

Toner FP1300

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

ORIENTINK TOKYO
Telex NO. 272-6563

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

January 8, 1988

Messers, Matsushita Electric Industrial Co., Ltd.

CERTIFICATE FP-1300

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 (PG-T10C-P) and DEVELOPER (PG-Z103-P) to be applied to PPC copier FP-1300/1310R, of Matsushita Electric Industrial Co., LTD. made.

	INGREDIENTS (CHEMICAL NAME)	CAS #	%
TONER (PG-T10C-P)	Carbon Black	1333-86-4	1 ~ 6
	Magnetite	1309-38-2	15 ~ 20
	Resin	25767-47-9	} 80 ~ 85
	Resin	9003-07-0	
	Additive	72869-85-3	0.5 ~ 5.5
	Additive	7631-86-9	< 1

	INGREDIENTS (CHEMICAL NAME)	CAS #	%
DEVELOPER (PG-Z103-P)	Carbon Black	1333-86-4	< 1
	Magnetite	1309-38-2	} 65 ~ 70
	Ferrite	1313-13-9	
	Resin	25767-47-9	} 30 ~ 35
	Resin	9003-07-0	
	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.

19

MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.

9-1, Hiraide Kogyo Danchi, Utsunomiya City, Tochigi Prefecture 321 JAPAN
Phone No. Japan 0286-63-3221. Fax No. Japan 0286-62-8393

Material Safety Data Sheet

FP-1300/1310R
DEVELOPER

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

SECTION I

Date : Jan. 8, 1988

Product Name Panasonic Developer PQ-Z103-P	Chemical Name & Synonyms Electrostatic Developer
Product Class Inert resinated black 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
Carbon Black	1333-86-4	(1	L	3.5 mg/m ³	L	3.5 mg/m ³
Magnetite	1309-38-2	} 65 ~ 70	NL	NL	NL	NL
Ferrite	1313-13-9		NL	NL	NL	NL
Resin	25767-47-9	} 30 ~ 35	NL	NL	NL	NL
Resin	9003-07-0		NL	NL	L	NL
Resin	39382-25-7		NL	NL	NL	NL
Additive	7631-86-9	(1	L	10 mg/m ³	L	10 mg/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 (U ₂₀ - D)	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 black 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 , form, dry chemical.		
Unusual Fire and Explosion Hazards	None under normal storage and use conditions.		

20

SECTION V - REACTIVITY DATA

Stability	Unstable	Conditions to Avoid	Abnormally high temperature.
	Stable		
Incompatibility (Materials to Avoid)			
None.			
Hazardous Decomposition or Byproducts			
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? <input checked="" type="checkbox"/>	Skin? <input checked="" type="checkbox"/>	Ingestion? <input checked="" type="checkbox"/>
Health Hazard (Acute and Chronic)			
Health hazard is minimal being neither irritating, corrosive, volatile, nor toxic. Mutagenicity is negative.			
Carcinogenicity			
NTP? <input type="checkbox"/> IARC Prototype? <input type="checkbox"/> OSHA Regulated? <input type="checkbox"/>			
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 Storage	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
	General (Overall)	None required under normal use.	Other
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.			

21

MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.

Office Equipment Division
9-1, Hiraide Kogyo Daichi, Utsunomiya City, Tochigi Pref., 321-JAPAN
Phone No. Japan 0286-63-3221. Fax No. Japan 0286-62-2393

Material Safety Data Sheet

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

PE-1300/1310R
TONER

Date: Jan. 8, 1988

SECTION I

Product Name	Panasonic Dry Toner PQ-T10C-P	Chemical Name & Synonyms	Electrostatic Toner
Product Class	Inert resinated black powder	Emergency Phone No.	Matsushita Electric Industrial Co., Ltd. Japan 0286-63-3221

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

HAZARDOUS COMPONENTS (INGREDIENTS CHEMICAL NAME)	CAS #	M ¹	LISTED AS A		HAZARDOUS	
			OSHA	OSHA PEL	ACGIH	ACGIH TLV
Carbon black	1333-86-4	1-6	L	3.5mg/m ³	L	3.5mg/m ³
Acetone	1309-37-2	15-20	NL	NL	NL	NL
BaBa	25767-17-4	20-25	NL	NL	NL	NL
BaBa	9003-07-0		NL	NL	NL	NL
Additive	72869-85-3	4.0-5.5	NL	NL	L	0.5mg/m ³
Additive	7631-85-9		L	20.0mg/m ³	L	10.0mg/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 (20/20)	1.3
Vapor Pressure (mm Hg.)	Not applicable.	Melting Point	177 °C
Vapor Density (AIR = 1)	Not applicable.	Evaporation Rate (Butyl Acetate = 1)	Not applicable.
Solubility in Water	Insoluble.		
Appearance and Odor	Fine black powder, practically odorless.		

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.		

22