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	See Section 3
Synonyms	No information available

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 12501 Pauls Valley Road Austin, Texas 78737 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)

Reproductive Toxicity - Category 1 - H360 - P201, P202, P280, P308+P313, P405, P501

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word Danger

Hazard statements H360 May damage fertility or the unborn child.

Precautionary statements
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P280 Wear protective gloves and eye protection.
P308+P313 IF exposed or concerned: Get medical attention.
P405 Store locked up.
P501 Dispose of contents in accordance with local, state, federal and international regulations.

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

Data not available.

SECTION 3: Composition/information on ingredients

3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration
Water	No information available	7732-18-5	99.5%
2,2'-Bipyridine	No information available	366-18-7	0.5%

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice

If inhaled Not expected to require first aid. If necessary, remove to fresh air.

In case of skin contact May cause irritation and dermatitis.

In case of eye contact May cause irritation, redness, pain, and tearing.

If swallowed Dilute with water or milk. Do not induce vomiting. Call a physician if necessary.

4.2 Most important symptoms and effects, both acute and delayed

May damage fertility or the unborn child. May cause irritation to areas of contact. Wash areas of contact with water. EYE CONTACT: May cause irritation, redness, pain, and tearing. SKIN CONTACT: May cause irritation and dermatitis.

4.3 Indication of any immediate medical attention and special treatment needed

Not expected to require special treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Use any means suitable for extinguishing surrounding fire.

Unsuitable extinguishing media No information available.

5.2 Specific hazards arising from the substance or mixture

Not considered to be a fire or explosion hazard.

5.3 Special protective equipment and precautions for firefighters

Use protective clothing and breathing equipment appropriate for the surrounding fire.

5.4 Further information

Flash Point No information available

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
1	0	0	N/A

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective gloves and eye protection.

6.2 Environmental precautions

No information available

6.3 Methods and materials for containment and cleaning up

Absorb with suitable material and dispose of in accordance with local regulations. Small amounts may be flushed to the sewer with excess water.

6.4 Reference to other sections

No information available

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with eyes and skin.

Hygiene measures

As with all chemicals, wash hands thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Protect from freezing and physical damage. Store locked up.

Incompatibilities

See Section 10.

SECTION 8: Exposure controls/personal protection

8.1 Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

No information available

US. ACGIH Threshold Limit Values

No information available

US. NIOSH: Pocket Guide to Chemical Hazards

No information available

Biological occupational exposure limits

No information available

8.2 Exposure controls

Appropriate engineering controls

No specific controls are needed. Normal room ventilation is adequate.

Personal protective equipment

Eye/face protection
Wear protective gloves and eye protection. Safety glasses or goggles.

Skin protection
Wear protective gloves and eye protection.

Body Protection
Chemical resistant gloves.

Respiratory protection
Normal room ventilation is adequate.

Control of environmental exposure
No information available

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical State	Clear, colorless
Appearance	Liquid
Odor	Data not available.
Odor Threshold	Data not available.
pH	Data not available.
Melting Point/Range	Approximately 0°C
Boiling Point/Range	Approximately 100°C - Approximately 100°C
Evaporation Rate	Data not available.
Flammability (solid)	Data not available.
Flammability or explosive limit	
Upper	Data not available.
Lower	Data not available.
Vapor Pressure	Data not available.
Vapor Density	Data not available.
Density	1.01
Solubility	Miscible
Partition coefficient; n-octanol/water	Data not available.
Autoignition Temp	Data not available.
Decomposition Temp	Data not available.
Viscosity	Data not available.
Molecular Formula	Data not available.
Molecular Weight	Data not available.
VOC Content(%)	Data not available.

Oxidizing properties	Data not available.

9.2 Other safety information Data not available.

SECTION 10: Stability and reactivity

10.1 Reactivity
Stable under normal conditions of use and storage.

10.2 Chemical stability
Stable under normal conditions of use and storage.

10.3 Possibility of hazardous reactions
Data not available.

10.4 Conditions to avoid
Avoid incompatible materials.

10.5 Incompatible materials
Strong oxidizing agents.

10.6 Hazardous decomposition products
Will not occur.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Product Information, Component Information

Acute toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Bipyridine	Rat: 100 mg/kg	Not listed	Not listed

Bipyridine is investigated as a tumorigen, mutagen, reproductive effector.

Skin corrosion/irritation
Not applicable.

Serious eye damage/eye irritation
Not applicable.

Respiratory or skin sensitization
Not applicable.

Germ cell mutagenicity
Not applicable.

Carcinogenicity
Not applicable.

Specific target organ toxicity - single exposure
Data not available.

Specific target organ toxicity - repeated exposure
Data not available.

Reproductive toxicity
May damage fertility or the unborn child. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves and eye protection. IF exposed or concerned: Get medical attention. Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

Chronic effects
Data not available.

11.2 Additional Information
Data not available.

SECTION 12: Ecological information

12.1 Toxicity
Not applicable.

12.2 Persistence and degradability
Data not available.

12.3 Bio accumulative potential
Data not available.

12.4 Mobility in soil
Data not available.

12.5 Results of PBT and vPvB assessment
Data not available.

12.6 Endocrine disrupting properties
Data not available.

12.7 Other adverse effects

Data not available.

SECTION 13: Disposal considerations

13.1 Waste Disposal Methods

Data not available.

SECTION 14: Transport information

DOT (US) Not regulated

IMDG Not regulated

IATA Not regulated

SECTION 15: Regulatory information

US federal regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
2,2'-Bipyridine (CAS # 366-18-7): Present
Water (CAS # 7732-18-5): Present

CERCLA Hazardous Substance List (40 CFR 302.4)
No information available.

SARA 304 Emergency release notification
No information available.

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

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance
Not listed.

SARA 311/312 Hazardous
Not listed.

SARA 313 (TRI reporting)
Not listed.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List
No information available.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
No information available.

Safe Drinking Water Act
No information available.

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace
No information available.

US state regulations

US. Massachusetts RTK - Substance List
Not listed.

US. New Jersey Worker and Community Right-to-Know Act
Not listed.

US. Pennsylvania Worker and Community Right-to-Know Law
Water (CAS # 7732-18-5): Present

California Proposition 65
Not listed.

SECTION 16: Other information

Date of Issue: 5/22/2025
Revision Date: 9/25/2026

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.