

## SAFETY DATA SHEET

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifiers

|              |                                   |
|--------------|-----------------------------------|
| Product name | Alpha-alpha-Dipyridyl Solution    |
| CAS number   | 366-18-7                          |
| Synonyms     | 2, 2'-Dipyridyl; 2,2'-Bipyridine. |

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

|                 |                      |
|-----------------|----------------------|
| Identified uses | Laboratory Chemicals |
|-----------------|----------------------|

#### 1.3 Details of the supplier of the safety data sheet

|           |  |
|-----------|--|
| Company   | Lab Alley, LLC<br>12501 Pauls Valley Road<br>Austin, Texas 78737<br>U.S.A. |
| Telephone | 512-668-9918   |
| Fax       | 512-886-4008   |

#### 1.4 Emergency telephone

|                   |                              |          |
|-------------------|------------------------------|----------|
| Emergency Phone # | US & Canada: 1-800-535-5053  | INFOTRAC |
|                   | International 1-352-323-3500 | INFOTRAC |

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute oral toxicity Category 3  
Acute dermal toxicity Category 3

#### 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word

Danger

Hazard statements

Toxic if swallowed  
Toxic in contact with skin

Precautionary statements

Wash face, hands and any exposed skin thoroughly after handling  
Do not eat, drink or smoke when using this product  
Wear protective gloves/protective clothing/eye protection/face protection  
IF ON SKIN: Wash with plenty of soap and water  
Call a POISON CENTER or doctor/physician if you feel unwell  
Remove/Take off immediately all contaminated clothing  
Wash contaminated clothing before reuse  
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician  
Rinse mouth  
Store locked up  
Dispose of contents/container to an approved waste disposal plant

## 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

None identified.

## SECTION 3: Composition/information on ingredients

### 3.1 Components

| Chemical name   | Common name and synonyms | CAS number | Concentration |
|-----------------|--------------------------|------------|---------------|
| 2,2'-Bipyridine | 2, 2`-Dipyridyl          | 366-18-7   | 100%          |

## SECTION 4: First aid measures

### 4.1 Description of first-aid measures

**General advice**

Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

**If inhaled**

Remove to fresh air. If not breathing, give artificial respiration. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required.

**In case of skin contact**

Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.

**In case of eye contact** In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

**If swallowed** Do NOT induce vomiting. Call a physician or poison control center immediately.

#### 4.2 Most important symptoms and effects, both acute and delayed

None reasonably foreseeable.

#### 4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

**Suitable extinguishing media** Use an appropriate extinguishing media for the surrounding fire.

**Unsuitable extinguishing media** No information available.

#### 5.2 Specific hazards arising from the substance or mixture

Keep product and empty container away from heat and sources of ignition.

#### 5.3 Special protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

#### 5.4 Further information

**Flash Point** Not applicable.

**Autoignition Temperature** No information available.

##### Explosion limits

**Upper** No data available.

**Lower** No data available.

**Sensitivity to Mechanical Impact** No information available.

**Sensitivity to Static Discharge** No information available.

##### NFPA

| Health | Flammability | Instability | Physical hazards |
|--------|--------------|-------------|------------------|
| 3      | 1            | 0           | N/A              |

### SECTION 6: Accidental release measures

#### **6.1 Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas.

#### **6.2 Environmental precautions**

Should not be released into the environment. See Section 12 for additional Ecological Information.

#### **6.3 Methods and materials for containment and cleaning up**

Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

#### **6.4 Reference to other sections**

See section 12 for additional Ecological Information.

### **SECTION 7: Handling and storage**

#### **7.1 Precautions for safe handling**

Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Avoid dust formation. Use only under a chemical fume hood. Do not breathe (dust, vapor, mist, gas). Do not ingest. If swallowed then seek immediate medical assistance.

##### **Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice.

#### **7.2 Conditions for safe storage, including any incompatibilities**

##### **Storage conditions**

Keep containers tightly closed in a dry, cool and well-ventilated place.

##### **Incompatibilities**

Strong oxidizing agents.

### **SECTION 8: Exposure controls/personal protection**

#### **8.1 Occupational exposure limits**

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

#### **8.2 Exposure controls**

##### **Appropriate engineering controls**

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

##### **Personal protective equipment**

###### **Eye/face protection**

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

#### **Skin protection**

Wear appropriate protective gloves and clothing to prevent skin exposure.

#### **Body Protection**

Wear appropriate protective clothing to prevent skin exposure.

#### **Respiratory protection**

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

#### **Control of environmental exposure**

Handle in accordance with good industrial hygiene and safety practice.

