

# HazTech Systems, Inc. SAFETY DATA SHEET

No Information available

Revision number: 2 Revision date: 06/22/2015

# 1. IDENTIFICATION

Product name: a, a'dipyridyl

Product code: RE2315/RE2024

Synonyms: 2, 2`-Dipyridyl; 2,2`-Bipyridine.

CAS: 366-18-7

RTECS # Not available

CI#: Not available

Recommended use: Laboratory chemicals.

Company:

HazTech Systems, Inc. 4996 Gold Leaf Dr Mariposa, CA 95338 U.S.A.

Telephone:

Uses advised against:

1-800-543-5487 / 1-209-966-8088

Fax:

1-209-966-8089

e-mail:

sales@hazcat.com www.hazcat.com Chemical Emergencies:

HazTech Systems, Inc. (8:00am - 5:00pm) PST

1-800-543-5487

Transportation Emergencies:

Chemtrec 24-Hour 1-800-424-9300 (U.S.A.) 1-703-527-3887 (International)

# 2. HAZARD(S) IDENTIFICATION

# Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity
Category 3
Acute dermal toxicity
Category 4
Acute Inhalation Toxicity - Dusts and Mists
Category 4
Skin Corrosion/irritation
Category 2
Serious Eye Damage/Eye Irritation
Category 2
Specific target organ toxicity (single exposure)
Category 3
Target Organs - Respiratory system.

# **Label Elements**

# Signal Word

Danger

# **Hazard Statements**

Toxic if swallowed

Harmful in contact with skin

Harmful if inhaled

Causes skin irritation

Causes serious eye irritation

May cause respiratory irritation





a, a'dipyridyl Revision Date 06/22/15

# 2. HAZARDS IDENTIFICATION

# **Precautionary Statements**

Prevention

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. Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician if you feel unwell

Skin

IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or doctor/physician if you feel unwell.

If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

Ingestion

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth.

Storage

Store locked up

Store in a well-ventilated place. Keep container tightly closed

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None identified

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %
2,2'-Bipyridine	366-18-7	100

4.	FIRST	AID	<b>MEASURES</b>

**Eye Contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Immediate medical attention is required.

**Skin Contact** Wash off immediately with plenty of water for at least 15 minutes. Immediate medical

attention is required.

**Inhalation** Move to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth

resuscitation if victim ingested or inhaled the substance; induce artificial respiration with a

respiratory medical device. Immediate medical attention is required.

**Ingestion** Do not induce vomiting. Call a physician or Poison Control Center immediately.

Most important symptoms/effects
Notes to Physician

No information available.
Treat symptomatically

# 5. FIREFIGHTING MEASURES

Unsuitable Extinguishing Media No information available

Flash Point

Method -No information availableAutoignition TemperatureNo 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

Specific Hazards Arising from the Chemical

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

## **Hazardous Combustion Products**

None known

### 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.

**NFPA** 

Health	Flammability	Instability	Physical hazards
3	1	0	N/A

a, a'dipyridyl Revision Date 06/22/15

ACCIDENTAL RELEASE MEASURES

Ensure adequate ventilation. Use personal protective equipment. **Personal Precautions** 

**Environmental Precautions** See Section 12 for additional ecological information.

Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust Methods for Containment and Clean

formation. Use spark-proof tools and explosion-proof equipment.

HANDLING AND STORAGE

Ensure adequate ventilation. Wear personal protective equipment. Handling

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

EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Guidelines** This product does not contain any hazardous materials with occupational exposure limits

established by the region specific regulatory bodies.

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations **Engineering Measures** 

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

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure.

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard Respiratory Protection

> 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.

Handle in accordance with good industrial hygiene and safety practice. Hygiene Measures

# PHYSICAL AND CHEMICAL PROPERTIES

Solid **Physical State Appearance** Light cream

Odor No information available

Odor Threshold No information available

pН

Melting Point/Range 69 70 °C °C

Boiling Point/Range

Flash Point

**Evaporation Rate** negligible

Flammability (solid,gas) No information available

Flammability or explosive limits

Upper No data available Lower No data available Vapor Pressure negligible

Vapor Density No information available Relative Density No information available Solubility Insoluble in water

Partition coefficient; n-octanol/water No data available **Autoignition Temperature** No information available

**Decomposition Temperature** No information available No information available Viscosity

C10H8N2 Molecular Formula 156.19 Molecular Weight

# STABILITY AND REACTIVITY

Reactive Hazard None known, based on information available

Stability Stable under normal conditions.

