



MATERIAL SAFETY DATA SHEET

1. CHEMICAL IDENTIFICATION AND COMPANY INFORMATION

PRODUCT NAME: Amoxicillin, Trihydrate, USP Grade
SYNONYMS:
PRODUCT NUMBER: A122
CAS NO: 61336-70-7
NIOSH/RTECS NO: Not listed – (Anhydrous: XH8300000)
COMPANY INFO: *PhytoTechnology Laboratories*®
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2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS Number	Potency	Hazardous
Amoxicillin, Trihydrate	61336-70-7	>900 µg/mg	No exposure limits established by OSHA or ACGIH

3. PHYSICAL & CHEMICAL PROPERTIES

Product Description: Amoxicillin, Trihydrate, USP Grade
Formula: $C_{16}H_{19}N_3O_5S \cdot 3H_2O$
Molecular Weight: 419.45 g/mol
Storage Temperature: 2 to 6 °C
pH (1.00 g/L): Under Development (3.5-5.5 suspected range)
Vapor Density: N/A
Melting Point: N/A
Specific Gravity: >0.19 g/cm³
Solubility: Partially soluble in water (May form a suspension)
Appearance: White to off-white powder
Odor: Odorless

4. HAZARDS IDENTIFICATION

Label Hazard Warnings: May cause sensitization by inhalation and skin contact.
Label Precautionary Statements: Do not breathe dust. Avoid contact with skin and eyes. Wear suitable protective clothing, gloves, and eye/face protection.
Laboratory Protective Equipment: Safety glasses, protective gloves, lab coat, and appropriate respirator

HMIS Rating:	Health	Flammability	Reactivity	Personal Protection Equipment
	N/A	N/A	N/A	N/A
NFPA Rating:	Health	Flammability	Reactivity	Special Hazards
	N/A	N/A	N/A	N/A

Storage and Handling Precautions: Store in a tightly sealed container in a cool, dry place. Do not breathe dust. Wash thoroughly after handling. Persons allergic to the penicillin family of chemicals should not handle this product.

5. POTENTIAL HEALTH HAZARDS/ TOXICOLOGICAL INFORMATION

RTECS Info listed is for the anhydrous form

Toxicity:	LD ₅₀ (IPR-Rat)(mg/Kg):	2870
	LD ₅₀ (IPR-Mouse)(mg/Kg):	3590
	LD ₅₀ (Oral-Rat)(mg/Kg):	>15000
Carcinogenicity:	NTP:	No
	IARC:	No
	Z List:	No
	OSHA Reg:	No
Effects of Overexposure:		Nausea, vomiting, headaches, dizziness, gastrointestinal upset, irritation, kidney damage, seizures, reproductive effects
Target Organs:		None identified
Medical Conditions Aggravated By Exposure:		If you are allergic to penicillins, do not handle this product
Routes of Entry:		Ingestion, inhalation, skin and eye contact

The toxicological properties of this product have not been thoroughly investigated

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 monoxide, carbon dioxide, nitrogen oxides, sulfur oxides

8. REACTIVITY & CONDITIONS TO AVOID

Stability:	Stable
Hazardous Polymerization:	Will not occur
Conditions to Avoid:	Incompatibles
Incompatibles:	Strong oxidizing agents
Hazardous Decomposition Products:	Carbon monoxide, carbon dioxide, nitrogen oxides, sulfur 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

PRODUCT NAME: Amoxicillin, Trihydrate, USP Grade
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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: 42/43 – May cause sensitization by inhalation and skin contact

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

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