



Control NO. : RBN-ML590-2

Material Safety Data Sheet

Ink Ribbon

For : ML590 / 591

Oki Data Corporation

Oki Data Corporation

SAFETY DATA SHEET

RBN-ML590

1. Identification of the substance/preparation and of the company/undertaking

Product name : ML590/591
Code : 4PB4025-1310P012 3PB4025-3205P002
Manufacturer : Oki Data Corporation
4-11-22, Shibaura, Minato-ku, TOKYO, 108-8551 JAPAN
Tel. +81-3-5445-6106. Fax +81-3-5445-6177
Supplier : Oki (Europe) Ltd.
1 Oki Way, Wardpark , Cumbernauld G68 0FQ, SCOTLAND, UK
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2. Hazards 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 : Category 3
Serious eye damage/irritation : Category 2A
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) : Category 2 (lungs)
Specific target organ systemic toxicity (Repeated exposure) : Category 1 (lungs, skin)
Aspiration hazard : No classification

ENVIRONMENTAL HAZARDS

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

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LABEL ELEMENT

Pictogram or symbol



Signal word : **Danger**

Danger/toxicity information : **Causes mild skin irritation.
Causes serious eye irritation.
Suspected of causing genetic defects.
May cause damage to lungs.
Causes damage to lungs and skin through prolonged or repeated exposure.**

Notes : **Should be stored in cool, dark places.
Wear protective gloves when required.
Avoid ingestion.**

3. Composition/information on ingredients

Distinction between single products and mixtures : **Mixtures**

Generic name : **Ink ribbon**

Chemical name :

Ingredients	Content (%)	Chemical Substances Control Law No.	CAS No.
Carbon black	12	Not applicable	1333-86-4
Other coloring materials	Confidential		
Mineral oil	10	9-1692	8012-95-1
Other oils	Confidential		
Additives	Confidential		
Nylon 6-6 fabric	Confidential		
PSM fiber	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 controls/personal protection

Controlled concentration	:	Not established
Allowable concentration	:	Not established as a product ACGIH Carbon black TLV-TWA 3.5 mg/m ³ Mineral Oil TLV-TWA 5.0 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 and PSM fiber 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

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11. Toxicological information

Acute toxicity	:	No data
Skin corrosion/irritation	:	Mineral oil is Category 3. Category 3 was decided upon because it contains a minimum of 10%.
Serious eye damage/irritation	:	Mineral oil is Category 2A. Category 2A was decided upon because it contains a minimum of 10%.
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)	:	Mineral oil is Category 2. Category 2 was decided upon because it contains a minimum of 10%.
Specific target organ systemic toxicity (Repeated exposure)	:	Carbon black and mineral oil are 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, mineral oil or ink contained splashing is consider 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) Carbon black (government ordinance No. 130) Mineral oil (government ordinance No. 168)
Fire Service Law	:	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.