

# SUPPLYline

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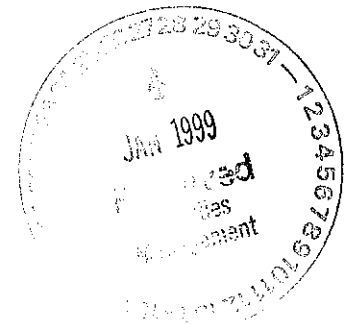
1/26/99

For P. Kavanaugh,

Thank you for your recent order of an FX-3 cartridge. On the P.O. form it stated the enclosed information was required.

If I can be of further assistance, do call me at 437-6099, extension 231.

Sincerely,  
Signe McGowan





POK03694

MSDS#: FAX-0022-001

**MATERIAL SAFETY DATA SHEET**

Canon U.S.A., Inc.  
One Canon Plaza  
Lake Success, NY 11042  
Telephone: 516-328-5600

24 hr. Emergency Contact  
CHEMTREC: 800-424-9300

Date of preparation: 12/95  
Date of revision: 11/97

**SECTION 1.1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

Product Name: FX-3 Toner Cartridge Black for the FAXL4000

ITEM Nos: H11-6381-220

**1.2 COMPANY/UNDERTAKING IDENTIFICATION**

Manufacturer: Canon Inc., Tokyo Japan  
30-2, Shimomaruko 3-Chome, Ohta-Ku  
Tokyo, Japan  
Phone: 03-3758-2111

Supplier: Canon USA, Inc.  
One Canon Plaza  
Lake Success, NY 11042  
Phone (516) 328-5600

**SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS**

Weight %	(CAS Registry No.)	Component(s)
45 - 55	-----	Styrene Acrylate Copolymer
45 - 55	1317-61-9	Iron Oxide

Manufacturer contact states all other information is proprietary.

An assembly for facsimile, composed of a photosensitive drum, toner powder, developer unit, charger-roller and cleaner blade.

**\*\* The Toner Powder Cannot Be Removed, And Is Not Accessible, Unless The Cartridge Is Tapered With Or Forcibly Broken. \*\***

**SECTION 3. HAZARDS IDENTIFICATION \*\*\* EMERGENCY OVERVIEW \*\*\***

Toner Low Hazard For Recommended Handling.

NFPA RATING: Health = 0, Flammability = 1, Reactivity = 0  
HMIS RATING: Health = 1, Flammability = 0, Reactivity = 0

Note: HMIS and NFPA ratings involve data and interpretations that may vary from company to company. They are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all the information contained in this MSDS must be considered.

**SECTION 4. FIRST-AID MEASURES**

Inhalation: If symptomatic, move to fresh air. Get medical attention if symptoms persist.  
Eyes: Any material that contacts the eye should be washed out immediately with water. Get medical attention if symptoms occur.  
Skin: Wash with soap and water. Get medical attention if symptoms occur.  
Ingestion: Drink 1-2 glasses of water. No adverse effects expected.  
Oral LD50: >5000mg/kg (Rats).



**SECTION 5. FIRE FIGHTING MEASURES**

Flash Point(Method Used):  
Ignition Temperature:  
Flammability:  
  
Flammable Limits:  
Extinguishing Media:  
  
Special Fire Fighting Procedures:  
Hazardous Combustion Products:  
Unusual Fire and Explosion Hazards:

N/A  
N/A  
Non-flammable solid (According to test method of 16 CFR 1500.44).  
N/A  
Water spray, carbon dioxide (CO2), dry chemical.  
None  
Carbon dioxide, carbon monoxide.  
Toner material, like most organic material in powdered form, is capable of creating a dust explosion

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

Sweep Material Onto Paper And Place In A Fiber Carton.

**SECTION 7. HANDLING AND STORAGE**  
**Personal Precautionary Measures:**

Avoid breathing dust. Use with adequate ventilation. Wash thoroughly after handling.

**Prevention of Fire and Explosion:**

Keep from contact with oxidizing materials. Minimize dust generation and accumulation. Refer to Pamphlet No. 654, "Prevention of Fire and Dust Explosions in the Chemical, Dye, Pharmaceutical and Plastics Industries." Use adequate ventilation. Keep container closed.

