



MATERIAL SAFETY DATA SHEET

1. CHEMICAL IDENTIFICATION AND COMPANY INFORMATION

PRODUCT NAME: Amphotericin B, USP Grade

SYNONYMS:

PRODUCT NUMBER: A119

CAS NO: 1397-89-3

NIOSH/RTECS NO: BU2625000

COMPANY INFO: *PhytoTechnology Laboratories®*
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2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS Number	Potency	Hazardous
Amphotericin B	1397-89-3	>750 µg/mg	No exposure limits established by OSHA or ACGIH

3. PHYSICAL & CHEMICAL PROPERTIES

Product Description: Amphotericin B, USP Grade
Formula: $C_{47}H_{73}NO_{17}$
Molecular Weight: 924.09 g/mol
Storage Temperature: 2-6 °C
pH (0.05 g/L): Under Development (2.0 – 4.0 suspected range) (solvent dependant)
Vapor Density: N/A
Melting Point: >170 °C (Dec)
Specific Gravity: N/A
Solubility: Soluble in DMSO. Very slightly soluble in acidic or basic water.
Appearance: Yellow powder
Odor: Odorless

4. HAZARDS IDENTIFICATION

Label Hazard Warnings: Harmful by inhalation and in contact with skin. Risk of serious damage to eyes.

Label Precautionary Statements: Do not breathe dust. Avoid contact with eyes or skin. Wear suitable protective clothing, gloves, and eye/face protection.

Laboratory Protective Equipment: Safety goggles, protective gloves, lab coat, appropriate respirator

HMIS Rating:	Health	Flammability	Reactivity	Personal Protection Equipment
	2	1	0	E
NFPA Rating:	Health	Flammability	Reactivity	Special Hazards
	2	1	0	-

Storage and Handling Precautions: Store in a cool, dry place. Avoid lighted areas. Avoid breathing dust. Wash thoroughly after use.

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5. POTENTIAL HEALTH HAZARDS/ TOXICOLOGICAL INFORMATION

Toxicity:	LD ₅₀ (IV-Rat)(µg/kg)	1600
	LD ₅₀ (Oral-Rat)(mg/kg)	>5000
	LD ₅₀ (IP-Mouse)(µg/kg)	27740
Carcinogenicity:	NTP:	No
	IARC:	No
	Z List:	No
	OSHA Reg:	No
Effects of Overexposure:	Fever, pain, nausea, vomiting, headache, convulsions, cardiac arrest, irritation	
Target Organs:	Heart, kidneys, liver, bladder, cardiovascular system, skin, eyes	
Medical Conditions Aggravated By Exposure:	None identified	
Routes of Entry:	Inhalation, skin or eye contact	

6. EMERGENCY AND FIRST AID

Route of Entry	Symptoms	First Aid Procedures
Ingestion	May cause irritation if swallowed	If swallowed, wash out mouth with water. Never give anything by mouth to an unconscious person. Get medical attention.
Inhalation	May cause irritation to respiratory tract	Safely remove victim to fresh air. If not breathing, institute cardiopulmonary resuscitation (CPR). If breathing is difficult, ensure clear airway and give oxygen. Get medical attention.
Eye Contact	Direct contact may cause irritation. May cause redness, tearing, or blurred vision.	Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Get medical attention if irritation persists.
Skin Contact	Irritating. May cause reddening, itching or inflammation.	Wash area thoroughly with soap and water. Remove and wash contaminated clothing. Get medical attention if irritation persists.

7. FIRE HAZARDS & FIRE FIGHTING MEASURES

Flash Point (Closed Cup):	N/A	
Flammable Limits:	Upper – N/A %	Lower – N/A %
Fire Extinguishing Media:	Water spray, carbon dioxide, dry chemical powder, or appropriate foam. Use extinguishing media suitable for surrounding fire.	
Special Fire-Fighting Procedures:	In the event of a fire, wear full protective clothing and NIOSH approved self-contained breathing apparatus. Evacuate the area and fight fire from a safe distance.	
Unusual Fire & Explosion Hazards:	May emit toxic fumes under fire conditions.	
Toxic Gases Produced:	Carbon dioxide, carbon monoxide, nitrogen oxides	

8. REACTIVITY & CONDITIONS TO AVOID

Stability:	Stable under normal conditions of use
Hazardous Polymerization:	Will not occur
Conditions to Avoid:	Light, air, moisture
Incompatibles:	None Identified
Hazardous Decomposition Products:	Carbon dioxide, carbon monoxide, nitrogen oxides

9. SPECIAL PRECAUTIONS/PROTECTIVE EQUIPMENT

Ventilation:	Ventilation hood recommended
Respiratory Protection:	A NIOSH/MSHA approved air purifying respirator is recommended where airborne concentrations are expected to exceed exposure limits. Protection provided by purifying respirators is limited.
Eye/Skin Protection:	Have eye-washing facilities readily available where eye contact can occur. Wear chemical safety goggles. Use appropriate chemical protective gloves when handling. Showering and changing into street clothes after work is recommended.

10. SPILLS & LEAKS

Spill or Discharge:	Wear suitable protective clothing and a self-contained breathing apparatus if available. Carefully sweep up and remove. Place material in a dry container and cover. Remove from the area. Flush spill area with water.
Disposal Procedure:	Dispose in accordance with all applicable federal, state, and local environmental regulations.
EPA Hazardous Waste Number:	N/A

11. TRANSPORTATION DATA

Domestic (D.O.T.):	Proper Shipping Name:	CHEMICALS, N.O.S. (NON-REGULATED)
	Hazard Class:	N/A
	UN/NA:	N/A
	Labels:	N/A
International: IMDG:	Proper Shipping Name:	CHEMICALS, N.O.S. (NON-REGULATED)
	Hazard Class:	N/A
	UN/NA:	N/A
	Labels:	N/A
IATA:	Proper Shipping Name:	CHEMICALS, N.O.S. (NON-REGULATED)
	Hazard Class:	N/A
	UN/NA:	N/A
	Labels:	N/A

12. REGULATORY INFORMATION

U.S. Federal Regulatory Information

TSCA: No

SARA TITLE III:

Section 302 (EHS) Ingredients: No
Section 313 Ingredients: No
Section 304 (EHS/CERCLA) Ingredients: No

SARA TITLE III NOTIFICATION INFORMATION

Acute Health Hazard: No
Chronic Health Hazard: No
Fire Hazard: No
Sudden Release of Pressure Hazard: No

International Regulatory Information

Risk Phrases: 20/21 – Harmful by inhalation or in contact with skin
41 – Risk of serious damage to eyes

Safety Phrases: 22 – Do not breathe dust
24/25 – Avoid contact with eyes and skin
36/37/39 – Wear suitable protective clothing, gloves, and eye/face protection

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