

MATERIAL SAFETY DATA SHEET

No.ERC-31B-G Rev.2.0 P.1/3

1. Identity **ERC-31(B)**

Manufacturer : SEIKO EPSON CORPRATION
Address : 80 Harashinden, Hirooka,Shiojiri-Shi, Nagano-Ken 399-0785, JAPAN
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Section : IP Environment Promotion Dept.
Date Prepared : Feb.24.2004
Date Revised : Jan.24.2005

2. Composition/Information on Ingredients

This ink is a mixture of the following:

Ingredients	CAS.No.	<Wt%>
[INK#52]		
Carbon Black	1333-86-4	0.1 — 0.3
Organic Pigments		1.0 — 3.0
Dyestuff		3.0 — 5.0
Fatty Acid		2.0 — 4.0
Ester Oils		8.0 — 12.0
[Base Fabric]		
Nylon 66 Fabric		80.0

All components are listed in TSCA Inventory.

3. Hazard Identification

1. Emergency Overview : No enough data for hazardous classification.
 2. Potential Health Effects : No symptoms expected under intended use.
 3. Potential Environment Effects :No data available.
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4. First Aid Measures

- Eyes : Rinse with plenty of water and seek medical advice if any irritation remains.
Skin : Wash with soap and water.
Inhalation : Not applicable.
Ingestion :Wash mouth with water and get medical advice.
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5. Fire - Fighting Measures

- 1.Flammability : Combustibles.
 - 2.Extinguishing Media : Water, Foam, and Dry chemical, CO2 gas.
 - 3.Fire Fighting Instructions :Especially nothing.
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6. Accidental Release Measures

- Personal protections : Although not needed especially, in order to prevent adhesion of ink, wearing of a nylon glove is good.
Methods for cleaning up : Wipe off with paper or cloth.
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MATERIAL SAFETY DATA SHEET

No.ERC-31B-G

Rev.2.0

P.2/3

7. Handling and Storage

Handling(technical measures, precautions, safe handling material)

Prohibition of dropping and throwing

Storage(technical measures storage conditions, packaging material)

Places, such as sunlight, a leak, and an excessive temperature change, are avoided.

8. Exposure Controls and Personal Protection

1.Engineering Controls :No specific controls are needed

2.Exposure Guidelines :No data available

3.Personal protection :Although not needed especially, in order to prevent adhesion of ink, wearing of a nylon glove is good.

9. Physical and Chemical Properties

Appearance : Black

Odor :None

PH :No data available

Boiling point :>200

Melting Point :No data

Flash Point : No data

Inflammability : No data

Auto flammability : No data

Explosive properties :None

Oxidizing properties :There is nothing in general storage and handling

Vapor pressure :No data

Relative density :About 1.0

Solubility in water :Insolubility

Solubility in fat :No data

Partition coefficient :No data

10. Stability and Reactivity

Stability : : Stable

Conditions to avoid : Not applicable in normal use.

Reactivity : :There is nothing in general storage and handling.

Hazardous decomposition products :None

11. Toxicological Information

Based on toxicology data of ink.

Acute toxicity:

Oral :No data

Skin :No data

Inhalation :No data

Irritation :

Skin :No data

Eye :Slightly irritating.

Skin sensitization :No data

Mutagenicity :Negative in Ames Test.

Carcinogenicity :The carbon black contained in this product corresponds to IARC(2B).

MATERIAL SAFETY DATA SHEET

No.ERC-31B-G

Rev.2.0

P.3/3

12. Ecological Information

- Mobility : No data are available on the adverse effects of this material on the environment.
- Degradability : No data are available on the adverse effects of this material on the environment.
- Accumulation : No data are available on the adverse effects of this material on the environment.
- Ecology toxicity : No data are available on the adverse effects of this material on the environment.
- Toxicology influence of other : No data are available on the adverse effects of this material on the environment.

13. Disposal Considerations

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

14. Transport Information

- The UN Classification Number :Not applicable.
- Hazard Class :Not regulated as a hazardous material.
- UN number :None

15. Regulations Information

EU information

Information on the label (1999/45/EC and 67/548/EEC):

- Symbol & Indication: Not required
- R-phrase: Not required
- S-phrase: Not required

16. Other Information:

This "Material Safety Data Sheet" contains health, safety, and environmental information. It does not replace any precautionary language or use and disposal information, which accompanies the product. The information contained herein is believed to be accurate at the time of preparation, but should only be used as a guide. It is subject to revision from time to time.
