

Material Safety Data Sheet
 May be used to comply with
 OSHA's Hazard Communication Standard,
 29 CFR 1910.1200. Standard must be
 consulted for specific requirements.

U.S. Department of Labor
 Occupational Safety and Health Administration
 (Non-Mandatory Form)
 Form Approved
 OMB No. 1218-0072

IDENTITY (As Used on Label and List) D-58P Developer for copier BD-5110/7610/7720/8411 and BD-8412

Section I

Manufacturer's Name Toshiba Coporation Yanagicho Works	Emergency Telephone Number (714) 583-3000
	Telephone Number for Information Same
Address (Number, Street, City, State and ZIP Code) 70, Yanagi-cho, Saiwai-ku, Kawasaki-shi, 210 Japan	Data Prepared June 14, 1988
	Signature of Preparer (optional) H. Kikuno

Section II - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Names)	OSHA PEL	ACGIH TLV	Other Limits Recommended	%
Toner				
Styren-acrylate copolymer	n.a.	n.a.	None	96.5
Polypropylene	n.a.	n.a.	None	
Carbon black	3.5mg/m ³	3.5mg/m ³	None	
Inorganic pigment	n.a.	n.a.	None	
Organic pigment	n.a.	n.a.	None	
Additives	n.a.	n.a.	None	
Carrier (Ferrite)				
Iron oxide (Fe ₂ O ₃)	10mg/m ³ as Fume	5 mg/m ³ as Fume	None	96.5
Copper oxide (CuO)	n.a.	n.a.	None	
Zinc oxide (ZnO)	5mg/m ³ as Fume	5mg/m ³ as Fume	None	
Manganese (Mn)	5mg/m ³	1mg/m ³ as Fume	None	

Section III - Physical/Chemical Characteristics

Boiling Point	n.a.	Specific Gravity (H ₂ O = 1)	5.8~6.8
Vapor Pressure (mm Hg)	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	Fine black powder, practically odorless		

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)	n.a.	Flammable Limits	LEL n.a.	UEL n.a.
Extinguishing Media	CO ₂ , dry chemical, foam or water.			
Special Fire Fighting Procedures	This material will burn in the case of fire. The decomposition products are CO, CO ₂ and NOx.			
Unusual Fire and Explosion Hazards	This material has no unusual fire or explosion hazards.			

Section V - Reactivity Data

Stability	Unstable		Conditions to avoid
	Stable	X	
Incompatibility (materials to Avoid)			None
Hazardous Decomposition or Byproducts			CO, CO ₂ and NOx
Hazardous Polymerization	May Occur		Conditions to Avoid
	Will not occur	X	

Section VI - Health Hazard Data

Route(s) of Entry : Inhalation ? Yes Skin ? No Ingestion ?
Possible but very unusual.

Health Hazards (Acute and Chronic)

LDLo value of this toner in an oral acute toxicity test is over 5.0g/Kg.

Carcinogenicity : NTP ? IARC Monographs ? OSHA Regulated ?
No No No

Signs and Symptoms of Exposure

Minimum irritation to respiratory tract may occur as with exposure to any non-toxic dust.

Medical Conditions

General Aggravated by Exposure Accumulation of dust in the respiratory system.

Emergency and First Aid Procedures

Ingestion: Rinse mouth with water. Call a physician.
Inhalation: Remove to fresh air if effects occur, consult local medical personnel.
Eyes: In case of contact, immediately flush eyes with water for 5 minutes.

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material Is Released or Spilled

Sweep up or clean up with a vacuum cleaner.

Waste Disposal Method

Waste material may be dumped or incinerated under conditions which meet all federal, state and local environmental regulations.

Precautions to Be Taken in Handling and Storing

No special storage requirements for safety reason.

Other Precautions

None

Section VIII - Control Measures

Respiratory Protection (Specify Type) None required under normal use.

Ventilation	Local Exhaust	No	Special	No
	Mechanical (General)	No	Other	No

Protective Gloves None required under normal use. Eye Protection None required under normal use.

Other Protective Clothing or Equipment None required under normal use.

Work/Hygienic Practices Inhalation should be avoided.