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## MATERIAL SAFETY DATA SHEET (MSDS)

### 2,2'-BIPYRIDYL AR (2,2'-DIPYRIDYL)

#### 1. Identification of the substance/mixture and of the company/undertaking

##### 1.1. Product identifier

Trade name : 2,2'-BIPYRIDYL AR (2,2'-DIPYRIDYL)

Product code : B0042300025

Identification of the product : 2,2'-BIPYRIDYL AR 99.5%  
CAS No :366-18-7

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

Use : Industrial. For professional use only.

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

##### Company identification

SUVCHEM  
Chaitanya Tower, 2nd Floor, Office # 206,  
Siddharth Nagar, S.V. Road,  
Goregaon (West), Mumbai - 400062,  
Maharashtra, India.  
Contact: +91 22 28725393 / 94 / 95  
Email ID: info@suvchem.com/care@suvchem.com

##### 1.4. Emergency telephone number

Phone no. : + 91 22 28725393 / 94 / 95 (9:00am - 6:00 pm) [ Office hours ]

#### 2. Hazards identification -DSD

##### 2.1. Classification of the substance or mixture

##### Classification EC 67/548 or EC 1999/45

Classification : T; R25

##### Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

Health hazards : Acute toxicity, Oral - Category 3 - Danger (CLP : Acute Tox. 3) H301

##### 2.2. Label elements

##### Labelling EC 67/548 or EC 1999/45

Symbol(s)



**MATERIAL SAFETY DATA SHEET (MSDS)**
**2,2'-BIPYRIDYL AR (22'-DIPYRIDYL)**
**2. Hazards identification -DSD (continued)**

|             |  |
|-------------|--|
| Symbol(s)   | : T : Toxic  |
| R Phrase(s) | : R25 : Toxic if swallowed.  |
| S Phrase(s) | : S36 : Wear suitable protective clothing.<br>S37 : Wear suitable gloves.<br>S45 : In case of accident or if you feel unwell, seek medical advice immediately ( show the label when possible). |

**Labelling Regulation EC 1272/2008 (CLP)**
**Hazard pictograms**


|                           |  |
|---------------------------|--|
| Signal words              | : Danger   |
| Hazard statements         | : H301 : Toxic if swallowed.   |
| Precautionary statements  |  |
| • Prevention              | : P264: Wash thoroughly after handling.<br>P270: Do not eat, drink or smoke when using this product.   |
| • Response                | : P301+P310: IF SWALLOWED : Immediately call a POISON CENTER or doctor.  |
| • Storage                 | : P405: Store locked up.   |
| • Disposal considerations | : P501: Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. |

**2.3. Other hazards**

|               |   |
|---------------|---|
| Other hazards | : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH. |
|---------------|---|

**3. Composition/information on ingredients**

|                         |  |
|-------------------------|--|
| Substance / Preparation | : 2-2-BIPYRIDYL AR 99.5%<br>CAS No :366-18-7<br>Substance. |
|-------------------------|--|

Contains no other components or impurities which will influence the classification of the product.

**4. First aid measures**
**4.1. Description of first aid measures**

|              |   |
|--------------|---|
| Inhalation   | : Assure fresh air breathing. Allow the victim to rest.   |
| Skin contact | : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. |

## MATERIAL SAFETY DATA SHEET (MSDS)

### 2,2'-BIPYRIDYL AR (22'-DIPYRIDYL)

#### 4. First aid measures (continued)

- Eye contact** : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
- Ingestion** : Immediately call a POISON CENTER or doctor. Do NOT induce vomiting. Rinse mouth. Specific treatment (see on this label).

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

- Symptoms relating to use** : Swallowing a small quantity of this material will result in serious health hazard.

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

- General information** : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

#### 5. Fire-fighting measures

##### 5.1. Extinguishing media

- Suitable extinguishing media** : Foam. Dry powder. Carbon dioxide. Water spray. Sand.
- Unsuitable extinguishing media** : Do not use a heavy water stream.
- Surrounding fires** : Use water spray or fog for cooling exposed containers.

##### 5.2. Special hazards arising from the substance or mixture

- Hazardous combustion products** : Under fire conditions, hazardous fumes will be present.

##### 5.3. Advice for fire-fighters

- Protection against fire** : Do not enter fire area without proper protective equipment, including respiratory protection.
- Special procedures** : Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

#### 6. Accidental release measures

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

- For emergency responders** : Equip cleanup crew with proper protection. Ventilate area.
- For non-emergency personnel** : Evacuate unnecessary personnel.

##### 6.2. Environmental precautions

## MATERIAL SAFETY DATA SHEET (MSDS)

### 2,2'-BIPYRIDYL AR (22'-DIPYRIDYL)

#### 6. Accidental release measures (continued)

**Environmental precautions** : Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

#### 6.3. Methods and material for containment and cleaning up

**Clean up methods** : On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.

#### 6.4. Reference to other sections

See section 8. Exposure controls/personal protection

#### 7. Handling and storage

##### 7.1. Precautions for safe handling

**Handling** : Wash thoroughly after handling. Do not eat, drink or smoke when using this product.

**Technical protective measures** : Provide good ventilation in process area to prevent formation of vapour.

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

**Storage** : Keep only in the original container in a cool, well ventilated place. Keep container closed when not in use.

