

Material Safety Data Sheet

MSDS No.: RB001E-001

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Product name : Ink film Issue Date : 2002.01.11

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name : Ink film

Used for : M3500/M3700 Reorder No. : PF10A

Company name : Murata Machinery, Ltd.

Address : 136, Takeda-Mukaishiro-cho, Fushimi-ku, Kyoto, Japan 612-8686

Contact point : Murata Machinery, Ltd. (Customer Satisfaction Center Communication Equipment Division)

Telephone +81-75-662-7735 / Facsimile +81-75-672-5046

2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Nature : Preparation

Chemical Name	Ingredients(% by wt.)	CAS Registry No.	Note
Polyethylene terephthalate film	48~52	25038-59-9	
Carbon Black	7~10	1333-86-4	ACGIH-TLV(USA) : 3.5 mg/m ³ IARC Monographs : Group 2B
Microcrystalline Wax	13~16	63231-60-7	
Paraffin Wax	11~14	8002-74-2	ACGIH-TLV: 2 mg/m ³
Ester Wax	4~7	8015-86-9	
Others	4~13	+++	

^{+++ :} Supplier's confidential information

3. HAZARDS IDENTIFICATION

Physical and Chemical Hazards : It is combustibles, and if there is a source of ignition, it will burn.

Adverse Humen Health Effects : Polyethylene terephthalate film

(Possible generation of toxic gas such as carbon monoxide in case of fire.)

Specific Hazards : There are no significant hazards associated with this product.

4. FIRST-AID MEASURES

Inhalation : Not Applicable.

Skin contact : Wash with soap and water.

Eye contact : Flush with a large amount of water for at least 15 minuites. Seek medical advice.

Ingestion : Rinse mouth with water. Give several glasses of water to drink. Seek medical advise.

5. FIRE-FIGHTNG MEASURES

Specal Firefighting Procedures : Use extinguishing media.

When in a machine, treat as an electrical fire.

Extinguishing media : Foam, Dry chemical, carbon dioxide gas



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6. ACCIDENTIAL RELEASE MEASURES

None required when used as intended use.

7. HANDLING AND STORAGE

Handling : A handling place is considered as the fire strictly prohibited area.

Storage : Keep in cool, dry and well-ventilated area. Keep out of reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameter(total) : Not applicable

Precautionary Measured : None required when used as intended use.

Personal Protective Equipment : None required when used as intended use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Black solid Odor : Slight wax smell

Volatile(%) : Not applicable Softening Point(°C) : 71 °C

Specific Gravity : 1.2 Initial Boiling Point(°C) : Not applicable

Flash Point(°C) : Not applicable Auto-Ignition Temperature : Not applicable

Solubility in water : Negligible Other data : None

10. STABILITY AND REACTIVITY

Explosion Limit : Not applicable

Flammability : Not flammable under conditions of use.

Spontaneous Combustibility / Reactivity with water : None

Self-reactivity / Explosive : None

Dust Explosive : Not applicable

Stability and Reactivity : Stable
Other data : None



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11. TOXICOLOGICAL INFORMATION

Irritation Skin (rabbit) : Not available Eye(rabbit) : Not available

Sensitization Skin(guinea-pig) : Not available

Acute Toxicity Ingestion LD50(rat) : >2.0 g/kg¹⁾ (practically non-toxic)

Skin LD50(rabbit) : Not available Inhalation LC50(rat) : Not available

Chronic Toxicity : Not available

Carcinogenicity : Carbon Black is classified as "Group 2B(possibly carcinogenic to humans)" by IARC. All other

ingredients are not classified as "Carcinogens" ref.1

Mutagenicity Ames Test : Negative¹⁾

1) This information is based on data of similar materials.

12. ECOLOGICAL INFORMATION

No data are available on the adverse effects of this material on the environment.

13. DISPOSAL CONSIDERATION

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

14. TRANSPORT INFORMATION

Transport in accordance with federal, state and local regulations.

UN Hazard Class : Not confiremed UN Number : Not confiremed

15. REGULATORY INFORMATION

Ensure this product in compliance with federal requirements and ensure deformity to local regulations.

16. OTHER INFORMATION

The above mentioned data correspond to our present state of knowledge and experience, but no warranty is made. Users should consider these data only as a supplement to other information and must make independent determination of the suitability and completeness of information from all sources to ensure proper use and disposal of the materials and safety and health of employees and customers.

Reference

1:IARC Monographs on the Evaluation Carcinogenic Risks to Humans(International Agency for Research on Cancer)
National Toxicology Program(NTP) Report on Carcinogens

Journal of Occupational Health(Japan Society for Occupational Health)