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**MATERIAL SAFETY DATA SHEET**

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DATE PREPARED: 31<sup>st</sup> July 1999

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**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING****1.1 Identification of the Substance or Preparation**

Product Name: FX6 Cartridge  
Description: Cartridge for Fax L1000

**1.2 Company Undertaking Identification**

Manufacturer: Canon Inc.  
30-2, Shimomaruko  
30 Chome, Ohta-Ku, Tokyo, 146-8501  
Japan  
Phone: 03-3758-2111

Distributor: Canon (UK) Limited  
Woodhatch Lodge, Cockshutt Hill, Reigate, Surrey, RH2 8BF  
Telephone: (01737) 220000

**SECTION 2: COMPOSITION/INFORMATION OF INGREDIENTS**

Principal Components	Wt%	CAS #	EU Symbol	EU R-Phrase	DFG MAK
Styrene acrylate copolymer	40-50	-	-	-	-
Iron Oxide	40-50	1317-61-9	-	-	-

*All MSDS sheets have been updated to appear in the current 16 paragraph format (previously nine), information requested for the new format which isn't available from the previous format will have No Data Available against it. (As advised by Sedgwick Risk Consultants. Memo dated 28/02/97).*

**SECTION 3. HAZARDOUS IDENTIFICATION**

EMERGENCY OVERVIEW: Black fine powder, slight plastic odour.

POTENTIAL HEALTH EFFECTS AND SYMPTOMS:

INGESTION: Low acute toxicity. Ingestion is a minor of entry for intended use of this product.

INHALATION: Exposure to excessive amounts of dust may cause physical irritation to respiratory.

EYE CONTACT: May cause eye irritation.

SKIN CONTACT: Unlikely to cause skin irritation.

Chronic Effects: Prolonged inhalation of excessive amounts of dust may cause lung damage. Use of this product as intended does not result in inhalation to excessive amounts of dust.

Medical Conditions Generally known to be Aggravated by Exposure: Not determined.

**SECTION 4. FIRST AID MEASURES**

FIRST AID MEASURES:

INHALATION: If symptoms are experienced, move victim to fresh air and obtain medical advice.

INGESTION: Give one or two glasses of water. If irritation or discomfort occurs, obtain medical advice immediately.

EYE CONTACT: Do not allow victim to rub eye(s). Flush with lukewarm, gently flowing water for 5 minutes or until particle is removed. If irritation persists, obtain medical attention.

SKIN CONTACT: Wash with water and soap or mild detergent. If irritation persist, get medical attention.

Note to Physicians: None.

**SECTION 5. FIRE FIGHTING MEASURES**

FIRE FIGHTING MEASURES:

EXTINGUISHING MEDIA: CO<sub>2</sub>, water or dry chemicals

UNSUITABLE EXTINGUISHING MEDIA: None.

SPECIAL FIRE FIGHTING PROCEDURE: None.

UNUSUAL FIRE AND EXPLOSIVE HAZARDS:	Can form explosive dust-air mixtures when finely dispersed in air.
FIRE AND EXPLOSIVE PROPERTIES:	
FLASH POINT(°C):	Not applicable.
FLAMMABLE (EXPLOSIVE) LIMITS:	Not applicable.
AUTO-IGNITION TEMPERATURE (°C):	No data available.
FLAMMABILITY:	Not-flammable (Test Method: Directive 92/69/EEC, A10 Flammability (solids).
AUTO-FLAMMABILITY:	Not applicable.
EXPLOSIVE PROPERTIES:	Unusual Fire and Explosion Hazards.
OXIDISING PROPERTIES:	Not data available.
HAZARDOUS COMBUSTION PRODUCTS:	CO <sub>2</sub> and CO
OTHER PROPERTIES:	Not Known.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:	Avoid breathing dust.
ENVIRONMENTAL PRECAUTIONS:	Do not wash away into sewer.
METHOD FOR CLEANING UP:	Sweep slowly spilled toner on to paper and carefully transfer into a waste container. Clean remainder with wet paper, wet cloth or a vacuum cleaner. If a vacuum cleaner is used, it must rate as a dust explosion-proof type. Fine powder can form explosion-proof type. Fine powder can form explosive dust-air mixtures.

## SECTION 7. HANDLING AND STORAGE

HANDLING:	Avoid contact with skin, eyes and clothing. When contact, wash out immediately.
STORAGE:	Keep out of the reach of children. Store in cool and dry place.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE GUIDELINES:	USA OSHA (TWA/PEL): 15mg/m <sup>3</sup> (Total dust) 5mg/m <sup>3</sup> (Respirable fraction) ACGIH TLV: 10mg/m <sup>3</sup> (Inhalable fraction) 3mg/m <sup>3</sup> (Respirable particulate) DFG(MAK): 4mg/m <sup>3</sup> 1.5 mg/m <sup>3</sup> (Respirable fraction) (Also refer to Section 2)
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ENGINEERING CONTROLS:	Use adequate ventilation
PERSONAL PROTECTION EQUIPMENT(S):	
RESPIRATORY PROTECTION:	Not Required.
EYE/FACE PROTECTION:	Not Required.
SKIN PROTECTION:	Not Required.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Black fine powder.
ODOUR:	Slight plastic odour.
PH:	Not applicable
BOILING POINT/RANGE (°C):	Not applicable
MELTING POINT/RANGE (°C):	100-150 (softening point)
DECOMPOSITION TEMPERATURE (°C):	No data available.
FLASH POINT (°C):	Not applicable
FLAMMABLE (EXPLOSIVE) LIMITS:	Not applicable
AUTOIGNITION TEMPERATURE (°C):	Not data available.
FLAMMABILITY:	Not-flammable (Test method: Directive 92/69/EEC, A10 Flammability (Solids).
AUTOFLAMMABILITY:	Not applicable
EXPLOSIVE PROPERTIES:	Unusual fire and explosion hazards
OXIDISING PROPERTIES:	No data available
VAPOUR PRESSURE:	Not applicable
VAPOUR DENSITY (Air=1):	Not applicable
DENSITY/SPECIFIC GRAVITY:	1.4-1.8
WATER SOLUBILITY:	Negligible
FAT SOLUBILITY:	Partially soluble in toluene and xylene.
PARTITION COEFFICIENT (N-OCTANOL/WATER):	Not applicable
PERCENT VOLATILE:	Negligible
EVAPORATION RATE:	Not applicable

