

MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD
 Office Equipment Division
 9-1, Hirafudo Kogyo Danchi, Utsunomiya City, Tochigi Pref., 321-JAPAN
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Material Safety Data Sheet

FP-1300/1310R
 BLUE TONER

(This Form is Similar to U.S. Labor Dept. Form Approved OHS No. 1218-C072)

Date: Jan. 8, 1988

SECTION I

Product Name Panasonic Dry Toner FQ-T10CB-PC	Chemical Name & Synonyms Electrostatic Toner
Product Class Inert resinated blue powder	Emergency Phone No. Matsushita Electric Industrial Co., Ltd. Japan 0286-63-3221

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

INGREDIENTS (CHEMICAL NAME)	CAS #	H	LISTED AS A HAZARDOUS			
			OSHA	OSHA PEL	ACGIH	ACGIH TLV
C.I. Pigment Blue 15:3	147-14-8	1-6	NL	NL	NL	NL
Iron Oxide	1309-37-1	5-10	NL	NL	NL	NL
Titanium Oxide	13463-67-1	15-20	L	15.0mg/m ³	L	10.0mg/m ³
BaSO ₄	25767-47-9	15-20	NL	NL	NL	NL
BaCO ₃	9893-87-0		NL	NL	NL	NL
Amalthe	7631-86-9	1	L	80.0mg/m ³	L	10.0mg/m ³
Amalthe	72869-85-3	1-6	NL	NL	L	0.5mg/m ³

TLV of the Product: 10 mg/m³ (Total Dust), 5 mg/m³ (Respirable)
 PEL of the Product: 15 mg/m³ (Total Dust), 5 mg/m³ (Respirable)

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	Not applicable.	Specific Gravity (d ₄ - 1)	1.3
Vapor Pressure (mm Hg.)	Not applicable.	Melting Point	165 °C
Vapor Density (AIR = 1)	Not applicable.	Evaporation Rate (Butyl Acetate = 1)	Not applicable.
Solubility in Water	Insoluble.		
Appearance and Odor	Fine blue powder, practically odourless.		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Not applicable.	Flammable Limits	Not applicable.
Extinguishing Media	Water, CO ₂ , Foam, Dry Chemical.		
Special Fire Fighting Procedures	Not flammable or combustible but will burn if ignited. Extinguish with water, CO ₂ , foam, dry chemical.		
Unusual Fire and Explosion Hazards	None under normal storage and use conditions.		

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 BLUE TONER

SECTION V - REACTIVITY DATA

Stability	Unstable		Conditions to Avoid	Abnormally high temperature.
	Stable	✓		
Incompatibility (Inorganic/organic)				
None.				
Hazardous Decomposition or Hydrolysis				
None in normal handling and use.				
Hazardous Polymerization	May Occur		Conditions to Avoid	Abnormally high temperature.
	Will Not Occur	✓		

SECTION VI - HEALTH HAZARD DATA

Route(s) of Entry:	Inhalation ?	Skin ?	Ingestion ?
	✓		✓
Health Hazard (Acute and Chronic)			
Health hazard is minimal being neither irritating, corrosive, volatile, nor toxic. Mutagenicity is negative.			
Carcinogenicity:			
	NIH ?	IARC Monographs ?	OSHA Regulated ?
Not use carcinogens which are listed in NTP, IARC and OSHA.			
Signs and Symptoms of Exposure			
Contact with eyes may result in mechanical irritation. Inhalation of dust may irritate mucous membranes. Ingestion may result in gastric disturbances.			
Hazardous Conditions			
Generally Aggravated by Exposure			
EYES-----Immediately wash eyes with running water for 15 minutes. If irritation develops, get medical attention.			
Emergency and First Aid Procedures			
SKIN-----Wash affected areas with soap and water. If irritation develops, get medical attention. Remove and launder contaminated clothing before reuse.			
INGESTION----If swallowed dilute with water and immediately induce vomiting. Get medical attention if the victim is unconscious or having convulsion.			
INHALATION----Remove to fresh air area. Aid in breathing if necessary and get medical attention.			

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be Taken in Case Material is Released or Spilled	Vacuum or sweep up dry powder.
Waste Disposal Method	Dispose in accordance with local, state and federal regulations.
Precautions to be Taken in Handling and Storing	Avoid dust inhalation and skin contact.
Other Precautions	Keep containers closed. Store in a cool, dry place.

