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

1.1. Product identifier
Trade name: 2,2'-BIPYRIDYL AR (22'-DIPYRIDYL)
Product code: B0042300005
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): ☠
2. Hazards identification -DSD (continued)

Symbol(s) : T : Toxic
R Phrase(s) : R25 : Toxic if swallowed.
S Phrase(s) : S36 : Wear suitable protective clothing.
          : S37 : Wear suitable gloves.
          : 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.
          : 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 regulations.

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%
          : CAS No : 366-18-7
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.
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


**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
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


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.
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/cm3] : 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 [mm2/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
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

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.
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
14. Transport information (continued)

Labelling - Transport

6.1 : Toxic substances.

ADR - Classification code

T2
T2
T2

ADR - Group

III

14.2. Sea transport (IMDG) [English only]

UN N°

2811

IMO-IMDG - Class or division

6.1 : Toxic substances.

IMO-IMDG - Packing group

III

14.3. Air transport (ICAO-IATA) [English only]

UN N°

2811

IATA - Class or division

6.1 : Toxic substances.

IATA - Packing group

III

15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Safety, health and environmental regulations/legislation specific for the substance or mixture

Ensure all national/local regulations are observed.

REACH Restrictions - Annex XVII

The components of this product are not subject to restrictions.

REACH Authorisation - Annex XIV

The components of this product are not subject to authorization.

15.2. Chemical Safety Assessment

Chemical Safety Assessment

It has not been carried out.

16. Other information

Revision

Revision - See : *

Abbreviations and acronyms

PBT: persistent, bioaccumulative and toxic.

vPvB: very persistent and very bioaccumulative

Sources of key data used

MATERIAL SAFETY DATA SHEET (MSDS)

2,2’-BIPYRIDYL AR (22’-DIPYRIDYL)

In accordance with REACH Regulation (CE) Nº 1907/2006 and with CLP Regulation (CE) Nº 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