



Control NO. : RBN-ML1120E-2

Material Safety Data Sheet

Ink Ribbon

For :ML1120/1190

Oki Data Corporation

Oki Data Corporation

SAFETY DATA SHEET

RBN-ML1120E

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

Product name : ML1120/1190
Code : 43485801
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

Explosives : Classification not possible
Flammable gases : Not gases
Flammable aerosols : Not aerosols
Oxidizing gases : Not gases
Gases under pressure : Not gases
Flammable liquids : Not classified
Flammable solids : Not solids
Self-reactive substances and mixtures : Classification not possible
Pyrophoric liquids : Classification not possible
Pyrophoric solids : Not solids
Self-heating substances and mixtures : Classification not possible
Substances and mixtures which, in contact with water, emit flammable gases in contact with water : Classification not possible
Oxidizing liquids : Classification not possible
Oxidizing solids : Not solids
Organic peroxides : Classification not possible
Corrosive to metals : Classification not possible
Acute toxicity (Oral) : Classification not possible
Acute toxicity (Dermal) : Classification not possible
Acute toxicity (Gases) : Not gases
Acute toxicity (Vapours) : Classification not possible
Acute toxicity (Dusts and Mists) : Classification not possible
Skin corrosion/irritation : Classification not possible
Eye damage /irritation : Classification not possible
Sensitization-Respiratory : Classification not possible
Sensitization-Skin : Classification not possible
Germ cell mutagenicity : Classification not possible
Carcinogenicity : Classification not possible
Toxic to reproduction : Classification not possible
Specific target organ systemic toxicity (Single exposure) : Classification not possible
Specific target organ systemic toxicity (Repeated exposure) : Classification not possible
Aspiration toxicity : Classification not possible
Hazardous to the aquatic environment-Acute hazard : Classification not possible
Hazardous to the aquatic environment-Chronic hazard : Classification not possible

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LABEL ELEMENT

Pictogram : None
Signal Words : None
Hazard statement : None
Prevention : None

3. Composition/information on ingredients

Substance or mixture : Mixture

Components	CAS No.	Content (%)	ISHA	PRTR	PDSCA
Carbon black	1333-86-4	<5	Applicable	N/A	N/A
Pigment 1	Secret	<5	Applicable	N/A	N/A
Pigment 2	Secret	<5	Applicable	Applicable	N/A
Dye	Secret	10-20	N/A	N/A	N/A
Oil	Secret	55-65	N/A	N/A	N/A
Resin	Secret	<10	N/A	N/A	N/A
Pigment 3	Secret	10-20	N/A	N/A	N/A

ISHA:Industrial Safety and Health Act ISHA:Industrial Safety and Health Act

PDSCA:Poisonous and Deleterious Substances Control Act

N/A:Not applicable

4. First aid measures

Skin : Wash away with soap and water immediatery. When skin swells and pain continue,take doctor's treatment.
Eye : Rinse cautiously with clean water for several minutes. Immediately take doctor's treatment.
Inhalation : Move the victims to the clean air space and rest in a comfortable position for breathing.When it feels sick ,take doctor's treatment.
Swallowed : Do not compel to vomit. Wash the mouth with water. Immediately take doctor's treatment.

5. Fire-fighting measures

Extinguishing media : Use water spray,dry chemical,carbon dioxide,or chemical foam.
Prohibited extinguishing media : Don't use stick-shaped water.
Special extinguishing method :
1. Cut the origin of the fire.
2. Wear the protection clothes and extinguish the fire from the windward.
3. Transfer to the safe place the movable containers immediatly.
4. Cool down the surrounding equipment by water.
5. Specify the place off limits around the fire.
Protection : Attach a suitable protection.

6. Accidental release measures

Personal precaution : In the case of a large quantity
1. Put a rope around the location of leaks. And specify to off-limit area.
2. Case indoor,get adequate ventilation.
3. Surely attach the protective equipment at work.
4. Keep a fire extinguisher to prepare.
In the case of a little quantity.
Use the protective gloves as required.
Environmental precautions : Prevent entry into waterway,sewers,basements or confined areas.
Methods for containment :
In the case of a large quantity :
1. Stop the leaked liquid by sands and earth.
2. Lead this liquid to a safety place.
3. Collect them into the empty container,and seal the container tightly.
In the case of a little quantity : Make a rags cloth or paper absorb the leaked liquid.

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7. Handling and storage

Handling : None
Storage : Avoid direct sunlight, and store in well-ventilated place.

8. Exposure CONTROLS/PERSONAL PROTECTION

Exposure limit values :

Component	Japanese Society of Occupational Health	ACGIH (TWA)	ACGIH (STEL)
Carbon black	Not established	3.5mg/m ³	Not established
Other components	Not established	Not established	Not established

Personal protection : Use personal protective gloves and/or glasses as required.
Equipment countermeasure : Not require special equipment

9. Physical and chemical properties

Appearance : Black liquid
Odor : Distinctive odor
pH : Not available
Boiling point : Not available
Flash point : 170°C over
Vapour pressure : Not available
Vapour density : Not available
Specific gravity : Not available
Solubility in water : Hardly solution in water
Upper/lower flammability or explosive limits : Not available

10. Stability and reactivity

Stability : This ink is stability under the usual handling condition
Conditions to avoid : High temperature, Heating, Fire, Spark, Sunlight
Materials to avoid : Strong acids, Strong bases, Oxidizer
Hazardous decomposition products : Toxic gases such as carbon monoxide and carbon dioxide may occur during combustion.

