

# MATERIAL SAFETY DATA SHEET

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## 1. Identity **ERC-15 (BLACK)**

Manufacturer : SEIKO EPSON CORPORATION Matsumoto Minami Plant  
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

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## 2. Composition/Information on Ingredients

This ink is a mixture of the following:

Coloring Material  
Oil  
Additive

Impurity : Michler's ketone 90-94-8 < 1 %

Hazardous Components	CAS No.	US. ACGIH TLV	US. OSHA PEL	Other Limits Recommended	%
Carbon Black	1333-86-4	3.5mg/m <sup>3</sup>	3.5mg/m <sup>3</sup>	Not applicable	5
Di-2-ethylhexyl phthalate	117-81-7	5.0mg/m <sup>3</sup>	5.0mg/m <sup>3</sup>		14.7

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## 3. Hazard Identification

Medical Conditions: Generally Aggravated by Exposure : No data available  
Signs and Symptoms of Exposure : No data available

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## 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

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## 5. Fire - Fighting Measures

Water mist, Foam, Dry powder, CO2 gas, others

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## 6. Accidental Release Measures

If inadvertently released rewind ribbon.

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## 7. Handling and Storage

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

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## 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

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## 9. Physical and Chemical Properties

Appearance and Odor : Nylon 6-6 fabric and NBR rubber 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

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## 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)

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## 11. Toxicological Information

Health Hazards(Acute and Chronic) : No data available  
Carcinogenicity  
Ames Test : Positive  
Di-2-ethylhexyl phthalate : NTP anticipated human carcinogen. IARC animal carcinogen.  
Michler's ketone 90-94-8 : NTP anticipated human carcinogen.  
Carbon Black 1333-86-4 : IARC animal carcinogen.

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## 12. Ecological Information

No data available

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## 13. Disposal Considerations

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

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## 14. Transport Information

No special

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## 15. Regulatory Information

No information on regulations is obtained.

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## 16. Other Information

No other information is obtained.

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