

## 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: 11/87  
Date of revision: 5/93

### SECTION 1 PRODUCT IDENTIFICATION

TRADE NAME: EP-Cartridge Brown  
PRODUCT DESCRIPTION: EP cartridge assembly for LBP-CX is composed of photosensitive drum, toner, developer unit, charge-roller and cleaner blade.  
ITEM NO: R34-0003, R34-0004  
NFPA HMIS RATINGS: Health: 0, Flammability: 1, Reactivity: 1

### SECTION 2 INGREDIENTS (TONER)

Principal Component(s)	CAS No.	WT. %	OSHA (PEL)	ACGIH (TLV)
Styrene Acrylate Copolymer	-----	55-65	N/A	N/A
Iron Oxide	1309-37-1	30-40	N/A	N/A
Salicylic Acid Chromium (III) Chelate	72869-85-3	1-3	0.5mg(Cr)/m3	0.5mg(Cr)/m3

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 regulations.

### SECTION 3 PHYSICAL DATA

APPEARANCE AND ODOR:	Fine powder, slight plastic odor.
BOILING POINT (C):	N/A
MELTING POINT:	100 - 150 C
VAPOR PRESSURE (mmHg.):	Negligible.
VAPOR DENSITY (AIR=1):	N/A
SOLUBILITY IN WATER:	Negligible.
SPECIFIC GRAVITY (WATER=1):	1.4 - 1.6
PERCENT VOLATILE BY VOLUME:	Negligible
EVAPORATION RATE (BUTYL ACETATE=1)	Negligible.
PH IN CONCENTRATE:	Cannot be determined.
PH IN DILUTION AS USED:	Cannot be determined.

## SECTION 4 FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: N/A--(Some ingredients begin melting at 100 degrees Centigrade or higher.)  
EXTINGUISHING MEDIA: Water, Dry Chemical, Carbon Dioxide.  
IGNITION TEMPERATURE: N/A  
FLAMMABILITY: Non-flammable solid (According to test method 16 CFR 1500.44).  
FLAMMABLE LIMITS: N/A  
SPECIAL FIRE FIGHTING PROCEDURES: None  
UNUSUAL FIRE AND EXPLOSION HAZARDS: This material, like most organic materials in powder form, is capable of creating a dust explosion.

## SECTION 5 HEALTH HAZARD DATA

- A. EXPOSURE LIMITS: See Section 2.  
Chromium (III) compounds as chromium = 0.5/m3 (OSHA TWA)  
Toner powder is not accessible, unless the cartridge is forced, or broken into.
- B. EFFECTS OF OVEREXPOSURE: Minimal respiratory tract irritation may occur with exposure to large amounts of any non-toxic dust.  
There are no known health hazards, mutagenicity, carcinogenicity or teratogenicity.

### C. TOXICITY DATA:

<u>Test</u>	<u>Species</u>	<u>Result</u>
Mutagenicity	S. Typhimurium	Negative

## SECTION 6 EMERGENCY FIRST AID PROCEDURES

Inhalation: Remove from exposure to fresh air.  
Eye Contact: Open eye and flush with plenty of water. If irritation persists, get medical attention.  
Skin: Wash with soap and water.  
Ingestion: Drink several glasses of water. Call a physician.

## SECTION 7 REACTIVITY DATA

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

## SECTION 8 SPILL, LEAK AND DISPOSAL PROCEDURES

\*\*No toner spillage occurs in normal operation, should this occur:

SPILLS & LEAKS: Sweep material onto paper and place in fibre carton.  
DISPOSAL METHOD: No special disposal technique required. Ensure compliance with federal, state and/or local regulations. Cartridge is composed of plastic and metals.

## SECTION 9 SPECIAL PROTECTION INFORMATION

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

## SECTION 10 SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Keep Out Of The Reach of Children.

Keep from contact with oxidizing materials.

## SECTION 11 REGULATORY INFORMATION

CHEMICALS REQUIRED TO BE REPORTED UNDER SARA TITLE III, CERCLA:  
Chromium(III) and compounds: 2.0 Wt% (Maximum)  
{As chromium metal: 0.5 Wt% (Maximum)}

## DEPARTMENT OF TRANSPORTATION

Proper Shipping Name: Magnetized Material (13 or more Cartridges)  
Hazard Class: 9  
UN ID No.: UN 2807

ALL COMPONENTS ARE REGISTERED IN ACCORDANCE WITH TSCA.

---

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.

PREPARED BY: Joseph Palmeri  
TITLE: Regulatory Compliance Specialist  
TELEPHONE No.: (516) 328-5600