

# MATERIAL SAFETY DATA SHEET

## 1. Identity IR-40T (R/B)

Manufacturer : SEIKO EPSON CORPORATION Matsumoto Minami Plant  
 Address : 2070 Kotobuki Koaka, Matsumoto-Shi, Nagano-Ken 399-8702, JAPAN  
 Telephone : 81-263-86-9799 (Facsimile Number : 81-263-86-9926)  
 Section : SD Quality & Environmental System Administration Group

## 2. Information of the Product

This ink is a mixture of the following:

(Substance)	(CAS No.)	(US. ACGIH TLV)	(US. OSHA PEL)	(Other Limits Recommended)	(%)
< Hazardous substance >					
Carbon Black	1333-86-4	3.5mg/ m <sup>3</sup>	3.5mg/m <sup>3</sup>	Not applicable	0.5-2
<Other>					
Ester Oils	(Trade secret)				30-40
NBR	(Trade secret)				28-30
Fatty Acid	(Trade secret)				18-20
Dyestuff	(Trade secret)				7-9
Organic Pigments	(Trade secret)				5-7

## 3. Hazard Identification

Physical and Chemical Hazards : Not applicable in normal use.  
 Adverse Human Health Effects : Not applicable in normal use.  
 Environmental Effects : Not applicable in normal use.

## 4. Emergency First Aid

EYE : Try to remove with eye drops or flush with water. If unsuccessful, get medical attention.  
 SKIN : Wash thoroughly with soap and water.  
 INHALATION : Not applicable in normal use.  
 INGESTION : Induce vomiting by sticking finger down throat or by giving strong Salty water to drink. If unsuccessful, get medical attention.

## 5. Fire - Fighting Measures

Extinguishing Media : Water, CO<sub>2</sub>, Dry Chemical and others  
 Specific Method : No special fire protecting method is required.

## 6. Spillage, Leakage and Disposal

Methods for Cleaning Up : If spilled, wipe up with paper or cloth.

## 7. Handling and Storing:

Handling : Avoid prolonged or repeated contact with skin.  
 Cleanse skin thoroughly after contact.  
 Storing : Keep product out of sewers and watercourses.  
 Avoid storing under -5 degrees C so as not to freeze.  
 Avoid storing over 40 degrees C.  
 Avoid direct sunshine.

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Keep out of reach of children.

## 8. Employee Protection Recommendations

Respiratory Protection(Specify Type)	:	None required under normal conditions of use.
Ventilation	:	Not applicable
Protective Gloves	:	None required under normal conditions of use.
Eye Protection	:	None required under normal conditions of use.
Other Protective Clothing or Equipment	:	None required under normal conditions of use.
Work/Hygienic Practices	:	None

## 9. Physical and Chemical Properties

Form	:	Inked Roll
Color	:	Red / Black
Odor	:	None
Boiling Point	:	Over than 200 degrees C
Density (Bulk Density)	:	Approx. 1.0 Measuring Temp.(degrees C) :-
Vapor Pressure	:	Not applicable measuring Temp (degrees C) :-
Melting Point	:	Not applicable
Solubility in water	:	Insoluble

## 10. Reactivity Data

Flash Point	:	Not available
Auto ignition Temperature	:	Not available
Explosion Limit	:	Upper :- Lower :-
Flammability	:	Not available
Spontaneous Combustibility	:	Not available
Oxidizibility	:	Not applicable in normal use.
Self-Reactivity	:	Not available
Explosive Dust	:	Not available
Stability and Reactivity	:	Not applicable in normal storage and use.

## 11. Toxicity Data

Corrosive Properties	:	Not available
Irritant Properties	:	Not available
Allergenic and Sensitizing Effects	:	Not available
Acute Toxicity	:	Not available
Sub-Chronic Toxicity	:	Not available
Chronic Toxicity	:	Not available
Carcinogenic Effects	:	Carbon Black : IARC (Group 2B)
Mutagenic Effects	:	Not available
Effects On The Reproductive System	:	Not available
Teratogenic Effects	:	Not available
Unusual Fire and Explosion Hazards	:	Acute Skin Irritation : Will discolor skin. Acute Eye Irritation : Slightly Irritating.

## 12. Ecological Information

No data available

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13. Waste Disposal Method

Dispose of waste material in accordance with local, state and federal pollution regulations.

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14. Transport Information

Specific Precautionary Transport Measures : Avoid storing under  $-5$  degrees C so as not to freeze.

Avoid storing over 40 degrees C.

Avoid direct sunshine.

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15. Regulations Information

No information on regulations is obtained.

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16. Other Information

No other information is obtained.

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