

## MATERIAL SAFETY DATA SHEET

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Date of Preparation: 12/93  
Date of revision:

SECTION 1 IDENTIFICATION

TRADE NAME: MP Cartridge 40 Black for FP300 Printer.  
PRODUCT DESCRIPTION: An assembly composed of a photosensitive drum, toner powder, developer unit, charger-roller and cleaner blade.  
ITEM NO: M95-0471  
NFPA HMIS RATINGS: Health: 0, Flammability: 1, Reactivity: 0

SECTION 2 INGREDIENTS

<u>Principal Component(s)</u>	(TONER) <u>CAS No.</u>	<u>WT. %</u>	<u>OSHA (PEL) ACGIH (TLV)</u>
Styrene Acrylate Copolymer	-----	45-55	N/A
Iron Oxide	1317-61-9	45-55	N/A

Manufacturer contact states all other information is proprietary.

N/A = Not Applicable

Concerning carcinogenicity, the ingredients listed above are not listed on the latest NTP Annual Report, IARC Monographs and OSHA regulation.

SECTION 3 PHYSICAL DATA

BOILING POINT (C): N/A  
MELTING POINT: 100 - 150 C  
VAPOR PRESSURE (mmHg.): N/A  
VAPOR DENSITY (AIR=1): N/A  
SOLUBILITY IN WATER: Negligible  
SOLUBILITY IN ORGANIC SOLVENTS: Partially soluble in toluene & xylene  
SPECIFIC GRAVITY (WATER=1): 1.4 - 1.6  
PERCENT VOLATILE BY VOLUME: N/A  
EVAPORATION RATE (BUTYL ACETATE=1): N/A  
PH IN CONCENTRATE: N/A  
PH IN DILUTION AS USED: N/A  
APPEARANCE AND ODOR: Black fine powder, slight plastic odor.

## SECTION 4 FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: N/A  
IGNITION TEMPERATURE: N/A  
FLAMMABILITY: Non-flammable solid (According to test method 16 CFR 1500.44).  
FLAMMABLE LIMITS: N/A  
EXTINGUISHING MEDIA: Water, Dry Chemical, Carbon Dioxide  
SPECIAL FIRE FIGHTING PROCEDURES: None  
UNUSUAL FIRE AND EXPLOSION HAZARDS: This material, like most organic material in powder form, is capable of creating a dust explosion.

## SECTION 5 HEALTH HAZARD DATA

\*\* Toner powder is not accessible, unless the cartridge is forced, or broken into.

A. EXPOSURE LIMITS: See Section 2  
OSHA (TWA/PEL) = 15mg/m<sup>3</sup> (Total Dust)  
5mg/m<sup>3</sup> (Respirable Fraction)  
ACGIH (TWA/TLV) = 10mg/m<sup>3</sup> (Total Dust)

### B. EFFECTS OF OVEREXPOSURE:

INGESTION: Not an applicable route of entry under ordinary use.  
INHALATION: Minimal respiratory tract irritation may occur as with exposure to large amounts of non-toxic dust.  
EYE CONTACT: No specific hazard known to Canon. However, any material contact the eye may be irritating.  
SKIN CONTACT: Low hazard for industrial handling. Overexposure unlikely to cause skin irritation.

No data available for chronic effects of overexposure.

### C. TOXICITY DATA:

ACUTE TOXICITY:  
INGESTION: LD50 >5,000mg/kg (rat). No adverse effects are expected.  
INHALATION: No Data Available.  
EYE CONTACT: Not classified as an irritant according to OSHA HCS.  
SKIN CONTACT: Not classified as an irritant according to OSHA HCS.

CHRONIC TOXICITY: No Data Available.

Mutagenicity: Negative (Test species S.Typhimurium)

## SECTION 6 EMERGENCY FIRST AID

Inhalation: Remove from exposure.  
Eye: In case of eye contact, flush eye with plenty of water for at least 15 minutes. If irritation persists contact a physician.  
Skin: Wash with soap and water.  
Ingestion: Dilute stomach contents with several glasses of water.

## SECTION 7 REACTIVITY DATA

STABILITY: Stable  
INCOMPATIBILITY: Strong oxidizers  
HAZARDOUS DECOMPOSITION PRODUCTS: As with any other organic material, combustion will produce Carbon Dioxide and probably Carbon Monoxide.  
HAZARDOUS POLYMERIZATION: Will not occur.

## SECTION 8 SPILL, LEAK AND DISPOSAL PROCEDURES

SPILLS & LEAKS: No toner spillage occurs in normal operation or handling. If it should occur, avoid inhalation of dust Sweep material onto paper and collect it.  
DISPOSAL METHOD: No special disposal technique required. Ensure compliance with federal, state and/or local regulations. Cartridge and toner may be considered plastic waste.

## SECTION 9 SPECIAL PROTECTION INFORMATION

VENTILATION: Good general ventilation should be sufficient  
PROTECTION GLOVES: None required  
EYE PROTECTION: None required  
RESPIRATORY: None required.  
OTHER PROTECTIVE EQUIPMENT: None.

## SECTION 10 SPECIAL PRECAUTIONS

### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Keep out of reach of children.

Keep from contact with oxidizing materials.

## SECTION 11 REGULATORY INFORMATION

CHEMICALS REQUIRED TO BE REPORTED UNDER SARA TITLE III, CERCLA:--None--

### DEPARTMENT OF TRANSPORTATION

Proper Shipping Name: N/A  
Hazard Class: N/A  
UN ID No.: N/A

ALL COMPONENTS ARE REGISTERED IN ACCORDANCE WITH TSCA.

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This information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process.

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