

# SAFETY DATA SHEET

#### 1. CHEMICAL IDENTIFICATION AND COMPANY INFORMATION

PRODUCT NAME: Adenine
PRODUCT NUMBER: A120

COMPANY INFO: PhytoTechnology Laboratories®

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EMERGENCY PHONE NUMBER: 1-800-535-5053 - US Only 1-352-323-3500 - International

RECOMMENDED USE: For Research Use Only

Products sold by *Phyto*Technology Laboratories® are intended for research and laboratory use

Danger

RESTRICTIONS ON USE: only. Products are not to be used as human or animal therapeutics, cosmetics, agricultural or

pesticidal products, food additives, or as household chemicals.

Signal Word:

#### 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

**GHS** Classification:

Pictogram:

H301 – Acute toxicity, Oral (Category 3)

GHS Label elements, including hazard and precautionary statements:

Hazard Statements: H301 – Toxic if swallowed.

Precautionary Statements:

P280 – Wear protective gloves/protective clothing/eye protection.

P301 + P310 – IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: 6-Aminopurine; Vitamin B<sub>4</sub>

CAS No.: 73-24-5Formula:  $C_5H_5N_5$ Molecular Weight: 135.13EC No.: 200-796-1

Ingredient	CAS Number	Percent	Hazardous	
Adenine	73-24-5	>99%	No exposure limits established by OSHA or ACGIH	

#### 4. FIRST AID MEASURES

General Advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous

area.

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.

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Inhalation May cause irritation to respiratory Safely remove victim to fresh air. If not breathing, institute

tract

cardiopulmonary resuscitation (CPR). If breathing is difficult, ensure clear airway and give oxygen. **Get medical attention.** 

Eye Contact Direct contact may cause irritation. Flush immediately with large amounts of water for at least 15

May cause redness, tearing, or

blurred vision.

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.

Most Important Symptoms or Effects, Both Acute and Delayed:

See section 2 and/or section 11

Recommendation for Immediate Medical Care and Special Treatment Needed:

No data available

#### 5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Water spray, carbon dioxide, dry chemical powder, or appropriate foam. Use

extinguishing media suitable for surrounding fire.

Special Protective Equipment and

Precaution for Firefighters:

In the event of a fire, wear full protective clothing and NIOSH approved selfcontained breathing apparatus. Evacuate the area and fight fire from a safe distance.

Hazardous Combustion Products: May emit toxic fumes under fire conditions

Toxic Gases Produced: Carbon dioxide, carbon monoxide, nitrogen oxides

# 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Use personal protection recommended in Section 8. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation, especially in confined areas. Evacuate personnel to safe areas. Avoid breathing dust.

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Method of Containment and

Cleanup:

Wear suitable protective clothing. Avoid dust formation. Carefully sweep up and remove. Place material in a dry container and cover. Remove from the area. Flush

spill area with water. Do not let products enter drains.

7. HANDLING AND STORAGE

Precaution for Safe Handling: Avoid contact with skin and eyes. Avoid dust formation and aerosols. Avoid

incompatible substances. Wash thoroughly after use.

Conditions for Safe Storage: Keep in a tightly closed container and store in a cool, dry, and well-ventilated area.

Incompatibilities: Strong oxidizing agent

Recommended Storage Temperature: Room Temperature

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA's Permissible Exposure Limits (PELs): No data available

Threshold Limit Values (TLVs): No data available

Engineering Controls: Handle in accordance to general industrial hygiene and safety practice.

Personal Protective Equipment (PPE):

Eye/Face Protection: Chemical safety glasses or goggles. Have eye-washing facilities readily available where

eye contact can occur.

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Skin Protection: Protective gloves

Body Protection: Lab coat

Respiratory Protection: Appropriate respirator

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White powder

pH (0.08 g/L): Under Development (5.25 - 6.25 suspected range)

Solubility: Soluble in water. (May take some time)

Melting Point: 360-365 °C (Dec) Vapor Density: No data available Vapor Pressure: No data available

Odor: Odorless

Odor Threshold: No data available
Viscosity: No data available
Relative Density: No data available

Evaporation Rate: No data available

Initial Boiling Point and

Boiling Range: No data available

Flammability (solid, gas): No data available

Partition coefficient:

n-octanol/water):

No data available

Auto-ignition Temperature: No data available
Decomposition Temperature: No data available
Flash Point (Closed Cup): No data available

Flammable Limits: Upper (%) – No data available Lower (%) – No data available

## 10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical Stability: Stable under normal conditions of use

Possibility of Hazard Reactions: Will not occur
Conditions to Avoid: Incompatibles

Incompatibles Materials: Strong oxidizing agents

Hazardous Decomposition Products: Carbon dioxide, carbon monoxide, nitrogen oxides

## 11. TOXICOLOGICAL INFORMATION

Toxicity: LD<sub>50</sub> (Oral-Rat)(mg/Kg): 227

LD<sub>50</sub> (Oral-Mouse)(mg/Kg) 783

 $LD_{50}$  (IP-Mouse)(mg/Kg): 100

Carcinogenicity: NTP: No

IARC: No Z List: No OSHA Reg: No

Reproductive Toxicity: No data available

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Symptoms Associated with

Overexposure:

Irritation, nausea, vomiting

Specific Target Organ

Single Exposure:

No data available

Toxicity:

Repeated Exposure: No data available

Target Organs: None identified

**Medical Conditions** 

None identified

Aggravated By Exposure:

Routes of Entry: Ingestion NIOSH/RTECS NO: AU6125000

# The toxicological properties of this product have not been thoroughly investigated

#### 12. ECOLOGICAL INFORMATION

No data available Ecotoxicity: Persistence and Degradability: No data available Bioaccumulative Potential: No data available Mobility in Soil: No data available Other Adverse Effects: No data available

#### 13. DISPOSAL CONSIDERATION

Dispose in accordance with all applicable federal, state, and local environmental Disposal Procedure:

regulations.

EPA Hazardous Waste Number: No data available

#### 14. TRANSPORT INFORMATION

Domestic (D.O.T.): Proper Shipping Name: Toxic solids, organic, n.o.s. (Adenine)

> Hazard Class: 6.1

Packing group: III UN: 2811

Marine pollutant: No Poison Inhalation Hazard: No

International:

IMDG: Proper Shipping Name: Toxic solids, organic, n.o.s. (Adenine)

> Hazard Class: 6.1

UN: 2811 Packing group: III EMS-No.: F-A, S-A

Marine pollutant: No

IATA: Proper Shipping Name: Toxic solids, organic, n.o.s. (Adenine)

> Hazard Class: 6.1

UN: 2811 Packing group: III

# 15. REGULATORY INFORMATION

TSCA: Yes

SARA TITLE III:

Section 302 (EHS) Ingredients: No

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Section 311/312 Hazard: Acute Health Hazard

Massachusetts Right to Know Components: No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right to Know Components: CAS NO.: 73-24-5 Adenine

New Jersey Right to Know Components: CAS NO.: 73-24-5 Adenine

California Prop. 65 Components: This product does not contain any chemicals known to State of California to

cause cancer, birth defects, or any other reproductive harm.

#### 16. OTHER INFORMATION

**HMIS Rating:** 

**NFPA Rating:** 

Health Hazard	Chronic Health Hazard	Flammability	Physical Hazard
2		0	0
Health Hazard	Fire Hazard	Reactivity Hazard	Special Hazard
2	0	0	

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products, food additives or as household chemicals.

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