MATERIAL SAFETY DATA SHEET

Date of printing: 2006/4/17 Revised:

1. Product and Company Identification

Details on the product

Commercial product name: THERMAL TRANSFER RIBBON **FX-SP2**
PFPE1498ZA, PFPE1499ZA, PFPE1500ZA, PFPE1501ZA,
KX-FA92, KX-FA54A, KX-FA54X, KX-FA54E, KX-FA93,
KX-FA57A, KX-FA57E, KX-FA94, KX-FA67A, KX-FA67E

Manufacturer / Supplier: GENERAL TECHNOLOGY CO., LTD.
18 SATSUKIGAOKA, MINAKUCHI-CHO
KOKA, SHIGA, 528-0062 JAPAN

2. Composition / Information on Ingredients

Substance or Preparation: Preparation

Chemical characteristics

	CAS No.	Contents (Wt%)
[Ink]		
Carbon Black	1333-86-4	5.0 － 10.0
Paraffin wax	8002-74-2	10.0 － 15.0
Carnauba wax	8015-86-9	10.0 － 15.0
Olefin	64743-02-8	5.0 － 10.0
Ethylene Homo polymer	9002-88-4	1.0 － 3.0
Ethylene-vinyl acetate copolymer	24937-78-8	1.0 － 3.0
[Film]		
Polyethylene Terephthalate	25038-59-9	50.0 － 55.0

3. Hazards Identification

Human Health Effects: No know available information.

Environmental Effects: No know available information.

Physical and Chemical Hazards: No know available information.

4. First- Aid Measures

Skin Contact: Wash thoroughly with soap and water.

Eye Contact: Rinse with plenty of water and seek medical advice if any irritation remains.

Ingestion: Wash mouth with water and get medical advice.

5.Fire-Fighting Measures

Suitable Extinguishing Media: Water, CO_2, Dry-chemical and others.

Specific Method: No special fire protecting method is required.

6.Accidental Release Measures

Personal Precautions: Not applicable under intended use.

Environment Precautions: Especially nothing

7.Handling and Storage

Handling: Prohibited to dropping and throwing

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

8.Exposure Controls / Personal Protection

Technical Protection Measures: None needed

Personal Protection Equipment

Respiratory Protection: None required under normal conditions of use.

Hand Protection: None required under normal conditions of use.

Eye Protection: None required under normal conditions of use.

9. Physical and Chemical Properties

Form: Ribbon

Color: Black Odor: None

Change in physical

Boiling Point / Boiling Range: Not data

Flash Point: Not data

Ignition Point: Above 480℃ (Film)

Melting Point / Melting Range: Above 250℃（Film）

Danger of Explosion: None

Explosion Limits lower limit: None upper limits: None

Vapor Pressure: Unknown

Density: approx. 1. 4（Film）

Solubility in Water: Insoluble

pH -value: Not data available

Viscosity: Solid (At room temperature)

10. Stability and Reactivity

Hazardous Reactions: Not applicable in normal use.

Hazardous Decomposition Products: Will not occur

11.Toxicological Information

Acute Toxicity

Acute Oral Toxicity: No data

Acute Dermal Toxicity: No data

Acute Inhalation Toxicity: No data

Sensitization

Acute Skin Irritation: No data

Acute Eye Irritation: No data

Acute Allergenic Effects: No data

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

Contain of heavy metal: Adaptation to EN-71

12.Ecological Information

General Information:

Persistence / Degradability: Not known

Bioaccumulation: Not known in bioaccumulation.

Ecotoxicity

Acute Toxicity for Fish: Not known

Algae Inhibition Test: Not known

13. Disposal Considerations

Disposal Key Number: Not applicable

Disposal Definition: Not applicable

Waste disposal: 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. Regulatory Information

EU: The materials of this product are not applicable to 67/548/EEC Annex Ⅰ

16.Other Information

None