

# MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.

Office Equipment Division

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## Material Safety Data Sheet

FP-2520/2625/1520

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

### SECTION I

Date : July 31, 1991

Product Name Panasonic Developer FQ-Z104	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

CHEMICAL NAME	COMMON NAME	CAS #	%	( L : listed, NL : not listed. ) LISTED AS A HAZARDOUS			
				OSHA	OSHA PEL	ACGIH	ACGIH TLV
Carbon black	Carbon black	1333-86-4	0.1 ~ 1.0	L	3.5 mg/m <sup>3</sup>	L	3.5 mg/m <sup>3</sup>
Magnetite	Magnetite	1309-38-2	1 ~ 5	NL	—	NL	—
Iron oxide	Iron oxide	1309-37-1	40 ~ 70	NL	—	NL	—
Manganese oxide	Manganese oxide	1313-13-9					
2-Propenoic acid, butyl ester, polymer with ethenylbenzene	Styrene-acrylic resin	25767-47-9	10 ~ 30	NL	—	NL	—
2-Butenedioic acid(E)-, polymer with α, α-(1-methylethylidene)di-4,1-phenylene]bis[ω-hydroxypoly[oxy(methyl-1,2-ethanedyl)]]	Polyester resin	39382-25-7					
1-Propene, homopolymer	Wax	9003-07-0					
Silica	Silica	7631-86-9	< 0.1	L	6 mg/m <sup>3</sup>	L	10 mg/m <sup>3</sup>

TLV of the Product: 10 mg/m<sup>3</sup> (Total Dust), 5 mg/m<sup>3</sup> (Respirable)  
 PEL of the Product: 15 mg/m<sup>3</sup> (Total Dust), 5 mg/m<sup>3</sup> (Respirable)

Section 313 Supplier Notification: This product contains the following toxic chemicals subject to the reporting requirement of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.  
 CAS# 1313-13-9 : (≈6.6 % as MnO<sub>2</sub>)

### SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	Not applicable.	Specific Gravity (H <sub>2</sub> O = 1)	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	LEL	UEL
		Not applicable.		
Extinguishing Media	Water, CO <sub>2</sub> , Foam, Dry Chemical.			
Special Fire Fighting Procedures	Not flammable or combustible but will burn if ignited. Extinguish with water, CO <sub>2</sub> , form, dry chemical.			
Unusual Fire and Explosion Hazards	None under normal storage and use conditions.			

## SECTION V - REACTIVITY DATA

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Stability	Unstable		Condition 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		Condition to Avoid Abnormally high temperature.
	Will Not Occur	↓	

## SECTION VI - HEALTH HAZARD DATA

Route(s) of Entry :	Inhalation ? YES	Skin ? YES	Ingestion ? YES
Health Hazard (Acute and Chronic) Health hazard is minimal being neither irritating, corrosive, volatile, nor toxic. Mutagenicity is negative.			
Carcinogenicity :	NTP ?	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.			
Medical 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. Never give fluids or induce vomiting if the victim is unconscious or having convulsion. Get medical attention.		
	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.
	Mechanical (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/Hygienic Practices	Minimize breathing dust.			

These data described solely the safety requirements for the product and are based on the present state of our knowledge. They provide no guarantee of the product described within the meaning of the legal guarantee regulations.