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Material Safety Data Sheet

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SECTION 1 Identification of the Substance / Preparation and of the Company / Undertaking

Product Name : Thermal Transfer Ribbon for Panasonic Plain Paper Fax
 Product Number : KX-FA92, KX-FA93, KX-FA132, KX-FA133, KX-FA134, KX-FA135, KX-FA136
 KX-FA54A, KX-FA57A, KX-FA135A, KX-FA136A, KX-FA137A
 KX-FA54E, KX-FA57E, KX-FA135A-E, KX-FA136A-E, KX-FA137A-E

SECTION 2 Hazardous Identification (Most Important Hazard)

Adverse Human Health Effects
 No know applicable information.

Environmental Effects
 No know applicable information.

Physical and Chemical Hazards
 No know applicable information.

The classification of The Chemical Product
 Not applicable

SECTION 3 Composition / Information on Ingredients

Substance or Preparation : Preparation

Chemical Nature

Ingredients	CAS No.	Contents (Wt%)
[Ink]		
Paraffin wax	8002-74-2	29.0 – 33.0
Carbon black	1333-86-4	6.0 – 9.0
Carnauba wax	8015-86-9	2.0 – 3.0
Resin	27293-68-8	4.5 – 6.5
Ethylene-vinyl acetate copolymer	24937-78-8	1.0 – 3.0
Pigment A	557-05-1	0.5 – 0.9
Pigment B	Confidential	0.0 – 0.6
[Film]		
Polyethylene Terephthalate	25038-59-9	48.0 – 53.0

SECTION 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.

SECTION 5 Fire Fighting Measures

Extinguishing Media
Water, CO₂, Dry chemical. and others

Fire Fighting Equipment
Respiratory and eye protection required for fire fighting personnel.

SECTION 6 Accidental Release Measures

Not applicable under intended use.

SECTION 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.

SECTION 8 Exposure Controls / Personal Protection

Engineering Measures
Local Exhaust : None required under normal conditions of use .

Personal Protective Equipment
Respiratory Protections
None required under normal conditions of use .

Hand Protection
It is not needed in particular, but arming 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 .

SECTION 9 Physical and Chemical Properties

Physical States
Form : Ribbon
Color : Black
Odor : None

Information
pH : No data Measuring Temperature (°C) : -
Boiling Point (°C) : No data
Flash Point (°C) : No data
Fire Point (°C) : Above 480(film)
Melting Point (°C) : Above 250(film)
Explosion Properties (°C) : This product is considered a no explosive material under normal use condition.
Vapor Pressure (pa) : Not applicable Measuring Temperature (°C) : -
Vapor Density (AIR=1) : Not applicable
Density (g/cm³) : approx. 1.4 (Film) Measuring Temperature (°C) : -

Solubility
Water Solubility (g/L) : Insoluble
Water Solubility Measuring Temperature (°C) : -
Other Solvent name : -
Other Solvent Solubility (g/L) : -
Other Solvent Solubility Measuring Temperature (°C) : -
Octanol / Water Partition Coefficient : Not known

SECTION 10 Stability and Reactivity

Conditions to Avoid

Not applicable in normal use.

Materials to Avoid

Not applicable in normal use.

Hazardous Decomposition Products

Will not occur

SECTION 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).

SECTION 12 Ecological Information

Persistence / Degradability : Not known

Bioaccumulation : Not known in bioaccumulation.

Ecotoxicity

Acute Toxicity for Fish : Not known

Acute Toxicity for Daphni : Not known

Algae Inhibition Test : Not known

SECTION 13 Disposal Considerations

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

SECTION 14 Transport Information

International Regulations

The UN Classification Number : Not applicable

Hazard Class : Not regulated as a hazardous material.

UN Number : None

SECTION 15 Regulation Information

Regulations : None

SECTION 16 Other Information

None