SECTION VIII - CONTROL MEASURES

Respiratory Protection (Specify Type)				
None required under normal use.				
Ventilation	Local Exhaust	None required under normal use.	Special	None required under normal use.
	Acheical (General)	None required under normal use.	Other	None required under normal use.
Protective Gloves	None required under normal use.		Eye Protection	None required under normal use.
Other Protective Equipment				
None required under normal use.				
Work/Hygiene Practices				
Minimize breathing dust.				

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**TOYO INK
MFG. CO., LTD.**

Cable Address:
ORIENTAL TOKYO
Telex NO. 222-8563

NO. 3-13, Kyobashi 2-Chome,
Chuo-ku, Tokyo, Japan
Tel. 03-272-5711

January 8, 1988

Messrs, Matsushita Electric Industrial Co., Ltd.

CERTIFICATE

Dear Sirs,

We hereby certify that all chemical substances found in the following products comply with all applicable rules and orders under TSCA (Toxic substances control act). They consist of chemical substances which are included in TSCA inventory:

TONER (FO-T10CR-PG) and DEVELOPER (FO-Z103R-PG) to be applied to PPC copier FP-1300, of Matsushita Electric Industrial Co., LTD. made.

INGREDIENTS		CAS #	%
(CHEMICAL NAME)			
TONER (FO-T10CR-PG)	C.I. Pigment Red 48:3	15782-05-5	1 ~ 6
	Iron Oxide	1309-37-1	5 ~ 10
	Titanium Oxide	13463-67-7	15 ~ 20
	Resin	25767-47-9	} 75 ~ 80
	Resin	9003-07-0	
	Additive	7631-86-9	< 1
	Additive	72869-85-3	1 ~ 6

INGREDIENTS		CAS #	%
(CHEMICAL NAME)			
DEVELOPER (FO-Z103R-PG)	C.I. Pigment Red 48:3	15782-05-5	< 1
	Mn-Ferrite	1309-38-2	} 55 ~ 60
		1313-13-9	
	Iron Oxide	1309-37-1	1 ~ 6
	Titanium Oxide	13463-67-7	1 ~ 6
	Resin	25767-47-9	} 37 ~ 42
	Resin	39382-25-7	
Additive	7631-86-9	< 1	

Sincerely yours,
TOYO INK MFG. CO., LTD.

Masaru Suzuki
Masaru Suzuki
Sect. Manager
Electronic Materials Div.

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MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.

Office Equipment Division
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Phone No. Japan 0286-63-3223, Fax No. Japan 0286-62-8333

Material Safety Data Sheet FP-1300/1310R
RED DEVELOPER

(This Form is Similar to U.S. Labor Dept. Form Approved OEB No. 1218-0072)

Date: Jan. 8, 1988

SECTION I	
Product Name Panasonic Developer FO-Z103R-PG	Chemical Name & Synonyms Electrostatic Developer
Product Class Inert resinated dark red powder	Emergency Phone No. Matsushita Electric Industrial Co., Ltd. Japan 0286-63-3221

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

INGREDIENTS (CHEMICAL NAME)	CAS #	%	LISTED AS A HAZARDOUS		
			OSHA PEL	ACGIH TLV	ACGIH TLV
C.I. Pigment Red 48:3	15782-05-5	(1	NL	NL	NL
Mn-Ferrite	1309-38-2	} 55 ~ 60	NL	NL	NL
	1313-13-9		L	5.0mg/m ³	5.0mg/m ³
Iron Oxide	1309-37-1	1 ~ 6	NL	NL	NL
Titanium Oxide	13463-67-7	1 ~ 6	L	15.0mg/m ³	L
Resin	25767-47-9	} 37 ~ 42	NL	NL	NL
Resin	39382-25-7		NL	NL	NL
Additive	7631-86-9	(1	L	10.0mg/m ³	L

TLV of the Product: 10 mg/m³ (Total Dust) 5 mg/m³ (Respirable)
PEL of the Product: 15 mg/m³ (Total Dust) 5 mg/m³ (Respirable)

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	Not applicable.	Specific Gravity (d ₄ ²⁰)	2.5
Vapor Pressure (mm Hg.)	Not applicable.	Melting Point	Not applicable.
Vapor Density (AIR = 1)	Not applicable.	Evaporation Rate (Butyl Acetate = 1)	Not applicable.
Solubility in Water	Insoluble.		
Appearance and Odor	Fine dark red powder, practically odourless.		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Not applicable.	Flammable Limits	Not applicable.
Extinguishing Media	Water, CO ₂ , Foam, Dry Chemical.		
Special Fire Fighting Procedures	Not flammable or combustible but will burn if ignited. Extinguish with water, CO ₂ , foam, dry chemical.		
Unusual Fire and Explosion Hazards	None under normal storage and use conditions.		

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