

# Material Safety Data Sheet 2,2'-Dipyridyl

## Section 1 - Chemical Product and Company Identification

MSDS Name: 2,2'-Dipyridyl  
Catalog Numbers: YZ366-18-7  
Synonyms: alpha,alpha'-Dipyridyl; 2,2'-Bipyridine  
Company Identification: Shanghai Yongzeng Chemical Co.,Ltd  
Company Identification: (China) 679345055  
For information in China, call: +86 21 6528 1118  
Emergency Number, China: +86 13916182801

## Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name:	content %	EINECS#
366-18-7	2,2'-Dipyridyl	98%min	206-674-4

Hazard Symbols:



Risk Phrases: 20/21 25 36/37/38

## Section 3 - Hazards Identification

### EMERGENCY OVERVIEW

Harmful by inhalation and in contact with skin. Toxic if swallowed. Irrating to eyes, respiratory system and skin.

### Potential Health Effects

Eye: Causes eye irritation.

Skin: Causes skin irritation. Harmful if absorbed through the skin.

Ingestion: May cause irritation of the digestive tract. Poison by ingestion.

Inhalation: Harmful if inhaled. Causes respiratory tract irritation.

Chronic:

## Section 4 - First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Skin: Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion: Get medical aid immediately. Wash mouth out with water.

Inhalation: Get medical aid immediately. Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Notes to Physician: Treat symptomatically and supportively.

## Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Dusts at sufficient concentrations can form explosive mixtures with air.

Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or chemical foam.

## **Section 6 - Accidental Release Measures**

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions.

## **Section 7 - Handling and Storage**

Handling: Use only in a well-ventilated area. Minimize dust generation and accumulation. Do not breathe

dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing. Use only in a chemical fume hood.

Storage: Store in a cool, dry place. Store in a tightly closed container.

## **Section 8 - Exposure Controls, Personal Protection**

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Personal Protective Equipment

Eyes: Wear chemical splash goggles.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: 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

## **Section 9 - Physical and Chemical Properties**

Physical State: Crystalline powder

Color: white - almost white

Odor: Not available

pH: 7.5 (5 g/L aq. solution)

Vapor Pressure: Not available

Viscosity: 1.51 cst @90 deg C

Boiling Point: 272 - 273 deg C @760mmHg

Freezing/Melting Point: 69 - 72 deg C

Autoignition Temperature: Not available

Flash Point: 121 deg C ( 249.80 deg F)

Explosion Limits: Lower: Not available

Explosion Limits: Upper: Not available  
Decomposition Temperature: Not available  
Solubility in water: Slightly soluble  
Specific Gravity/Density:  
Molecular Formula: C<sub>10</sub>H<sub>8</sub>N<sub>2</sub>  
Molecular Weight: 156.19

## Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.  
Conditions to Avoid: High temperatures, incompatible materials.  
Incompatibilities with Other Materials: Strong oxidizing agents.  
Hazardous Decomposition Products: Nitrogen oxides, carbon monoxide, carbon dioxide.  
Hazardous Polymerization: Will not occur.

## Section 11 - Toxicological Information

RTECS#: CAS# 366-18-7: DW1750000  
LD50/LC50: RTECS:  
CAS# 366-18-7: Oral, mouse: LD50 = 330 mg/kg;  
Oral, rat: LD50 = 100 mg/kg;  
Carcinogenicity: 2,2'-Dipyridyl - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.  
Other: See actual entry in RTECS for complete information. The toxicological properties have not been fully investigated.

## Section 12 - Ecological Information

Ecotoxicity: Not available

## Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.  
Section 14 - Transport Information

IATA	IMO	RID/ADR
SOLID,	ORGANIC,	N.O.S.
Hazard Class: 6.1	6.1	6.1
UN Number: 2811	2811	2811
Packing Group: III	III	III

## Section 15 - Regulatory Information

### US Federal

TSCA

CAS# 366-18-7 is listed on the TSCA Inventory.

## **Section 16 - Other Information**

MSDS Creation Date: 7/19/2008

Revision #2 Date 3/17/2006

Revisions were made in Sections: 14

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