**Storage:**

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Exposure Limits:**

OSHA (TWA/PEL): 15mg/m3 (Total Dust)  
5mg/m3 (Respirable Fraction)

ACGIH (TWA/TLV): 10mg/m3 (Total Dust)  
3mg/m3 (Respirable particulate)

**Ventilation:**

Good ventilation (typically 4-6 room volumes per hour) should be used. Ventilation rates should be matched to conditions.

**Personal Protection:**

Good industrial hygiene practice should be followed which includes preventing eye contact, minimizing skin contact, inhalation.

**Respiratory Protection:**

None required when used in intended fashion.

**Eye Protection:**

It is good industrial hygiene practice to minimize eye contact.

**Skin Protection:**

For operations where prolonged or repeated skin contact may occur, impervious gloves should be worn.

**Recommended Decontamination**

Facilities: Washing facilities

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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical Form:	Solid Powder
Color:	Black
Odor:	Slight plastic odor
Specific Gravity: (Water=1):	1.4 - 1.8
Vapor Pressure:	N/A
Vapor Density (Air=1):	N/A
Evaporation Rate (n-Butyl Acetate=1):	N/A
Volatile Fraction by Weight:	N/A
Melting Point:	100 - 150 Degrees Centigrade
Solubility in Water:	Negligible
Solubility in Organic Solvents:	Partially soluble in toluene & xylene.
pH:	N/A

**SECTION 10. STABILITY AND REACTIVITY**

Stability:	Stable
Incompatibility:	Strong oxidizing agents.
Hazardous Polymerization:	Will not occur.

**SECTION 11. TOXICOLOGICAL INFORMATION**

**EFFECTS OF OVEREXPOSURE:**

Health Hazards of Long-Term Exposure (Chronic): Based upon available data, human exposure to toner has been shown to cause minimal respiratory tract irritation as may occur with large amounts of any nontoxic dusts. The results of one animal study where rats inhaled toner that was ten times more respirable than commercially available toner were observed to have no lung changes at low exposures (the most relevant level to potential human exposures). At higher levels a slight degree of lung fibrosis was observed due to excessive amounts of dust retained in the lungs for a prolonged interval.

INHALATION:	Expected to be a low hazard for recommended handling.
EYE:	No specific hazards known. May cause transient irritation.
SKIN:	Expected to be low hazard for recommended handling.
INGESTION:	Expected to be low ingestion hazard.

Genotoxicity Data: N/A

MUTAGENICITY: Salmonella Typhimurium assay (Ames test): Negative

**SECTION 12. ECOLOGICAL INFORMATION**

This material has not been tested for environmental effects. In a spill situation this material may be visually unpleasant; However, it is not expected to cause any adverse environmental effects.

**SECTION 13. DISPOSAL CONSIDERATIONS**

Incinerate or landfill. Can be incinerated when in compliance with local regulations. Discharge, treatment, or disposal may be subject to national, state, or local laws. Cartridge may be disposed of as plastic waste. Canon Inc. recommends recycling of exhausted cartridge. See "Canon Clean Earth Campaign."

**SECTION 14. TRANSPORTATION INFORMATION**

SHIPPING NAME:	Not Regulated
HAZARD CLASS:	N/A
UN No.:	N/A

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**SECTION 15. REGULATORY INFORMATION**

- Material(s) known to the State of California to cause cancer: None
- Material(s) known to the State of California to cause adverse reproductive effects: None
- Carcinogenicity Classification (components present at 0.1% or more): None
- International Agency for Research on Cancer (IARC): None
- American Conference of Governmental Industrial Hygienists (ACGIH): None
- National Toxicology Program (NTP): None
- Occupational Safety and Health Administration (OSHA): None
- Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372: None
- TSCA STATUS: All chemical ingredients found on TSCA Inventory.
- RCRA STATUS: If discarded in its purchased form, this product would not be a hazardous waste either by listing or characteristic. However, under RCRA, it is the responsibility of the end-user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as hazardous waste.  
40 CFR 261.20-24

**SECTION 16. OTHER INFORMATION**

U.S./Canada Label Statements: **LOW HAZARD FOR RECOMMENDED HANDLING**  
Minimize dust generation and accumulation. Use with adequate ventilation.  
**IN CASE OF FIRE:** Use Water spray, carbon dioxide (CO2), or dry chemical.  
**IN CASE OF SPILL:** Sweep or scoop up and remove. Flush residual spill area with water.

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The information contained herein is furnished without warranty of any kind. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers and the protection of the environment.

PREPARED BY: Quality Management Department  
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