11. Toxicological information

Acute toxicity(oral) : Not Classified; Dye, Carbon black
Classification not possible; Other components
This product is classified as "Classification not possible", because no data to classify.
Not classified; Dye

Acute toxicity(Dermal) : Classification not possible; Other components
This product is classified as "Classification not possible", because no data to classify.

Acute toxicity(Gases) : This product is not gases.
Not classified; Dye

Acute toxicity(Vapours) : Classification not possible; Other components
This product is classified as "Classification not possible", because no data to classify.
Not classified; Dye

Acute toxicity(Dusts and Mists) : Classification not possible; Other components
This product is classified as "Classification not possible", because no data to classify.
Not classified; Dye

Skin corrosion/irritation : Classification not possible; Other components
This product is classified as "Classification not possible", because no data to classify.
Not classified; Dye

Eye damage/irritation : Classification not possible; Other components
This product is classified as "Classification not possible", because no data to classify.

Sensitization-Respiratory : Classification not possible; All components
This product is classified as "Classification not possible", because no data to classify.

Sensitization-Skin : Not classified; Dye
Classification not possible; Other components
This product is classified as "Classification not possible", because no data to classify.

Germ cell mutagenicity : Classification not possible; All components
This product is classified as "Classification not possible", because no data to classify.

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Carcinogenicity	:	Classification not possible;All components This product is classified as "Classification not possible",because no data to classify. (Note) Evaluaton results for the Carcinogenicity of carbon black in each Agency. IARC;Group 2B(The agent is possibility carcinogenic to humans.) ACGIH;A4(Not classifiabele as a human carcinogen) EPA;Not applicable EU;Not applicable NTP;Not applicable Japan Association of Industrial Health;2B Evaluation of carbon black is different in each agency. Therefore, not be possible classify.
Toxic to reproduction	:	Not classified;Dye Classification not possible;Other components This product is classified as "Classification not possible",because no data to classify.
Specific target organ systemic toxicity (Single exposure)	:	Not classified;Dye Classification not possible;Other components This product is classified as "Classification not possible",because no data to classify.
Specific target organ systemic toxicity (Repeated exposure)	:	Category 1(Lung);Carbon black Classification not possible;Other components Be contained the component of Category 1in this product. This product contains the component of category 1. But this content is less than 10%. The other components are classified as "Classification not possible". For these reasons,this product is classified as "Classification not possible".
Aspiration toxicity	:	Classification not possible;All components This product is classified as"Classification not possible",because no data to classify.

12. Ecological information

Hazardous to the aquatic environment-Acute hazard	:	Not classified;Carbon black ,Dye Classification not possible;Other components This product is classified as"Classification not possible",because no data to classify.
Hazardous to the aquatic environment-Chronic hazard	:	Not classified;Carbon black ,Dye Classification not possible;Other components This product is classified as"Classification not possible",because no data to classify.

13. PRECAUTION FOR DISPORZAL

Residual waste:

When you dispose this product,you observe the relevant laws/regulations and local government rules.

Entrust industrial waste to disposal contractor licensed by the prefecture governor.

It is important to tell toxicity and risk of the product to the contractor,prior to disposal.

Contaminated containers and packages:

The empty container is scripted after the contents are removed completely.

Scrape the empty container after the contents are removed completely.

Entrust container and contents to disposal contractor licensed by the prefecture governor.

14. Precaution for transportation

UN regulations

UN classification	:	Not appliciable
UN unumber	:	Not appliciable
Name and Description	:	Not appliciable
Land transportation	:	According to the Fire Services Act and Industrial Safety and Health Act.
Marine transportation	:	According to Ship Safety Law and Ports and Harbors Act.
Air transportation	:	According to Civil Aeronautics Act.

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15. Applicable laws

Components	ISHA	PRTR	PDSCA
Carbon black	Carbon black(#130)	Not applicable	Not applicable
Pigment 1	Copper and its compounds (#379)	Not applicable	Not applicable
Pigment 2	Molybdenum and its compounds(#603)	Molybdunum and its compounds(1-453)	Not applicable
Dye	Not applicable	Not applicable	Not applicable
Oil	Not applicable	Not applicable	Not applicable
Resin	Not applicable	Not applicable	Not applicable
Pigment 3	Not applicable	Not applicable	Not applicable

Fire and Disaster Management ACT : Group of the third petroleum
Civil Aeronautics Act : Not applicable
Ports and Harbors Act : Not applicable
Ship Safety Act : Not applicable

16. Other information

The information has been created based on materials and information that we obtained. However, this is no warranty about contents, physicochemical information, and hazardous. And, the precautions are shown about the attention point in usual handling. For special handling, please use this material after you confirm the safety countermeasure which is suitable for the use and usage. This information may be change when we obtained the new materials and information.