

# 4,4'-Diamino-2,2'-bipyridine: sc-277685



The Power to Question

## MATERIAL SAFETY DATA SHEET

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

Product Name: 4,4'-Diamino-2,2'-bipyridine  
Catalog Number: sc-277685  
Supplier: Santa Cruz Biotechnology, Inc.  
2145 Delaware Avenue  
Santa Cruz, California 95060  
800.457.3801 or 831.457.3800  
Emergency: ChemWatch  
Within the US & Canada: 877-715-9305  
Outside the US & Canada: +800 2436 2255  
(1-800-CHEMCALL) or call +613 9573 3112

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Molecular formula:  $C_{10}H_{10}N_4$  CAS Number: 18511-65-8  
Molecular weight: 186.21

### 3. HAZARDS IDENTIFICATION

Irritating to eyes, respiratory system and skin.  
To the best of our knowledge the chemical, physical and toxicological properties have not been thoroughly investigated.

### 4. FIRST AID MEASURES

Eye contact: Immediately irrigate the eyes with copious amounts of eyewash solution or water for at least 15 minutes. Ensure adequate flushing of the eyes by separating the eyelids. Get medical attention.

Skin contact: Immediately wash skin with copious amounts of water and soap for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention.

Inhalation: Remove from exposure to fresh air, keep warm and at rest. If not breathing, give artificial respiration. If breathing difficult, give oxygen. Get medical attention.

Ingestion: Wash out mouth with water and give water to drink. Do not induce vomiting. Get medical attention immediately.

Note to physician: Treat symptomatically.

### 5. FIRE FIGHTING MEASURES

Suitable extinguishing media: Water spray, dry powder, carbon dioxide or foam.

Special fire fighting procedures:	Full protective clothing and self-contained breathing apparatus should be worn.
Unusual fire and explosions hazards:	The material may form flammable dust clouds in air. Take precautionary measures against static discharges.
Hazardous decomposition:	If involved in a fire, it may emit noxious and toxic fumes.

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## 6. ACCIDENTAL RELEASE MEASURES

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Personal precautions:	Wear self-contained breathing apparatus, rubber boots and rubber gloves.
Environmental precautions:	Do not allow material to enter drain or water courses. Spillage or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.
Methods for cleaning up:	Do not raise dust. Sweep up spilled material, place into a clean dry container and hold for disposal. Wash the spillage area clean. Washing must be prevented from entering surface water drains.

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## 7. HANDLING AND STORAGE

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Handling:	Use adequate ventilation. Avoid inhalation and contact with eyes or skin. Control dust formation. Wash thoroughly after handling.
Storage:	Keep container tightly closed. Store in a cool dry place.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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Eye protection:	Wear safety glasses or chemical splash goggles.
Skin protection:	Wear suitable protective clothing, such as laboratory coat.
Hand protection:	Wear chemical resistant rubber gloves.
Ventilation:	Adequate general or local exhaust ventilation is required.
Respiratory protection:	Wear appropriate NIOSH/MSHA approved respirator.

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## 9. PHYSICAL & CHEMICAL PROPERTIES

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Appearance:	solid
Odour:	Data not available.
Boiling point:	Not known
Melting point:	277 - 278 °C
Solubility in water:	Insoluble.
Solubility:	Soluble in ethanol.

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## 10. STABILITY AND REACTIVITY

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Conditions to avoid:	Not known.
Hazardous decomposition products:	If involved in a fire, it may emit noxious and toxic fumes. Carbon monoxide, carbon dioxide, nitrogen oxides.

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11. TOXICOLOGICAL INFORMATION

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To the best of our knowledge the toxicity of this material has not been determined, but by analogy with similar substances this material is likely to present the following:  
May be harmful by inhalation, ingestion or skin absorption. May cause skin and eye irritation.  
Toxic if swallowed. May cause adverse affects on the central nervous system.  
Long term exposure: Symptoms: By analogy with a similar substance this material is unlikely to present a carcinogenic hazard to man.

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12. ECOLOGICAL INFORMATION

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No data available.

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13. DISPOSAL CONSIDERATIONS

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Observe all federal, state and local environmental regulations. Incinerate through a licensed site.

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14. TRANSPORT INFORMATION

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Not hazardous for transport.

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15. REGULATORY INFORMATION

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Not classified according to EU regulations.

Caution: Substance not yet fully tested

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16. ADDITIONAL INFORMATION

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None

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*The above information is believed to be correct but does not purport to be complete and should be used only as a guide. The burden of safe use of this material rests entirely with the user.*

2/10/2010