

INFOTEC

HEALTH AND SAFETY DATA SHEETS

MF10

DECLARATION OF CONFORMITY

We RICOH CO., Ltd. at address is 3-6, Naka-magome
1-Chome, Ohta-Ku, Tokyo 143, Japan

declare under our sole responsibility that the product
consisting of the following ;

Product Name : *Facsimile Transceiver*
Model No. : *infotec MF10*

《OPTION UNIT》

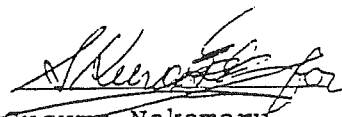
<u>Product Name</u>	<u>Model No.</u>
<i>Paper Cassette</i>	<i>PAPER CASSETTE Type 10</i>
<i>Memory Card</i>	<i>FAX EXPANSION CARD TYPE 10</i>
<i>Memory Card</i>	<i>FAX EXPANSION CARD TYPE 20</i>
<i>Memory Card</i>	<i>FAX EXPANSION CARD TYPE 40</i>

to which this declaration relates is in conformity with
the following standards

Safety : EN 60950:1992+A1,A2:1993,+A3: 1995
 EN 60825-1: 1994
EMC : EN 55022:1994 +A1 1995 Class B
 EN 50082-1:1992 IEC 801-2:1991
 IEC 801-3:1984
 IEC 801-4:1988

following the provisions of the EMC Directive 89/336/EEC
and Low Voltage Directive 73/23/EEC.

Place : Tokyo, Japan
Date : August 21, 1997

Signature: 
Full Name: ~~Susumu~~ Nakamaru
Position : General Manager
Products and Environmental Safety
Center
Quality Management Division

European Contact:
Ricoh Europe B.V. Quality Assurance Division, Groenelaan 3
P.O. Box.114, 1180 AC, Amstelveen, Holland. (L20)infoMF10)

RICOH EUROPE B.V.
Groenelaan 3, P.O. Box 114, 1180 AC Amstelveen, Holland Tel. +31-(0)20-5474111, Fax +31-(0)20-6418601

Danka
attn. Mr. H. Lau
Anton-Zee-Strasse 10
Mainz-Kastel 55252
Germany

IDENTITY CONFIRMATION

Amstelveen, September 2, 1997

Herewith I confirm, that the following below listed machines, Ricoh machines, are fully identical with the corresponding Infotec except for the colour of the outer covers:

RICOH

Aficio FX10

Infotec

MF10

Best regards,



Riëtta Klijn, Environment & Safety Monitoring Office
Environmental Coordinator
RicoH Europe BV
P.O. Box 114
1180 AC Amstelveen (Holland)

SAFETY and HEALTH INFORMATION
MODEL NAME: AFICIO FX 10 and its Consumables
(L 20), Infotec MF10

issued on Mar.14,'97

1. Safety Standards

(1) Electrical Safety

Safety Standards	<u>UL</u>	<u>CSA</u>	<u>EN60950,60825</u>
	1950	C22.2-No.950	
Aficio FX 10	OK	OK	OK

(2) Radio Interference

Safety Standards	<u>FCC</u>	<u>VDE</u>
	Class A	0878
Aficio FX 10	OK	OK

2. Hazardous Materials Generated by Operation of Machines

(1) Ozone produced by the machine

1.1 Conditions of measurement	
Room size _____	32.8 cubic meter
Machine operation _____	8 hours continuous
Ventilation _____	no ventilation
Temperature and humidity _____	24-30, 40-62%RH
Measurement equipment _____	Dylec Ozone Monitor Dye 1500
Paper size used _____	A-4
Measurement method _____	UL method

1.2 Result of measurement	
Operator's breathing area _____	0.016 ppm(average)
	0.021 ppm(maximum)

1.3 Evaluation
The above result is below the OSHA permissive concentration of 0.1ppm and judged safe under normal use condition.

(2) Dust produced by the machine

2.1 Conditions of measurement	
Room size _____	30 cubic meter
Machine operation _____	8 hours intermittent under the conditions of 3.75min on/56.25 min off
Ventilation _____	no ventilation
Temperature and humidity _____	22, 50 %RH
Measurement equipment _____	Piezobalance dust meter
Paper size used _____	A-4

2.2 Results of measurement	
Operator's breathing area _____	0.009 mg/m ³ (average)
The copy volume produced under the above machine operation condition is equivalent to 1.5 times of the specified copy volume of this copier.	

The above result is well below the OSHA permissive concentration of 5mg/m³ and judged safe under normal conditions of use.

MODEL NAME: AFICIO FX 10 and its Consumables
(L 20), Infotec MF10

3. Noise Level

3-1. Sound Power Level

Idling	36 dB(A)	(LWA)
Transmitting	60 dB(A)	(LWA)
Receiving	58 dB(A)	(LWA)
Copying	61 dB(A)	(LWA)

3-2. Sound Pressure Level at the operator position

Idling	24 dB(A)	(LPA)
Transmitting	54 dB(A)	(LPA)
Receiving	49 dB(A)	(LPA)
Copying	53 dB(A)	(LPA)

The measurements are to be made according to ISO 7779.

