

# MATERIAL SAFETY DATA SHEET

Date of printing : 2007/11/23

## 1. Product and Company Identification

Details on the product

Commercial product name : THERMAL TRANSFER RIBBON FX-SP2  
KX-FA91、KX-FA52A、KX-FA52E、KX-FA52X  
PFPE1511ZA、PFPE1512ZA

Manufacturer : GENERAL TECHNOLOGY CO.,LTD.  
Address : 18 Satsukigaoka, Minakuchi-cho Koka, Shiga, 528-0062 Japan  
Section : Guarantee of quality department  
Telephone : 0748(63)0555 Facsimile Number : 0748(63)1922  
e-mail : QA1/GNOTES@GNOTES  
Date Prepared : Nov.23.2007  
Date Revised :  
Number : 07A131

## 2. Hazards Identification

Human Health Effects : No know available information.  
Environmental Effects : No know available information.  
Physical and Chemical Hazards : No know available information.  
The classification of The Chemical Product:Not applicable

## 3. Composition / Information on Ingredients

Substance or Preparation : Preparation

Chemical characteristics	CAS No.	Contents(Wt%)
[ Ink ]		
Paraffin wax	8002-74-2	24.0 - 29.0
Carbon Black	1333-86-4	5.0 - 9.0
Carnauba wax	8015-86-9	5.5 - 8.0
Resin	27923-68-8	5.0 - 7.0
Ethylene-vinyl acetate copolymer	24937-78-8	2.0 - 3.5
Pigment A	557-05-1	0.5 - 0.9
Pigment B	Confidential	0.0 - 0.6
[ Film ]		
Polyethylene Terephthalate	25038-59-9	47.0 - 53.0

## 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.

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### 5. Fire-Fighting Measures

Suitable Extinguishing Media : Water, CO<sub>2</sub>, Dry-chemical and others.

Fire-Fighting Equipment

:Respiratory and eye Protection required for fire fighting personal.

### 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 : It is not needed in particular, but wearing of protection glove  
(a product made in vinyl or a product made in caoutchouc)  
is preferable to prevent adhesion of ink)

Eye Protection : None required under normal conditions of use.

Skin and Body Protection:None required under normal conditions of use.

### 9. Physical and Chemical Properties

Physical State

Form : Ribbon

Color : Black

Odor : None

Information

Boiling Point / Boiling Range : No data

Flash Point : No data

Ignition Point : Above 480°C (Film)

Melting Point / Melting Range : Above 250°C (Film)

Danger of Explosion : None

Explosion Limits      Lower limits : 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)

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## 10. Stability and Reactivity

Condition : Not Applicable in normal use.

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

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

## 12. Ecological Information

General Information :

Persistence / Degradability : Not known

Bioaccumulation : Not known in bioaccumulation.

Ecotoxicity

Acute Toxicity for Fish : Not known

Acute Toxicity for Daphnia : Not known

Algae Inhibition Test : Not known

## 13. Disposal Considerations

Waste disposal : Dispose of waste material in accordance with local state and federal pollution regulations.

## 14. Transport Information

International Regulations

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