**Storage - away from** : Strong bases. Strong acids. Sources of ignition. Direct sunlight.

##### 7.3. Specific end use(s)

**Specific end use(s)** : None.

#### 8. Exposure controls/personal protection

##### 8.1. Exposure controls

**Personal protection** : Avoid all unnecessary exposure.

- **Respiratory protection** : Wear approved mask.
- **Hand protection** : Wear protective gloves.
- **Eye protection** : Chemical goggles or safety glasses.
- **Others** : When using, do not eat, drink or smoke.

##### 8.2. Control parameters

**Occupational Exposure Limits** : No data available.

**MATERIAL SAFETY DATA SHEET (MSDS)**
**2,2'-BIPYRIDYL AR (22'-DIPYRIDYL)**
**9. Physical and chemical properties**
**9.1. Information on basic physical and chemical properties**

|  |                        |
|--|------------------------|
| Physical state at 20 °C                | : Solid.               |
| Colour                                 | : White crystalline    |
| Odour                                  | : Characteristic odour |
| Odour threshold                        | : No data available.   |
| pH value                               | : Not applicable.      |
| Melting point [°C]                     | : 69 - 71 °C           |
| Decomposition point [°C]               | : N/A                  |
| Critical temperature [°C]              | : N/A                  |
| Auto-ignition temperature [°C]         | : N/A                  |
| Flammability (solid, gas)              | : N/A                  |
| Flash point [°C]                       | : N/A                  |
| Boiling point [°C]                     | : 272-275 ° C          |
| Initial boiling point [°C]             | : 272° C               |
| Final boiling point [°C]               | : 275 ° C              |
| Evaporation rate                       | : N/A                  |
| Vapour pressure [20°C]                 | : N/A                  |
| Vapour pressure mm/Hg                  | : N/A                  |
| Vapour density                         | : N/A                  |
| Density [g/cm <sup>3</sup> ]           | : N/A                  |
| Relative density, gas (air=1)          | : N/A                  |
| Relative density, liquid (water=1)     | : N/A                  |
| Solubility in water [% weight]         | : Soluble in water     |
| Solubility in water                    | : N/A                  |
| Log Pow octanol / water at 20°C        | : No data available.   |
| Solubility                             | : N/A                  |
| Viscosity at 40°C [mm <sup>2</sup> /s] | : N/A                  |

**9.2. Other information**

|                              |                      |
|------------------------------|----------------------|
| Explosive properties         | : N/A                |
| Explosion limits - upper [%] | : N/A                |
| Explosion limits - lower [%] | : N/A                |
| Oxidising properties         | : No data available. |

**10. Stability and reactivity**
**10.1. Reactivity**

**MATERIAL SAFETY DATA SHEET (MSDS)**
**2,2'-BIPYRIDYL AR (22'-DIPYRIDYL)**
**10. Stability and reactivity (continued)**

**Reactivity** : Not established.

**10.2. Chemical stability**

**Chemical stability** : Stable under recommended storage conditions.

**10.3. Possibility of hazardous reactions**

**Hazardous reactions** : Not established.

**10.4. Conditions to avoid**

**Conditions to avoid** : Direct sunlight. Extremely high or low temperatures.

**10.5. Incompatible materials**

**Materials to avoid** : Strong acids. Strong bases.

**10.6. Hazardous decomposition products**

**Hazardous decomposition products** : Fumes. Carbon monoxide. Carbon dioxide.

**11. Toxicological information**
**11.1. Information on toxicological effects**
**Acute toxicity**

- **Inhalation** : Based on available data, the classification criteria are not met.
- **Dermal** : Based on available data, the classification criteria are not met.
- **Ingestion** : Toxic if swallowed.

**Corrosion** : Based on available data, the classification criteria are not met.

**Irritation** : Based on available data, the classification criteria are not met.

**Sensitization** : Based on available data, the classification criteria are not met.

**Mutagenicity** : Based on available data, the classification criteria are not met.

**Carcinogenicity** : Based on available data, the classification criteria are not met.

**Toxic for reproduction** : Based on available data, the classification criteria are not met.

**STOT-single exposure** : Based on available data, the classification criteria are not met.

**STOT-repeated exposure** : Based on available data, the classification criteria are not met.

**Aspiration hazard** : Based on available data, the classification criteria are not met.

**MATERIAL SAFETY DATA SHEET (MSDS)**
**2,2'-BIPYRIDYL AR (22'-DIPYRIDYL)**
**12. Ecological information**
**12.1. Toxicity**

**Toxicity information** : Not established.

**12.2. Persistence - degradability**

**Persistence - degradability** : Biodegradable.

**12.3. Bioaccumulative potential**

**Bioaccumulative potential** : Not established.

**12.4. Mobility in soil**

**Mobility in soil** : Not established.

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

**Results of PBT and vPvB assessment** : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

**12.6. Other adverse effects**

**Environmental precautions** : Avoid release to the environment.

**13. Disposal considerations**
**13.1. Waste treatment methods**

**General** : Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations.  
 Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

**Special precautions** : Hazardous waste due to toxicity.

**14. Transport information**
**14.1. Land transport (ADR-RID)**

**UN N°** : 2811

**H.I. nr** : 60

**ADR - Class** : 6.1





**MATERIAL SAFETY DATA SHEET (MSDS)**

**2,2'-BIPYRIDYL AR (2,2'-DIPYRIDYL)**

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

**DISCLAIMER:**

- **SUVCHEM** Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
- **SUVCHEM** shall not be responsible for any damage resulting from handling or from contact with the above product.
- **SUVCHEM** provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

**End of document**