

# Material Safety Data Sheet

**SEIKO / HP INK**

MSDS : Material Safety Data Sheet

## 1. Identification of the product and of the company

Identification of the product:

Solvent based pigment Ink: Cyan, Magenta, Yellow , Black, Light Cyan, Light Magenta

### Company identification

Name: Digital Sign Technologies

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## 2. Composition/information of Ingredients

- Substance / Mixture:
- Chemical Name:
- Ingredients:

Mixture  
 Printer Ink  
 Hazardous Ingredients:  
 1. N-Methyl-2-Pyrrolidinone (3-15%) CAS 872-50-4:  
     Xi R 36/38 S 41 37/39  
 2. Bis (2-ethoxyethyl) ether (50-90%) CAS 112-36-7:  
     Xi R 36 S 26/36

The remaining ingredients (pigments, polymers, additives) do not present a health or environmental hazard.

## 3. Hazards Identification

- Class name of hazardous chemicals:
- Physical and chemical hazards:
- Adverse human health effects:
- Environmental effects:

combustible liquid  
 combustible, keep away from heat, sparks, flame  
 causes irritation. Avoid contact with eyes, skin and clothing  
 spill: absorb liquid with vermiculite or other absorbent  
 material

## 4. First-aid measures

- Eye contact:
- Skin contact:
- Inhalation:
- Ingestion:

in case of eye contact, immediately flush with plenty of water for at least 15 min.  
 in case of contact, flush skin with water  
 if symptoms develop, immediately move individual away from exposure into fresh air.  
 Seek medical attention. Keep person warm and quiet.  
 If breathing is difficult, administer oxygen.  
 In case of ingestion, do NOT induce vomiting, call a physician, contact poison control  
 center

<b>5. Fire fighting measures</b>	
<ul style="list-style-type: none"> <li>• Procedures: Fire fighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Move containers from fire area, if it can be done without risk. Use water to keep fire-exposed containers cool.</li> <li>• Extinguishing media: Use water spray, alcohol resistant foam, dry chemical or carbon oxide</li> </ul>	
<b>6. Accidental release measures</b>	
<ul style="list-style-type: none"> <li>• In case of accidental spill: absorb spill with vermiculite or other absorbant material. Dispose in waste container.</li> </ul>	
<b>7. Handling and storage</b>	
• Handling:	Avoid contact with skin, eyes, clothing. Do not ingest or inhale. After use, wash hands with soap and water. Should ink come in contact with clothing, remove clothing to avoid prolonged skin exposure.
• Storage:	Seal bottle when not in use. Store in a cool, dry place, away from direct sunlight. Avoid freezing. Avoid exposure to ambient temperatures in excess of 50 °C (122°F). Optimum prolonged storage temperature: 5°C (41°F) to 30°C (86°F) <b>KEEP THIS AND ALL CHEMICALS OUT OF REACH OF CHILDREN</b>
<b>8. Exposure Control / Personal Protection</b>	
<ul style="list-style-type: none"> <li>• Engineering measures:</li> <li>• Personal protective equipment:</li> </ul>	Eliminate all ignition sources (flames, electrical sparks,...) Protective glasses, gloves and apron. Fire extinguisher in area.
<b>9. Physical &amp; Chemical Properties</b>	
<ul style="list-style-type: none"> <li>• Appearance:</li> <li>• Boiling Point:</li> <li>• Density:</li> <li>• Vapor pressure:</li> <li>• Solubility in water:</li> <li>• Odor:</li> <li>• Vapor density:</li> </ul>	Blue(Cyan), Red(Magenta),Yellow(Yellow), Black(Black) No data available No data available Greater than 1 (air = 1) Insoluble Slight solvent odor Heavier than air
<b>10. Stability &amp; reactivity</b>	
<ul style="list-style-type: none"> <li>• Flash point: greater than 71C (160F)</li> <li>• Oxidability: avoid contact with strong oxidizing agents</li> <li>• Autoflammability: none</li> <li>• Self reactivity/explosive: none</li> <li>• Reactivity: none</li> </ul>	
<b>11. Toxicological Information</b>	
<ul style="list-style-type: none"> <li>• Eye irritation: Exposure can cause severe eye irritation. Symptoms can include stinging, redness, swelling and eye damage.</li> <li>• Acute oral: No data available</li> <li>• Skin irritation: No data available</li> <li>• Carcinogenicity: None identified</li> <li>• Reproductive toxicology: None identified</li> </ul>	
<b>12. Ecological Information</b>	
<ul style="list-style-type: none"> <li>• No data available</li> </ul>	

#### 13. Disposal Information

• Waste disposal method: Dispose of in accordance with all applicable governmental regulations. Prevent from entering drains, sewers, streams or other bodies of water. Use empty ink bottle to store waste. Cap waste container tightly.

#### 14. Transport Information

Shipping description: Not classified as hazardous for transport.

- Avoid getting package wet.
- Handle with care if package seal is broken.
- Comply with relevant shipping regulations.

#### 15. Regularity Information

- Xi
- R 36/38
- S 26, 36/37/39, 41

#### 16. Other Information

To the best of our knowledge, the information contained herein is accurate. However, Digital Sign Technologies Inc. does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.