4. Power Consumption and Heat Emission

	<u>Power Consumption</u> Aficio FX 10	<u>Heat Emission</u> Aficio FX 10
<u>4-1. US Version(115V)</u>		
Stand-by	0.020 kW	10.3 kcal *
Transmitting	0.025 kW	12.9 kcal *
Receiving	0.210 kW	108.4 kcal *
Copying	0.270 kW	139.3 kcal *
<u>4-2. European Version(230V)</u>		
Stand-by	0.030 kW	15.5 kcal *
Transmitting	0.035 kW	18.1 kcal *
Receiving	0.210 kW	108.4 kcal *
Copying	0.270 kW	139.3 kcal *

* Supposing that 60% of the electrical power consumption would be converted into heat.

5. Health Hazard Data

(1) <u>Ames test results</u> :	Negative
(2) <u>Skin irritation(rabbit)</u> :	Not irritating
(3) <u>Acute oral toxicity(rat) LD50</u> :	Greater than 5g/kg body weight

6. Scanner Light Source

A Xenon lamp is used. The emission amount of ultraviolet rays of less than 320 NM wave length which are said to have some effects on human body is in a negligible level.

7. Safety Data on Supply Items

(Refer to Material Safety Data Sheets.)

- (1) DRUM TYPE 100(Drum in Drum Cartridge)
- (2) TONER CASSETTE TYPE 1110D(Toner in Toner Cartridge)(US)
- (3) TONER CASSETTE TYPE 1210D(Toner in Toner Cartridge)(Europe)
- (4) TONER CASSETTE TYPE 1310D(Toner in Toner Cartridge)(Asia)

MATERIAL SAFETY DATA SHEET MFD

IDENTITY (As Used on Label and List)

OPC for RICOH PHOTOCONDUCTOR TYPE100

Note: Blank spaces are not permitted.

If any item is not applicable, or no information is available, the space must be marked to indicate that.

Section I

Manufacturer's Name

Ricoh Company, Ltd.

Emergency Tel. No. 0559-21-2251, Japan

Tel. No. for information Ditto

Date Prepared January 13, 1995

Address 16-1 Honda-machi, Numazu-shi, Shizuoka-kan, 410 Japan

Section II -Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))

Ingredients	Contents (%)	ACGIH TLV	Hazardous Chemical		Carcinogens		
			ACGIH	OSHA	OSHA	NTP	IARC
Al substrate (CAS#:7429-90-5)	97.4	X	X	X	X	X	X
Coating	2.6						
Stilben derivative (CAS#:89114-91-0)	30.8	X	X	X	X	X	X
Polycarbonate (CAS#:25135-52-8)	42.3	X	X	X	X	X	X
Titanium dioxide (CAS#:13463-67-7)	19.2	10mg/m ³ ☆	○	○	X	X	X
Organic Pigment (CAS#:84809-01-8)	7.7	X	X	X	X	X	X

Note X Not listed, ○ listed

☆ listed as nuisance dust

Section III -Physical/Chemical Characteristics

Boiling Point	N/A	Specific Gravity (H ₂ O=1)	N/A
Vapor Pressure (mmHg)	N/A	Melting Point	N/A
Vapor Density (Air=1)	N/A	Evaporation Rate (Butyl Acetate=1)	N/A
Solubility in Water Negligible.			
Appearance and Odor Dark green drum, no odor.			

Section IV -Fire and Explosion Hazard data

Flash Point (Method used).	Flammable limits (%)	LEL	UEL
N/A	N/A		
Extinguishing Media Water, foam or dry chemical.			
Special Fire Fighting Procedures None.			
Unusual Fire and Explosion Hazards None.			

Section V -Reactivity Data

Stability	Unstable	Condition to Avoid
	Stable	X N/A
Incompatibility (Materials to Avoid) : None		
Hazardous	May Occur	Condition to Avoid
Polymerization	Will Not Occur	X N/A
Hazardous Decomposition or Byproduct Carbon monoxide and other decomposition products in case of incomplete combustion.		

Section VI -Health Hazard Data

Route(s) of Entry :	Inhalation ?	Skin ?	Ingestion ?
	N/A		
Health Hazards (Acute and Chronic) There are no health hazards under normal use condition. Acute oral toxicity(rat): Greater than 5g/kg bodyweight(Main ingredients). Skin irritation(rabbit): None-irritant(Main ingredients). Ames test result: Negative(Main ingredients).			
Carcinogenicity :	NTP ?	IARC Monograph ?	OSHA Regulated ?
See Section II			

Signs and Symptoms of Exposure	None under normal use condition.
Medical Conditions Generally Aggravated by Exposure	Will not occur.
Emergency and First Aid Procedures	Skin contact: Wash thoroughly with soap and water.

