

MATERIAL SAFETY DATA SHEET

1. Identity **ERC-23 (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

2. Composition/Information on Ingredients

This ink is a mixture of the following:

Coloring Material
Oil
Additive

Impurity : Michler's ketone 90-94-8 < 0.2 %

Hazardous Components	CAS No.	US. ACGIH TLV	US. OSHA PEL	Other Limits Recommended	%
Carbon Black	1333-86-4	3.5mg/m ³	3.5mg/m ³	Not applicable	3

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

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9. Physical and Chemical Properties

Appearance and Odor : Nylon 6-6 fabric 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) :
Acute Oral : LD50 >10ml/kg (MICE)
Acute Subcutaneous : LD50 >10ml/kg (MICE)
Primary Skin Irritation : Slight irritant
Skin Reaction : Nonirritant

Carcinogenicity
Ames Test : Negative
Michler's ketone 90-94-8 : NTP anticipated human carcinogen.
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.
