



Material Safety Data Sheet

Ink Ribbon

For : PM4410

OKI DATA CORPORATION

Safety Data Sheet

Creation date: July 11, 2007
Revision date:

1. Product and company information

Product name: **PM4410**
40708201PP

Company name: Oki Data Corporation
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2. Hazard(s) identification

GHS classification

PHYSICAL HAZARDS:	Explosives	No classification	
	Flammable gases	Not applicable	
	Flammable aerosols	Not applicable	
	Oxidizing gases	Not applicable	
	Gases under pressure	Not applicable	
	Flammable liquid	No classification	
	Flammable solid	No classification	
	Self-reactive substances and mixtures	No classification	
	Self-igniting liquids	Not applicable	
	Self-igniting solids	Outside category	
	Self-heating substances and mixtures	No classification	
	Substances and mixtures which emit flammable gases when they come in contact with water	Outside category	
	Oxidizing liquids	No classification	
	Oxidizing solids	No classification	
	Organic peroxides	No classification	
	Substances corrosive to metals	No classification	
	HEALTH HAZARDS:	Acute toxicity (oral)	No classification
		Acute toxicity (dermal)	No classification
		Acute toxicity (respiratory: gases)	Not applicable
Acute toxicity (respiratory: vapors)		No classification	
Acute toxicity (dust)		No classification	
Acute toxicity (mist)		No classification	
Skin corrosion/irritation		No classification	
Serious eye damage/irritation		No classification	
Respiratory sensitization		No classification	
Skin sensitization		No classification	
Germ cell mutagenicity	Category 2		
Carcinogenicity	Category 2		
Reproductive toxicity	No classification		
Specific target organ systemic toxicity (Single exposure)	No classification		
Specific target organ systemic toxicity (Repeated exposure)	Category 2 (lungs)		
Aspiration hazard	No classification		

ENVIRONMENTAL HAZARDS: Acute toxicity to aquatic environment No classification
 Chronic toxicity to aquatic environment No classification

LABEL ELEMENT

Pictogram or symbol



Signal word: Warning
 Danger/toxicity information: Suspected of causing genetic defects.
 Suspected of causing carcinogenesis.
 Causes damage to internal organs (lungs) through prolonged or repeated exposure.
 Notes: Should be stored in cool, dark places.
 Wear protective gloves when required.
 Avoid ingestion.

3. Composition/ingredients information

Distinction between single products and mixtures: Mixtures
 Generic name: Ink ribbon
 Chemical name:

Ingredients	Content (%)	Chemical Substances Control Law No.	CAS No.
Carbon black	1	Not applicable	1333-86-4
Other coloring materials	Confidential	Confidential	Confidential
Oils	Confidential	Confidential	Confidential
Additives	Confidential	Confidential	Confidential
Nylon 6-6 fabric	Confidential	Confidential	Confidential
PSM fiber	Confidential	Confidential	Confidential

4. First-aid measures

Contact with skin: Wash with soap and lots of water.
 Contact with eyes: Flush eyes with lots of water and seek advice of a physician.
 Inhalation: Not applicable
 Drink: Seek advice of a physician.

5. Fire-fighting measures

Suitable extinguishing media: Water, foam, dry powder, CO2 gas, others
 Prohibited extinguishing media: None
 Special hazard: None
 Special fire-fighting procedure: None
 Special protective equipment: Use suitable respiratory equipment and wear protective clothing as required.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: None
 Environmental precautions: Mistakenly unwound ribbons that cannot be rewound and used ribbons must be recovered and properly disposed of.

Recovery/neutralization:	Mistakenly unwound ribbons must be rewound.
Method/equipment for cordoning and cleaning:	Not applicable

Prevention of secondary disasters: Not applicable

7. Handling and storage

Handling

Technical measures:	Wear protective gloves when required.
Local and general ventilation:	Not applicable
Safety/handling precautions:	Must not be ingested. Wash hands after handling.
Avoid contact:	None

Storage

Technical measures:	Not applicable
Incompatibility with other materials:	No data
Storage conditions:	Should be stored in cool, dark places.
Packaged Materials/ materials stored in containers:	Not applicable

8. Exposure prevention/protective measures

Controlled concentration:	Not established
Allowable concentration:	Not established as a product ACGIH Carbon black TLV-TWA 3.5 mg/m ³
Facility measures:	Not applicable
Personal protection:	
Respiratory protection:	Not applicable
Hand protection:	Wear protective gloves when required.
Eye protection:	Not applicable
Skin and bodily protection:	Not applicable
Personal hygiene:	Wash hands after handling.

9. Physical and chemical properties

Appearance, physical state:	Nylon 6-6 fabric impregnated with liquid black ink
Odor:	Odorless
pH:	No data
Freezing/melting point:	No data
Boiling point, initial boiling point and boiling point range:	No data
Flash point:	Min. 150°C
Explosive range:	No data
Vapor pressure:	No data
Vapor density:	No data
Specific gravity:	No data
Solubility:	Insoluble in water
Octanol/water partition coefficient:	No data
Autoignition temperature:	No data
Decomposition temperature:	No data
Odor threshold level:	No data
Evaporation rate (butyl acetate = 1):	Not applicable
Combustibility (solids, gases):	Not applicable
Viscosity:	No data

10. Stability and reactivity

Stability:	Stable under ordinary conditions
Dangerous/toxic reaction potential:	No data
Conditions that must be avoided:	No data
Incompatibility with other materials:	No data
Hazardous decomposition products:	No data

11. Toxicological information

Acute toxicity:	No data
Skin corrosion/irritation:	No data
Serious eye damage/irritation:	No data
Respiratory sensitization/ skin sensitization:	No data
Germ cell mutagenicity:	Carbon black is Category 2. Category 2 was decided upon because each contains a minimum of 1%.
Carcinogenicity :	Carbon black is Category 2. Category 2 was decided upon because each contains a minimum of 1%.
Specific target organ systemic toxicity (Single exposure):	No data
Specific target organ systemic toxicity (Repeated exposure):	Carbon black is Category 1. Category 1 was decided upon because each contains a minimum of 10%. Due to the form and the way the product is used, however, the probability of carbon black or ink contained splashing is considered low.
Aspiration hazard:	No data

12. Ecological information

None

13. Disposal considerations

Must be disposed of in accordance with pertinent laws and local standards.

14. Transport information

UN regulations	
UN category:	Not applicable
UN No.:	Not applicable
JP regulations:	None
Special safety measures:	None

15. Regulatory information

Industrial Safety and
Health Law:

Hazardous substances that must be named
(Ordinance Article 57, No. 2; implementation No. 18,
Article 2, Table 9)

Fire Service Law:

Carbon black (government ordinance No. 130)
Specified combustible materials, combustible solids

16. Other information

None

Handling of contents

Not all materials and sources were investigated, and some information may consequently be left out. Contents are subject to change in the case of new findings or correction of existing descriptions. If used for important decisions, etc., we recommend proving by testing, etc. The figures given for content, physicochemical properties, etc., are not guaranteed.

The precautions contained herein apply to ordinary handling. This should be considered in the case of special handling.