Section VII -Precautions for Safe Handling and Use	
Steps to Be Taken in Case Material Is Released or Spilled	
N/A	
Waste Disposal Method	Used drum should be disposed of in an environmentally safe manner and in accordance with governmental regulations.
Precautions to Be Taken in Handling and Storing	
Store in cool and dry place.	
Other Precautions	None.

Section VIII -Control Measures		
Respiratory Protection (Specify Type)		
None needed.		
Ventilation	Local Exhaust	Special
	Mechanical (General)	Other
	None needed.	None needed.
	Adequate ventilation.	None needed.
Protective Gloves	None needed.	Eye Protection
		None needed.
Other Protective Clothing or Equipment		
None needed.		

Work/Hygiene Practices

Ventilate confined space. Cleanse skin thoroughly after contact.
before breaks and meals, and at the end of work period.

Section IX -Transportation Information

NFPA Rating(U.S.A.) : Health Hazards = 0

Flammability Hazards =1

Reactivity Hazards = 0

DOT Recognized Chemical Name : N/A

Hazard Classification : N/A

UN Number : N/A

page (4/4) OPC for RICOH PHOTOCONDUCTOR TYPE100

品名: '94年11月15日 記 品D0015 PL3-2

The information and recommendations contained herein are, to the best of Ricoh's knowledge and belief, accurate and reliable as of the date issued. Ricoh does not warrant or guarantee their accuracy or reliability, and Ricoh shall not be liable for any loss or damage arising out of the use thereof.

The information and recommendations are offered for the user's consideration and examination, and it is the user's responsibility to satisfy itself that they are suitable and complete for its particular use.

Signature

Name and position

Akira Hashimoto

Products R&D Department

Chemical Products Division

Material Safety Data Sheet

MFW-

Data Issued : '97.02.26

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

1.1. Product name :

RIFAX TONER TYPE1210D

1.2. Company name : RICOH Company Ltd.

Address : 16-1 Honda-machi, Numazu-shi, Shizuoka-ken, 410 Japan

Telephone number for information : 0559-20-1000

Emergency telephone number : Ditto

2. Composition/information on Ingredients

2.1. Ingredients and their concentration

Styrene Acrylic Polymer	(CAS# : 25036-19-5)	35 %
Polyester Resin	(CAS# : Confidential)	17 %
Polyolefine	(CAS# : 9003-07-0)	3 %
Iron Oxide	(CAS# : 1317-61-9)	44 %
Dye	(CAS# : 31714-555-3)	1 %

2.2. Substances presenting a health hazard and concentration :

None

2.3. Symbols of danger and R phrases :

Not applicable.

3. Hazards identification

None under normal use condition.

4. First-aid measures

4.1. Inhalation : Remove from exposure.

4.2. Skin contact : Wash thoroughly with soap and water.

4.3. Eye contact : Try to remove or flush out with eye drops.

4.4. Ingestion : Dilute stomach contents with several glasses of water.

5. Fire-fighting measures.

5.1. Suitable extinguishing media :

Foam, water spray(fog), dry chemical or carbon dioxide may be suitable.

5.2. Extinguishing media which must not be used for safety reasons :

None needed.

5.3. Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases :

Carbon monoxide and other decomposition product in case of Incombustion.

5.4. Special protective equipment for fire-fighters :

None needed

6. Accidental release measures

If spilled sweep up or pick up by vacuum cleaner(rated for toner extraction).
with governmental regulations. Do not incinerate.

7. Handling and storage

7.1. Handling : Do not handle in areas where winds blows.

7.2. Storage : Keep out of children.
Store in cool and dry place.

8. Exposure controls/personal protection

8.1. Respiratory protection :

None needed under normal use condition.

8.2. Hand protection :

None needed under normal use condition.

8.3. Eye protection :

None needed under normal use condition.

8.4. Skin protection :

None needed under normal use condition.

9. Physical and chemical properties

Appearance : Black Powder

Bluk density : 1.8

melting point : No data

solubility in water : Negligible

10. Stability and reactivity

10.1. Conditions to avoid : None.

10.2. Materials to avoid : None.

10.3. Hazardous decomposition products :

Carbon monoxide and other decomposition product in case of incomplete combustion.

11. Toxicological information
Acute oral toxicity(rat)LD ₅₀ : Greater than 5g/kg bodyweight Skin irritation(rabbit) : None. Ames test result : Negative
12. Ecological information
None.
13. Disposal considerations
Used toner should be disposed of in an environmentally safe manner and in accordance with governmental regulation. Do not incinerate.
14. Transport information
None.
15. Regulatory information
None.
16. Other information
None.

page 3 of 3 Product name :RIFAX TONER TYPE1210D

発行日: '95年 5月15日 化品D0015 PL様式 3-12

Signature M. morooka
 Name and position Masakatsu Morooka
General Manager
Quality Assurance Department
Chemical Products Business Group