MATERIAL SAFETY DATA SHEET

1. Identity
   ERC-09 (BLACK)
   Manufacturer: SEIKO EPSON CORPORATION
   Address: 2070 Kotobuki Koaka, Matsumoto-Shi, Nagano-Ken 399-8702, JAPAN
   Telephone: 81-263-86-9790 (Facsimile Number: 81-263-86-9928)
   Section: SD Design & Engineering Support Group

2. Composition/Information on Ingredients
   This ink is a mixture of the following:
   - Coloring Material
   - Oil
   - Additive

<table>
<thead>
<tr>
<th>Hazardous Components</th>
<th>CAS No.</th>
<th>US. ACGIH TLV</th>
<th>US. OSHA PEL</th>
<th>Other Limits Recommended</th>
<th>Recommended %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon Black</td>
<td>1333-86-4</td>
<td>3.5mg/m³</td>
<td>3.5mg/m³</td>
<td>Not applicable</td>
<td>2</td>
</tr>
</tbody>
</table>

3. Hazard Identification
   Medical Conditions: Generally Aggravated by Exposure: No data available
   Signs and Symptoms of Exposure: No data available

4. First-Aid Measures
   - SKIN: Wash away ink on skin.
   - EYE: Wash with water and consult a doctor promptly.
   - INHALATION: Not applicable
   - OTHERS: No data available

5. Fire-Fighting Measures
   Water mist, Foam, Dry powder, CO2 gas, others

6. Accidental Release Measures
   If inadvertently released rewind ribbon.

7. Handling and Storage
   Should be stored at dark and cold place.
   Refrain from taking it into the body through mouth.

8. Exposure Controls/Personal Protection
   - Respiratory Protection (Specify Type): None
   - Ventilation: Not applicable
   - Protective Gloves: Desirable in some cases
   - Eye Protection: Not applicable
   - Other Protective Clothing or Equipment: Not applicable
   - Work/Hygienic Practices: None
9. Physical and Chemical Properties
   Appearance and Odor: Nylon 6-6 fabric and NBR rubber form impregnated with liquid black ink.
   Boiling Point: No data
   Specific Gravity: No data
   Vapor Pressure: No data
   Melting Point: No data
   Vapor Density: No data
   Evaporation Rate: No data
   Solubility in water: Negligible
   Flash Point: >150 degrees C
   Unusual Fire and Explosion Hazards: None

10. Stability and Reactivity
    Stability: Stable (Conditions to Avoid: Not applicable)
    Incompatibility (Materials to Avoid): None
    Hazardous Decomposition or By-products: None
    Hazardous Polymerization: Will not occur (Conditions to Avoid: Not applicable)

11. Toxicological Information
    Health Hazards (Acute and Chronic): No data available
    Carcinogenicity
       Ames Test: Negative
       Carbon Black 1333-86-4: IARC animal carcinogen.

12. Ecological Information
    No data available

13. Disposal Considerations
    Waste disposal should be in accordance with federal, state and local regulations.

14. Transport Information
    No special

15. Regulatory Information
    No information on regulations is obtained.

16. Other Information
    No other information is obtained.