SAFETY DATA SHEET: 2,2'-BIPYRIDINE

1. IDENTIFICATION

Product Name: 2,2'-BIPYRIDINE
Synonyms: 2,2'-Dipyridyl
Formula and Formula Weight: (C5H4N)2  156.18
Integra numbers beginning with: B570.10
Recommended Use: Commercial/industrial use
Restrictions on Use: No information available

INTEGRA Chemical Company
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Kent WA 98032
Phone: 253-479-7000

24 Hour Emergency Response: CHEMTREC 800-424-9300 (Outside USA 703-527-3887)

2. HAZARDS IDENTIFICATION

OSHA Classification:
Acute Toxicity - Oral: 3 Toxic if swallowed.
Acute Toxicity - Dermal: 4 Harmful in contact with skin.

Signal Word: DANGER

Precautionary Statements

Prevention:
- Wash thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Wear protective gloves, protective clothing.

Response:
- Rinse mouth. If swallowed: Immediately call a poison center, doctor.
- If on skin: Wash with plenty of water.
- Call a poison center, doctor if you feel unwell.
- Specific treatment (see first aid section on this label)
- Take off contaminated clothing and wash it before reuse.

Storage:
Store locked up.

Disposal:
Dispose of contents, container in accordance with all governmental regulations.

Hazard Not Otherwise Classified: No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Component</th>
<th>Synonyms</th>
<th>CAS #</th>
<th>% Weight</th>
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<tbody>
<tr>
<td>2,2'-Bipyridine</td>
<td>2,2'-Dipyridyl</td>
<td>00366-18-7</td>
<td>100</td>
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4. FIRST AID MEASURES

Immediately call a poison center or doctor if swallowed, or if you feel unwell.

Inhalation: Remove person to fresh air.
Eye Contact: Flush eyes with water for at least 15 minutes. Seek immediate medical attention.
Skin Contact: Flush skin with plenty of water. Seek medical attention.
Ingestion: Rinse mouth and give victim large quantities of water. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

Additional notes: Symptoms and effects include skin, eye, respiratory irritation; death.

5. FIRE-FIGHTING MEASURES

Material is not flammable. Use extinguishing media suitable to surrounding materials.
Use water to cool nearby containers and structures. Wear full protective equipment, including suitable respiratory protection.
Fire conditions may liberate toxic and noxious fumes.
Oxides of nitrogen, oxides of carbon. Hydrogen cyanide, nitric acid.

6. ACCIDENTAL RELEASE MEASURES

Remove all potential ignition sources. Prevent spread of spill. Wear suitable protective equipment. Sweep or scoop into disposal container in a manner that minimizes dust dispersion.

7. HANDLING AND STORAGE

OSHA SDS #: 25227 rev 101  3/27/2015  2,2'-BIPYRIDINE
9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White to off-white powder.
Odor: Not available
Odor Threshold: Not available
pH: Not available
Melting/Freezing Point: 70 °C
Initial Boiling Point and Boiling Range: 272 °C
Flash Point: 121 °C
Evaporation Rate: Not available
Flammability: Not available
Flammable or Explosive Limits (% by volume in air)
   Upper: Not available
   Lower: Not available
Vapor Pressure: Not available
Vapor Density: Not available
Relative Density: Not available
Solubility: Slightly soluble in water (0.1-1%)
Partition Coefficient: n-octanol/water: Not available
Auto-Ignition Temperature: Not available
Decomposition Temperature: Not available
Viscosity: Not available

10. STABILITY AND REACTIVITY

Stability: Stable
Incompatibles: Incompatible with strong oxidizers.
Conditions to Avoid: Excessive heat and exposure to light.
Incompatibilities: Hazardous polymerization will not occur

11. TOXICOLOGICAL INFORMATION

Effects of Over Exposure:
   Inhalation: Harmful if inhaled. Irritating to the upper respiratory tract and mucous membranes.
   Skin Contact: Contact may cause skin irritation.
   Eye Contact: Contact may be irritating to the eyes.
   Ingestion: Harmful or fatal if swallowed.
   Chronic Effects: None identified
   Target Organs: None identified
   Additional Effects: None identified
   Reproductive Effects: None identified
   Carcinogenicity: None identified
   Toxicity Data:
      2,2'-Bipyridine: LD50 (oral, rat) 100 mg/kg

12. ECOLOGICAL INFORMATION

Aquatic Toxicity Data: No information available
Terrestrial Toxicity Data: No information available
Persistence and degradability: No information available
13. DISPOSAL CONSIDERATIONS

Disposal Procedures: Dispose of material and containers in accordance with all local, state and federal regulations.

14. TRANSPORTATION INFORMATION

This product is a regulated material for domestic ground transportation, per CFR Title 49.

UN Number: UN2811
Proper Shipping Name: Toxic solids, organic, nos (2,2',bipyridine)
Packing Group: III
Hazard Class: 6.1
Environmental hazards: No information available
Special precautions: No information available
Bulk transport: No information available

15. REGULATORY INFORMATION

2,2'-Bipyridine is listed in the TSCA inventory.

16. OTHER INFORMATION

OSHA SDS #: 25227 rev 101 3/27/2015

Bioaccumulative potential: No information available
Mobility in soil: No information available
Other adverse effects: No information available

NE = Not established, NA = Not applicable or Not available

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***** END OF SDS *****