

Material Safety Data Sheet

Date: MAY.8'2000
Revised on: ---

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1. Identification of the product and of the company / undertaking

Product Identity: KX-FA136/137A/132/133/134
Company name: KYUSHU MATSUSHITA ELECTRIC Co.,Ltd
Address: 1-62, 4-choume Minoshima Hakata-ku Fukuoka 812-8531 Japan
Contact Person: S.FUKUDA
Telephone: +81-92-477-1103

2. Composition / information on ingredients

Chemical Characterization	Weight % (about)	CAS-Reg.NO.
Polyethylene terephthalate	48~ 53%	25038-59-9
Carbon black	7~ 10%	1333-86-4
Ester wax	4~ 7%	8015-86-9
Paraffin wax	11~ 14%	8002-74-2
Microcrystalline wax	13~ 16%	63231-60-7
Others	4~ 13%	---

3. Hazardous identification

No danger at normal use.

4. First aid measures

Inhalation: Not applicable
Eye contact: In case of contact, immediately flush eyes with plenty of water. If necessary, then care for medical attention.
Ingestion: Immediately make vomit and rinse mouth with water. If necessary, then care for medical attention.
Skin contact: In case of contact, usually special care is not necessary. If it dirty skin, clean with water and soap.

5. Fire fighting measures

Extinguish media; CO₂, water, dry chemicals and foam etc.
For large quantities (i.e. truckload or pallet) involved in fire, firefighters should wear self-contained breathing apparatus and protective clothing.

6. Accidental release measures

If rumple the product and wax layer peel off, sweep up or clean with vacuum cleaner and wash with water.
First aid see item 4.

7. Handling and storage

No special precautions for safety reasons.
Store in a cool, dry place, avoid direct sunlight.

8. Exposure controls / personal protection

Recommended Exposure Limits:	Not applicable
Work- / Hygienic Practices:	none
Personal Protection:	none
Technical Protection:	none

9. Physical and chemical properties

Appearance and odor:	Ink is black solid with slight acetic acid odor.
Melting Point:	About 71 for wax ink
Flash Point:	About 250 for wax ink
Destiny:	About 1.2
Vapor Pressure:	Not applicable
Vapor Density:	Not applicable
Evaporation Rate:	Negligible
Flammable Limits:	Not applicable
Explosion Limits:	Not applicable
Solubility in Water:	Negligible

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10. Stability and reactivity

Stability:	Stable
Conditions to Avoid:	none
Incompatibility (Materials to Avoid):	none
Hazardous Decomposition or Byproducts:	CO, CO ₂ , NOX and H ₂ O
Hazardous Polymerization:	Will not occur

11. Toxicological information

There are no health hazards under normal use conditions.

Inhalation:	Not applicable
Swallow:	Practically nontoxic
Skin irritation:	No skin irritation
Eye Irritation:	No irritation
Mutagenicity:	Ames Test : Negative
Carcinogenicity:	
NTP	No
IARC Monographs	carbon black:2B
OSHA Regulated	No

In 1996 the International Agency for Research on Cancer (IARC) reevaluated carbon black as a group 2B carcinogen (possible human carcinogen), based upon the development of lung tumors in rats receiving chronic inhalation exposures to free carbon black. The effects were observed only in animals exposed to high concentrations of carbon black at levels that induce particle overload of the lung. Studies performed in animal models other than rats have not demonstrated an association between carbon black and lung tumors. Moreover, a two-year cancer bioassay using a typical toner preparation containing carbon black demonstrated no association between toner exposure and tumor development in rats.

Epidemiology studies of workers in the carbon black producing industries of North America and Western Europe do not demonstrate an association between carbon black and cancer, even in high exposure occupational settings. In addition, in its reevaluation of carbon black, IARC concluded that "there is inadequate evidence in humans for the carcinogenicity of carbon black." Chronic over exposure to many dusts, including carbon black dust, may result in respiratory tract irritation and slight changes in lung function.

12. Ecological information

No environmental effect at normal use.

13. Disposal considerations

Dispose by the same method of ordinary plastic products in accordance with all applicable regulations. Any disposal practice must be in compliance with local, state and federal laws and regulations. If necessary, contact government office and ensure conformity with disposal regulations.

14. Transport information

No specific precautionary transport measure for safety reasons.
As to storage conditions, see item 7.

15. Regulations

None

16. Other information

The information herein is given in good faith, but no warranty, if used any process.

Final determination of suitability of any material is the sole responsibility of the user.

Although certain information are described herein, we cannot guarantee, that these are the only hazard, which exist.

Information on this data sheet represents our current data and best opinion as to the proper use in handling of this product under normal conditions.