

# DANKA

4220 / 4270

# infotec

## DECLARATION OF CONFORMITY

We Danka Distribution B.V., at address,  
Bruistensingel 208  
5232 AD 's-Hertogenbosch, The Netherlands

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

**Product Name : Digital Electrostatic Copier**  
**Model No. : infotec 4220MF**

### OPTION UNIT (Page 1)

Product Name	Model No.	Product Name	Model No.
1 Bin Tray	PT270	ADF	DF69
LCT	PS420	Bank	PS440
Finisher	SR720	Duplex Unit	AD360
Bridge Unit	Bridge Unit Type 270		
Bypass Tray	Bypass Tray Type 270		
I/C Unit	Interchange Unit Type 270		
MSU Memory	Copier Feature Expander Type 180		
Internal Shift Sort Tray	Internal Shift Sort Tray Type 270		
FAX Unit	FAX Option Type 270		
G3 Unit	G3 Interface Unit Type 270		

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

Safety : EN 60950:1992+A4 1997  
EN 60825-1: 1994, A11 : 1996  
EMC : EN 55022:1994 + A1 1995 Class B  
EN 50082-1: 1992 IEC 801-2:1991  
IEC 801-3:1984  
IEC 801-4:1988  
EN 61000-3-2 : 1995  
EN 61000-3-3 : 1995

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

CE Mark is affixed in 1999

Place : 's-Hertogenbosch, NL  
Date : Dèzember 29, 1999

Signature:   
Full Name: Harald Lau  
Position : Manager  
Danka Distribution B.V.

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**OPTION UNIT (Page 2)**

<b>Product Name</b>	<b>Model No.</b>
<i>ISDN G4 Unit</i>	<i>ISDN Option Type 270</i>
<i>JBIG Board</i>	<i>FAX Function Upgrade Type 270</i>
<i>PC-Fax</i>	<i>PC-Fax Expander Type 270</i>
<i>Printer Unit</i>	<i>Printer Controller Type 270</i>
<i>Scanner Unit</i>	<i>Scanner Option Type 270</i>
<i>NNIC Ethernet</i>	<i>Network Interface Board 185-E</i>
<i>HD Unit</i>	<i>Printer Hard Disk Type 185</i>
<i>Post Script Kit</i>	<i>Post Script 3 Kit Type 185</i>
<i>Hand Set</i>	<i>Handset Type 100</i>

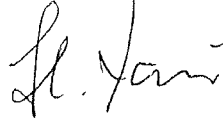
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## SAFETY AND HEALTH INFORMATION

issued 99/09/24

MODEL NAME: Infotec 4220 MF  
(Model Russian C1a)

### 1. Hazardous Materials Generated by Operation of Machines

#### (1) Ozone produced by the machine

##### a. Result of measurement

0.0125[mg/m ] (0.0064[ppm])

##### b. Method of measurement

Room size: 50 cubic meter

Machine operation: 2 hours continuous operation

Ventilation: no ventilation

Temperature and humidity: between 23 degrees and 27 degrees, not more than 50%RH

Measurement equipment: Dylec Ozone Monitor Model-1200

Measurement position: the height from the ground of room /1.2m

the distance from the front of machine / 0.3m

Paper size used: A4

##### c. Ozone Filter

not attached

#### (2) Dust produced by the machine

##### a. Results of measurement

0.0153[mg/m<sup>3</sup>]

##### b. Method of measurement

Room size: 50 cubic meter

Machine operation: 2 hours continuous operation

Ventilation: no ventilation

Initial temperature and humidity: between 23 degrees and 27 degrees , not more than 50%RH

Measurement equipment: Open face type filter-folder which sniffle diameter is 44mm and filter diameter is 55mm. Dylec T60A20 (Teflon bind glass fiber filter) is attached.

Measurement position: the height from the ground of room /1.65m

the distance from the front of machine / 0.1m

Paper size used: A4 (black part of sheet:6%)

## SAFETY AND HEALTH INFORMATION

issued 99/09/24

**MODEL NAME: Infotec 4220 MF**  
**(Model Russian C1a)**

(3)Styrene produced by the machine

a.Results of measurement

0.0052[mg/m<sup>3</sup>]

b.Method of measurement

Room size: 50 cubic meter

Machine operation: 2 hours continuous operation

Ventilation: no ventilation

Initial temperature and humidity: 25<sup>o</sup>C, not more than 50%RH

Measurement method: according with VDI 3482 Blad 4 method, it is caught by activated carbon and analyzed by gas chromatography

Measurement position: the height from the ground of room /1.2m

the distance from the front of machine / 0.3m

Paper size used: A4 (black part of sheet: 6%)

According to BAM

### 2.Noise Level

(1)Sound Power Level [L<sub>WA</sub>:dB(A)]

a.Copying ----- 60 dB(A)

b.Stand-by ----- 35 dB(A)

(2)Sound Pressure Level at the operator position [L<sub>pA</sub>:dB(A)]

a.Copying ----- 49 dB(A)

b.Stand-by ----- 21 dB(A)

(3)Sound Pressure Level at the bystander position [L<sub>pA</sub>:dB(A)]

a.Copying ----- 49 dB(A)

b.Stand-by ----- no data dB(A)

\*The measurements are to be made in accordance with ISO 7779.