Conditions to Avoid Incompatible products.

**Incompatible Materials** Strong oxidizing agents

**Hazardous Decomposition Products** None under normal use conditions

Hazardous polymerization does not occur. Hazardous Polymerization

**Hazardous Reactions** None under normal processing. a, a'dipyridyl Revision Date 06/22/15

# 11. TOXICOLOGICAL INFORMATION

# **Acute Toxicity**

**Component Information** 

Component LD50 Oral		LD50 Dermal	LC50 Inhalation		
2,2'-Bipyridine	100 mg/kg ( Rat )	250 mg/kg (Rat)	Not listed		
Toxicologically Synergistic	No information available				

**Products** 

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation No information available No information available Sensitization

The table below indicates whether each agency has listed any ingredient as a carcinogen. Carcinogenicity

Component	CAS-No	IARC	NTP ACGIH		OSHA	Mexico	
2,2'-Bipyridine	366-18-7	Not listed					

**Mutagenic Effects** No information available Reproductive Effects No information available. **Developmental Effects** No information available. No information available. Teratogenicity STOT - single exposure STOT - repeated exposure Respiratory system None known

Aspiration hazard No information available Symptoms / effects,both acute and No information available

delayed

**Endocrine Disruptor Information** No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

# **ECOLOGICAL INFORMATION**

**Ecotoxicity** 

Do not empty into drains.

Persistence and Degradability No information available Bioaccumulation/ Accumulation No information available. Mobility No information available.

#### **DISPOSAL CONSIDERATIONS** 13.

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.

#### TRANSPORT INFORMATION 14.

DOT

FS0001 UN-No

Proper Shipping Name THIS PACKAGE CONFORMS TO 49CFR 173.4

Proper technical name (2,2'-BIPYRIDINE)

Hazard Class 173.4 **Packing Group** III

**TDG** 

UN-No UN2811

Proper Shipping Name TOXIC SOLID, ORGANIC, N.O.S.

**Hazard Class** 6.1 **Packing Group** III

<u>IATA</u>

UN-No

Proper Shipping Name DANGEROUS GOODS IN EXCEPTED QUANTITIES

**Hazard Class** 6.1 **Packing Group** III

**IMDG/IMO** 

UN-No UN2811

TOXIC SOLID, ORGANIC, N.O.S. Proper Shipping Name

**Hazard Class** 6.1 Ш **Packing Group** 

a, a'dipyridyl Revision Date 06/22/15

## 15. REGULATORY INFORMATION

#### International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
2,2'-Bipyridine	X	X	-	206-674-4	-		X	X	X	X	X

# Legend:

- X Listed
- E Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
- F Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
- N Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
- P Indicates a commenced PMN substance
- R Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
- S Indicates a substance that is identified in a proposed or final Significant New Use Rule
- T Indicates a substance that is the subject of a Section 4 test rule under TSCA.
- XU Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).
- Y1 Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
- Y2 Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

# **U.S. Federal Regulations**

TSCA 12(b) Not applicable SARA 313 Not applicable

SARA 311/312 Hazardous Categorization

Acute Health Hazard Yes
Chronic Health Hazard No
Fire Hazard No
Sudden Release of Pressure Hazard No
Reactive Hazard No

Clean Water Act
Not applicable
Clean Air Act
Not applicable
OSHAOccupational Safety and Health Administration

Not applicable **CERCLA**Not applicable

California Proposition 65 This product does not contain any Proposition 65 chemicals

State Right-to-Know Not applicable

U.S. Department of Transportation
Reportable Quantity (RQ): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and

the SDS contains all the information required by the CPR

WHMIS Hazard Class D1A Very toxic materials

D2B Toxic materials

# 16. REGULATORY INFORMATION

**Revision Date:** 06/22/2015

Prepared by: HazTech Systems, Inc.

This information is based on HazTech Systems, Inc.'s, current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product