

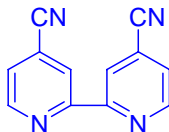


Sapala Organics Private Limited

Plot No: 146B & 147, Phase -II, IDA Mallapur, Hyderabad-500076, Andhra Pradesh, India
Phone: +91-40-27170174, 75, 76 Fax: +91-40-27150601, info@sapalaorganics.com, www.sapalaorganics.com

SPECIFICATION

Chemical Name : 4,4'-Dicyano-2,2'-bipyridine
CAS Number : 67491-43-4
Product Number : SBP-0004
Structure :



Description : White color powder
¹H-NMR : Shall comply with the structure
Mass spectrum : Corresponding to the molecular weight 207 (M+1)
Purity (by HPLC) : NLT 98%

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MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF SUBSTANCE AND SUPPLIER

Name on Label : 4,4'-Dicyano-2,2'-bipyridine
Alternative Names:

2. COMPOSITION AND INFORMATION ON COMPONENTS

Name : 4,4'-Dicyano-2,2'-bipyridine
Minor Impurities : Not determined
CAS Number : 67491-43-4
EINECS Number : Not listed
EEC Number : None

3. HAZARDS IDENTIFICATION

Designation : No specific hazard
Risk Phrases : -

4. FIRST AID MEASURES

Inhalation : Remove to fresh air. Seek medical advice if symptoms persist.
Eye Contact : Flush with copious amounts of water for at least 15 minutes.
Skin Contact : Wash affected area with soap and water. Rinse thoroughly.
Ingestion : Rinse out mouth and drink lots of water. If unusual symptoms are observed, seek medical advice.

5. FIRE FIGHTING MEASURES

Extinguishing Medium : Use fire fighting measures which suit the environment and take into account other materials which may be involved. In general, water-based extinguishers should not be used for fires involving organic materials. Use carbon dioxide or dry powder.
Protective Equipment : Wear hand-gloves, nose mask and goggles.
Hazardous Products of Combustion May Include : carbon monoxide, carbon dioxide, hydrogen chloride (hydrochloric acid), oxides of nitrogen, nitric acid.

6. ACCIDENTAL RELEASE MEASURES

Personal Protection : Wear protective equipment including hand-gloves and eye protection. Keep unprotected persons away.
Environmental Protection : Take precautions to ensure product does not enter the drainage system.
Collection : Mix with vermiculite or proprietary absorbent material and transfer to sealed containers for disposal.

7. HANDLING AND STORAGE

Handling : Chemicals should be used only by those trained in handling potentially hazardous materials. Rubber gloves, eye protection and protective clothing should be worn. Operations should be carried out in an efficient fume hood or equivalent system.
Storage : Store in tightly sealed containers in a cool place. Protect from moisture.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Respiratory : Avoid inhalation of product. Handle in an efficient fume hood or equivalent system.
Eye : Avoid eye contact. Wear safety spectacles or goggles.
Hands and Body : Avoid skin contact. Wear rubber gloves and protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : White colored powder
Physical Constants : -
Molecular Formula : $C_{12}H_6N_4$
Formula Weight : 206.2 amu
Water Solubility : Not available
Density : Not available
Melting Range : Not available
Flash Point : Not available



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10. STABILITY AND REACTIVITY

Specific Hazard : -
Incompatibilities : -
Decomposition : Hazardous products of decomposition may include: carbon monoxide, carbon dioxide, hydrogen chloride (hydrochloric acid), oxides of nitrogen, nitric acid.

11. TOXICOLOGICAL INFORMATION

RTECS Number : Not listed
Acute Toxicity : -
LD50 : No data reported

12. ECOLOGICAL EFFECTS

General : Take care to prevent chemicals from entering the ground, water courses or drainage systems.

13. DISPOSAL CONSIDERATIONS

Disposal : Disposal should be via an approved contractor and should take full account of local regulations.

14. TRANSPORT INFORMATION

UN Number : None
Land Transport : -
ADR/RIC Code/Class : Not Restricted
Maritime Transport IMDG Code/Class : Not Restricted
Air Transport IATA Code/Class : Not Restricted

15. REGULATORY INFORMATION

CAS Number : 67491-43-4
EINECS Number : Not listed
EEC Number : -
UN Number : None
RTECS Number : Not listed
Hazard Indication : No specific hazard
Risk and Safety Phrases : None specified - Exercise all due care in use
TSCA : Not listed. For research and development use only.

16. OTHER INFORMATION

DISCLAIMER
For R&D use only. Not for drug, household or other uses

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