH HAZARD DATA

Routes of Entry:	Inhalation: Yes	Skin: Yes	Ingestion: No health hazards
Health Hazards (Acute and Chronic):	(Acute)		
	Respiratory: Bronchitis, possibly allergic rhinitis in sensitive individuals.		
	Eyes: Mechanical foreign body irritation, blepharitis in sensitive individuals. Secondary infections are a possibility.		
	Skin: Dermatitis in sensitive individuals.		

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	(Chronic)	Respiratory: Chronic bronchitis Eyes: Secondary infections such as corneal ulcer. Skin: Secondary infections.
Carcinogenicity:		Not listed as a carcinogen by IARC, NTP, ACGIH, or OSHA. Medical conditions generally aggravated by exposure: Any respiratory disease especially in smokers. Skin disorders may be aggravated in sensitive individuals.
Emergency and First Aid Procedures:	Inhalation:	Move to fresh air.
	Eyes:	Flush with plenty of water. Reuse of eye cup in conjunction with an eyewash is discouraged since the possibility of a secondary infection exists. If irritation persists, seek medical attention.
	Skin:	Good personal hygiene practices should reduce possibilities of dermatitis. If dermatitis develops, apply a .5% hydrocortisone cream. If irritation persists, seek medical attention.
	Ingestion:	Do not induce vomiting without medical advise.

VII. PRECAUTIONS FOR SAFE HANDLING AND USE

Spill or Leak Cleanup:	Remove accumulations by sweeping, shoveling, or vacuuming for disposal. Prevent product from entering drains.
Waste Disposal Method:	Dispose of waste in a sanitary landfill according to state and local regulations.
Precautions to be Taken in Handling or Storing:	Store at room temperature in dry conditions. Use only in an area with appropriate exhaust ventilation.
Other Precautions:	None

VIII. CONTROL MEASURES

Respiratory Protection:	Use personal protective equipment.
Ventilation:	Good general and local ventilation to prevent concentrations above the PEL is recommended. Otherwise use a self-contained breathing apparatus or nuisance mask.
Protective Gloves:	Not normally needed except to prevent skin contact for hygienic purposes, use disposable gloves.
Eye Protection:	Safety glasses
Other Protective Clothing or Equipment:	Lab coats are recommended for hygienic handling.
Work/Hygienic Practices:	Avoid contact with skin, eyes and clothing.

CAUTION

Particles may irritate the eyes.

PRECAUTIONS: WEAR EYE PROTECTION WHEN WORKING WITH POWDER.
USE ADEQUATE VENTILATION TO KEEP EXPOSURE BELOW 5 MG. PER CUBIC METER.

Manufacturer's Notification

The information contained herein is based on the data available to us and is believed to be correct. However, Gourmet Mushrooms, Inc. makes no warranty, expressed or implied, concerning the accuracy or completeness of this information. Gourmet Mushrooms assumes no responsibility for injury to vendee or third parties from the use of the product described herein.

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