### 3.Power Consumption

(1)International energy star(Working voltage:230 V)

Table 3-1. International energy star

	Low power mode [W]	Low power mode default time [min.]	Recovery time [sec.]	Off mode [W]	Off mode default time [min.]
Measurement value	73	15	25	0.1	60

## SAFETY AND HEALTH INFORMATION

issued 99/09/24

**MODEL NAME: Infotec 4220 MF**  
**(Model Russian C1a)**

(2)ASTM

Table 3-2-1. ASTM data (1)

		Monthly copy volume	Plug-in energy [Wh]	Warm-up plus standby energy [Wh]	Standby energy [Wh]
	Copy volume(a)	5000	0.1	119.42	105.26
One side copying mode	Copy volume(b)				
	Copy volume(a)				
Duplex copying mode	Copy volume(b)				

Table 3-2-2. ASTM data (2)

		Energy-saver energy [Wh]	Copying energy plus standby [Wh]	Energy saver delay time [min.]	Recovery energy plus energy-saver energy [Wh]
	Copy volume(a)	77.6	177.82	24.5sec	82.05
One side copying mode	Copy volume(b)				
	Copy volume(a)				
Duplex copying mode	Copy volume(b)				

(3)Swiss 2000

Table 3-3. Swiss 2000

	Plug in mode [W]	Standby mode [W]
Measurement value		

(3)Maximum energy consumption (target data)  
1355 [W]

#### 4. Scanner Light Source

A halogen 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.

#### 5. Supply Items

(Refer to model name and supply database on RECSIS.)

Photo Conductor Unit Type270 OPC

Photo Conductor Unit Type270 Developer

Toner Type 42/I Black

# Material Safety Data Sheet (ISO form)

Date Prepared 99/07/23

## 1. Product and Company Identification

Product Name TONER TYPE 42/1 BLACK

Company Name : Ricoh Company, Ltd.

Address : 16-1 Honda-machi Numazu-shi Shizuoka-ken, 410-8505 Japan

Telephone Number : 0559-20-1000, Japan

Emergency Telephone Number : 0559-20-1000, Japan

Telefax Number : 0559-20-1049, Japan

## 2. Composition/Information on Ingredients

Substance or Preparation  
Preparation

Chemical Nature

Ingredients	CAS.No.	Contents(%)
Polyester resin	Confidential	60180
Styrene-Acrylic-Polymer	25767-47-9	10130
Carbon Black	1333-86-4	7115
Wax	8015-86-9	<5
Dye	31714-55-3	<1

Components Contributing to The Hazard  
applicable for it mentioned below

Their Chemical or Generic Name/Their Concentration or Concentration Range  
not relevant %

## 3. Hazards Identification (Most Important Hazard)

Adverse Human Health Effects  
Not applicable in normal use.

Carcinogenicity

Carbon Black was reclassified as a Group 2B by IARC in 1996 based on the result of only the inhalation study in rats. However there was not observed the incidence of tumors on the test results on dermal or oral studies. Also 2-years inhalation study using a typical toner containing carbon black showed no association between toner exposure and animal tumors.

Environmental Effects  
Not applicable in normal use.

Physical and Chemical Hazards  
Not applicable in normal use.

The Classification of The Chemical Product  
Not applicable

Product Name TONER TYPE 42/1 BLACK

1/5

#### 4. First-Aid Measures

##### Inhalation

Gargle with water, move to place in fresh air. If unsuccessful, get medical attention.

##### Skin Contact

Wash thoroughly with soap and water.

##### Eye Contact

Try to remove with eye drops or flush with water. If unsuccessful, get medical attention.

##### Ingestion

Dilute stomach contents with several glasses of water. If unsuccessful, get medical attention.

#### 5. Fire-Fighting Measures

##### Extinguishing Media

CO<sub>2</sub>, dry chemicals, foam or water.

##### Specific Method

Generally by sprinkling or extinguisher.

#### 6. Accidental Release Measures

##### Personal Precautions

Minimize inhalation of dust.

##### Environment Precautions

Keep product out of sewers and watercourses.

##### Methods for Cleaning Up

If spilled, sweep up or pick up by vacuum cleaner (rated for Toner extraction).  
Remove residue with soap and water.