## **SECTION 9: Physical and chemical properties**

### **9.1 Information on basic physical and chemical properties**

|   |                             |
|---|-----------------------------|
| Physical State                            | Solid                       |
| Appearance                                | Light Cream                 |
| Odor                                      | No information available    |
| Odor Threshold                            | No information available    |
| pH  |                             |
| Melting Point/Range                       | 69 - 70 °C / 156.2 - 158 °F |
| Boiling Point/Range                       | 273 °C / 523.4 °F           |
| Evaporation Rate                          | Not applicable              |
| Flammability (solid)                      | No information available    |
| Flammability or explosive limit           |                             |
| Upper                                     | No data available           |
| Lower                                     | No data available           |
| Vapor Pressure                            | Negligible                  |
| Vapor Density                             | Not applicable              |
| Density                                   | No information available    |
| Solubility                                | Insoluble in water          |
| Partition coefficient;<br>n-octanol/water | No information available    |
| Autoignition Temp                         | No information available    |
| Decomposition Temp                        | No information available    |
| Viscosity                                 | Not applicable              |
| Molecular Formula                         | C10H8N2                     |
| Molecular Weight                          | 156.19                      |
| VOC Content(%)                            | No information available    |
| Oxidizing properties                      | No information available    |

## 9.2 Other safety information

No information available.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

None known, based on information available.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

None under normal processing.

### 10.4 Conditions to avoid

Incompatible products.

### 10.5 Incompatible materials

Strong oxidizing agents.

### 10.6 Hazardous decomposition products

None under normal use conditions.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Product Information, Component Information

##### Acute toxicity

| Component       | LD50 Oral                   | LD50 Dermal              | LC50 Inhalation |
|-----------------|-----------------------------|--------------------------|-----------------|
| 2,2'-Bipyridine | LD50 = 100 mg/kg<br>( Rat ) | LD50 = 250 mg/kg ( Rat ) | Not listed      |

##### Skin corrosion/irritation

No information available.

##### Serious eye damage/eye irritation

No information available.

##### Respiratory or skin sensitization

No information available.

##### Germ cell mutagenicity

No information available.

##### Carcinogenicity

| Component       | CAS      | IARC       | NTP        | ACGIH      | OSHA       | Mexico     |
|-----------------|----------|------------|------------|------------|------------|------------|
| 2,2'-Bipyridine | 366-18-7 | Not Listed | Not Listed | Not Listed | Not Listed | Not Listed |

#### **Specific target organ toxicity - single exposure**

None Known.

#### **Specific target organ toxicity - repeated exposure**

None Known.

#### **Reproductive toxicity**

No information available.

#### **Chronic effects**

No information available.

### **11.2 Additional Information**

The toxicological properties have not been fully investigated.

## **SECTION 12: Ecological information**

### **12.1 Toxicity**

Do not empty into drains.

### **12.2 Persistence and degradability**

Insoluble in water.

### **12.3 Bio accumulative potential**

No information available.

### **12.4 Mobility in soil**

Is not likely mobile in the environment due its low water solubility.

### **12.5 Results of PBT and vPvB assessment**

No information available.

### **12.6 Endocrine disrupting properties**

No information available.

### **12.7 Other adverse effects**

The toxicological properties have not been fully investigated.

## **SECTION 13: Disposal considerations**

### **13.1 Waste Disposal Methods**

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

## SECTION 14: Transport information

### DOT (US)

|                      |                                      |
|----------------------|--------------------------------------|
| UN Number            | FS0001                               |
| Proper Shipping name | THIS PACKAGE CONFORMS TO 49CFR 173.4 |
| Hazard Class         | 173.4                                |
| Packaging Group      | III                                  |
| Technical name       | 2,2'-Bipyridine                      |

### IMDG

|                      |                              |
|----------------------|------------------------------|
| UN Number            | UN2811                       |
| Proper Shipping name | Toxic solid, organic, n.o.s. |
| Hazard Class         | 6.1                          |
| Packaging Group      | III                          |
| Technical name       | 2,2'-Bipyridine              |

### IATA

|                      |  |
|----------------------|--|
| UN Number            | FS61S3                                 |
| Proper Shipping name | DANGEROUS GOODS IN EXCEPTED QUANTITIES |
| Hazard Class         | 6.1                                    |
| Packaging Group      | III                                    |
| Technical name       | 2,2'-Bipyridine                        |

## SECTION 15: Regulatory information

### US federal regulations

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**  
Not applicable.

**CERCLA Hazardous Substance List (40 CFR 302.4)**  
Not applicable.

**SARA 304 Emergency release notification**  
Not applicable.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)**  
Not applicable.

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

**SARA 302 Extremely hazardous substance**  
Not applicable.

**SARA 311/312 Hazardous**  
See section 2 for more information.



**SARA 313 (TRI reporting)**

Not applicable.

**Other federal regulations**

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not applicable.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not applicable.

**Safe Drinking Water Act**

Not applicable.

**FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace**

Not applicable.

**US state regulations**

**US. Massachusetts RTK - Substance List**

Not applicable.

**US. New Jersey Worker and Community Right-to-Know Act**

Not applicable.

**US. Pennsylvania Worker and Community Right-to-Know Law**

Not applicable.

**California Proposition 65**

Not listed.

**SECTION 16: Other information**

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**SECTION 17: Disclaimer**

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.