## SECTION 10. STABILITY AND REACTIVITY

STABILITY:	Stable.
CONDITIONS TO AVOID:	None.
MATERIALS TO AVOID:	Strong oxidisers
HAZARDOUS DECOMPOSITION PRODUCTS:	CO and CO <sub>2</sub> .
HAZARDOUS POLYMERISATION:	Will not occur.
CONDITIONS TO AVOID:	None.

## SECTION 11. TOXICOLOGICAL INFORMATION

<b>ACUTE TOXICITY:</b>	
INHALATION:	Estimate: Rat, LC50:>5mg/L/4hr
INGESTION:	Estimate: Rat, LD50:>200mg/kg

EYE CONTACT:	Estimate: Not classified as irritant, according to OSHA Hazard Communication Standard (HCS) and EU Directive 67/548/EEC based on test data of rabbits.
SKIN CONTACT:	Estimate: Not classified as irritant, according to OSHA Hazard Communication Standard (HCS) and EU Directive 67/548/EEC based on test data of rabbits.
SENSITISATION:	Not data available.
MUTAGENICITY:	Ames test: Negative (test strains: S. typhimurium).
REPRODUCTIVE TOXICITY:	No data available.
CARCINOGENICITY:	No data available.
OTHERS:	Sub-acute Toxicity: - Rats, 90 days inhalation test Test sample: magnetic toner (mean volume diameter is 6.0 µm) NOEL: (No observed effect level): 16mg/m <sup>3</sup>

**SECTION 12. ECOLOGICAL INFORMATION**

No data available.

**SECTION 13. DISPOSAL CONSIDERATIONS**

METHOD OF DISPOSAL:	DO NOT put toner on toner container into fire, headed toner may cause severe burns. DO NOT shred a cartridge, unless dust-explosion preventing measures are taken. Finely dispersed particles from explosive mixtures in air. Disposal should be subject to federal, state or local laws.
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**SECTION 14. TRANSPORT INFORMATION**

UN#:	2807
UN SHIPPING NAME:	Magnetised material
UN CLASSIFICATION:	9
UN PACKING GROUP:	None.
SPECIAL PRECAUTION:	10 or more of these products shipped together by air is regulated as magnetised material.

**SECTION 15. REGULATORY INFORMATION****EU INFORMATION**

## INFORMATION ON THE LABEL:

SYMBOL AND INDICATION:	Not required.
RISK PHRASE:	Not required.
S-PHRASE:	Not required.
DANGEROUS INGREDIENTS:	None.

**Specific provisions in relation to protection of man or the environment.**

76/769/EEC:	Not regulated.
(EC)3093/94:	Not regulated.
(EEC) 2455/92:	Not regulated.
OTHERS:	None.

**USA Information:****Information on the Label:**

Signal Word:	None.
Hazard warning:	None.
Safety Advice:	None.
Hazardous Component(s):	None

## SARA Title III §313:

Chemical Name	Weight %
None	

## California Proposition 65:

Chemical Name	Weight %
None	

**SECTION 16. OTHER INFORMATION****Literature Reference:**

- U.S. Department of Labour, 29CFR Part 1910
- U.S. Environmental Protection Agency, 40CFR Part 372
- U.S. Consumer Product Safety Commission, 16CFR Part 1500
- ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices
- U.S. Department of Health and Human Services National Toxicology Program, Annual Report on Carcinogens
- World Health Organisation International Agency for Research on Cancer, IARC Monographs on the Evaluation on the Carcinogenic Risk of Chemicals to Humans
- DFG, List of MAK and BAT Values
- EU Directive 76/769/EEC, 67/548/EEC, 88/379/EEC and their amendments.
- EU Regulation (EC) 3093/94, (EEC)2455/92 and their amendments.

**Other Information:**

None

**ABBREVIATIONS:**

"EU" stands for European Union.

'OSHA PEL' stands for PEL (Permissible Exposure Limit) under Occupational Safety and Health Administration.

"ACGIH TLV" stands for TLV (Threshold Limit Value) under American Conference of Governmental Industrial Hygienists.

"IARC" stands for International Agency for Research on Cancer.

"NTP" stands for National Toxicology Program (USA).

'EU ILV' stands for Indicative Limit Values for Occupational Exposure under EU Directive 91/322/EEC.

"DFG MAK" stands for MAK (Maximale Arbeitsplatzkonzentrationen) under Deutsche Forschungsgemeinschaft

'TWA' stands for Time Weighted Average.

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