#### 7. Handling and Storage

##### Handling (technical measures, precautions, safe handling material)

Do not handle in areas where wind blows.  
Flying powder may enter eyes.  
Minimize breathing dust.

##### Storage (technical measures, storage conditions, packaging material)

Avoid direct sunlight.  
Do not keep this over 35°C.  
Keep out of reach of children.

## 8. Exposure Controls/Personal Protection

### Respiratory Protections

None required under normal conditions of use.

### Hand Protection

None required under normal conditions of use.

### Eye Protection

None required under normal conditions of use.

### Skin and Body Protection

None required under normal conditions of use.

## 9. Physical and Chemical Properties

### Physical State

Form : Powder

Color : Black

Odour : Slightly plastic odor

### Information

pH : not applicable Measuring Temp.(°C) :-

Boiling Point(°C) : not applicable

Flash Point(°C) : not applicable

Explosion Properties(°C) : This product is considered a nonexplosive material under normal use condition.

Vapor Pressure(Pa) : not applicable Measuring Temp.(°C) :-

Vapor Density(AIR=1) : not applicable

Density (g/cm<sup>3</sup>) : approx.1.2 Measuring Temp.(°C) : 25

### Solubility

Water Solubility(g/L) : Insoluble

Water Solubility Measuring Temp.(°C)

Other Solvent name

Other Solvent Solubility(g/L)

Other Solvent Solubility Measuring Temp.(°C) :-

Octanol/Water Partition Coefficient  
non-biodegradable

## 10. Stability and Reactivity

### Conditions to Avoid

Not applicable in normal use.

### Materials to Avoid

Not applicable in normal use.

### Hazardous Decomposition Products

carbon monoxide and other decomposition product may occur in case of incomplete combustion

Styrene



## 11.Toxicological Information

### Acute Toxicity

#### Acute Oral Toxicity

Rat : > 5000mg/kg

#### Acute Dermal Toxicity

: not available

#### Acute Inhalation Toxicity

: not available

### Sensitization

Acute Skin Irritation : non-irritant

Acute Eye Irritation : not applied

Acute Allergenic Effects : non-skingsensitive

### Specific Effects

#### Carcinogenicity :

In 1996 IARC reevaluated Carbon Black as a Group 2B carcinogen (possible human carcinogen). This evaluation is given to carbon black for which there is inadequate human evidence, but sufficient animal evidence. The latter is based upon the development of lung tumors in rats receiving chronic inhalation exposures to free carbon black at levels that induce particle overload of the lung. Studies performed in animal models other than rats have not demonstrated an association between carbon black and lung tumors. Moreover, 2-years cancer bioassay using a typical toner preparation containing carbon black did not demonstrate an association between toner exposure and tumor development in rats.

Mutagenicity : negative

Effects on The Reproductive System : No data is available on this product.

Teratogenic : not available.

## 12.Ecological Information

Persistence/Degradability : non-biodegradable

### Bioaccumulation

Not known in bioaccumulation.

### Ecotoxicity

Acute Toxicity for Fish : >500 (mg/kg/96hr)

Acute Toxicity for Daphnia : not available (mg/kg/48hr)

Algae inhibition Test : not available (mg/kg/72hr)

## 13.Disposal Consideration

### Recommended Methods for Safe Environmentally Preferred Disposal

Used toner should be disposed of in an environmentally appropriate manner and in accordance with governmental regulations. Do not incinerate.

#### 14. Transport Information

##### International Regulations

RID/ADR : not applicable

DOT 49 CFR : not applicable

ADNR : not applicable

IMDG Code : not applicable

ICAO-TI/IATA-DGR : not applicable

The UN Classification Number : not applicable

##### Specific Precautionary Transport Measures

Avoid direct sunlight. Do not keep this over 35°C.

##### Specific Materials to Avoid

None in normal use.

#### 15. Regulation Information

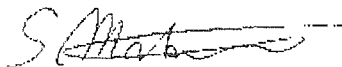
##### Regulations

not known

#### 16. Other Information

##### References:

- 1) IARC(1996) "IARC Monograph on the Evaluation of the Carcinogenic Risk of Chemicals to Humans, Vol.65, Printing Process and Printing Inks, Carbon Black and Some Nitro Compounds", Lyon, pp149-261
- 2) H.Muhle, B.Bellman, O.Creutzenberg, C.Dasenbrock, H.Emst, R.Kilpper, J.C.MacKenzie, P.Morrow, U.Mohr, S.Takenaka and R.Mermelstein(1991) "Pulmonary Response to Toner upon Chronic inhalation Exposure in Rats" Fundamental and Applied Toxicology 17,pp280-299



Signature

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