

SECTION 1 - IDENTIFICATION

PRODUCT NAME: Toner Cartridge (Black)

DESCRIPTION: An assembly for LBP-8X, EP, composed of photosensitive drum, black toner powder and a cleaner blade. Unless the toner cartridge is broken, the toner powder cannot be removed.

SECTION 2 - INGREDIENTS OF TONER

Principal Components	wt%	OSHA	ACGIH
Styrene acrylate copolymer	55-65		
Iron oxide (1317-61-9)	30-40		
Salicylic acid chromium	1-3	0.5mg (Cr)/m ³ (TWA)	0.5mg (Cr)/m ³ (TWA)

Concerning carcinogenicity, each ingredient is not listed on the latest NTP Annual Report on carcinogens, IARC Monograph or OSHA listing.

SECTION 3 - PHYSICAL DATA

BOILING POINT (degrees C):	Not available for solid mixtures.
MELTING POINT (degrees C):	100-150
VAPOR PRESSURE (mmHg):	Negligible
VAPOR DENSITY (AIR-1):	Not Applicable
SOLUBILITY IN WATER:	Negligible

SOLUBILITY IN ORGANIC SOLVENTS:
SPECIFIC GRAVITY (water=1):
PERCENT VOLATILE BY VOLUME (%):
PH IN CONCENTRATE:
PH IN DILUTION AS USED:
APPEARANCE AND ODOR:

Toluene, xylene, etc.
1.4 -1.5
Negligible
Cannot be determined.
Cannot be determined.
See the SECTION 1 - DESCRIPTION.
Toner is fine powder, with slight
plastic odor.

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used) :

Not Applicable
(Some ingredients start melting at

105

degrees celsius or higher)

IGNITION TEMPERATURE:

Not Applicable

FLAMMABLE LIMITS:

Combustible

EXTINGUISHING MEDIA:

Carbon Dioxide, water, dry chemicals.

SPECIAL FIRE FIGHTING PROCEDURES:

None

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Toner material, like most organic
material in powder form, is capable
of creating a dust explosion.

SECTION 5 - HEALTH HAZARD DATA OF TONER

Toner powder is not accessible, unless the cartridge is broken.

EXPOSURE LIMITS:

SEE SECTION 2.

EFFECTS OF OVEREXPOSURE:

Inhalation

Gasping. Do not breathe the dust.

Eye contact

No specific hazard is known to Canon. However, any
material that contacts the eye may be irritating.

Skin

Low hazard for industrial handling. There is no data
available for chronic effects of overexposure.

EMERGENCY AND FIRST AID PROCEDURES: In Case of eye contact, flush with plenty
of water.

TOXICITY DATA: Negative mutagenicity (Test species : S. typhimurium)

SECTION 6 - 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 7 - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Toner spillage does not occur in normal operation or handling. If it should
occur, avoid inhalation of the dust. Sweep material onto paper and place in

VAPOR PRESSURE (mmHg.):	na
VAPOR DENSITY (AIR=1):	na
SOLUBILITY IN WATER:	unsoluble (toner)
SOLUBILITY IN ORGANIC SOLVENTS:	Toluene, acetone, ect. (toner)
SPECIFIC GRAVITY (H2O=1):	1.4 (toner)
PERCENT VOLATILE BY VOLUME:	na
EVAPORATION RATE	na
PH IN CONCENTRATE:	cannot be determined
PH IN DILUTION AS USED:	cannot be determined
APPEARANCE AND ODOR:	See the SECTION 1 - DESCRIPTION. No odor

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used):	na
IGNITION TEMPERATURE:	na
FLAMMABLE LIMITS:	combustible (toner)
EXTINGUISHING MEDIA:	Co2, water, etc.
SPECIAL FIRE FIGHTING PROCEDURES:	None
UNUSUAL FIRE AND EXPLOSION HAZARDS:	The toner powder cannot be removed, until the cartridge is forced to be broken.

SECTION 5 - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE:	na
EFFECTS OF OVEREXPOSURE:	Low hazard caused by fine powder (toner)
EMERGENCY AND FIRST AID PROCEDURE:	na

SECTION 6 - REACTIVITY DATA

STABILITY:	Stable
INCOMPATIBILITY:	None
HAZARDOUS DECOMPOSITION PRODUCTS:	None
HAZARDOUS POLYMERIZATION:	Will not occur

SECTION 7 - SPILL OR LEAK PROCEDURE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:	No toner spillage occurs in normal operation or handling. If it should occur, collect and discard
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WASTE DISPOSAL METHOD:	Discard in a cartridge like usual plastic waste. Do not take out toner only.
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SECTION 8 - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:	na
VENTILATION:	na
PROTECTIVE GLOVES:	na
EYE PROTECTION:	na
OTHER PROTECTIVE EQUIPMENT:	na

SECTION 9 - SPECIAL PRECAUTIONS

fiber carton. Package appropriately for safe feed to an incinerator or dissolve in compatible waste solvents prior to incineration.

WASTE DISPOSAL METHOD:

Dispose in an approved incinerator or contract with licensed chemical disposal agency. Disposal may be subject to local laws.

SECTION 8 - SPECIAL PROTECTION INFORMATION

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

SECTION 9 - SPECIAL PRECAUTIONS**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:**

Keep out of reach of children.

Keep from contact with oxidizing materials.

This is enough safety information to meet OSHA requirements.

MATERIAL SAFETY DATA SHEET

MSDS
939

85/545-35

SECTION 1 - IDENTIFICATION

PRODUCT NAME: Canon LBP EP-Cartridge

DESCRIPTION: An assembly for canon laser beam printer. Composed of photosensitive drum, toner powder and a cleaner blade.

The toner powder is a mixture of several chemicals and comprises fine particles of iron oxide, synthetic resin and pigments.

Photosensitive layer on the drum contains a very small amount of synthetic dye and pigments.

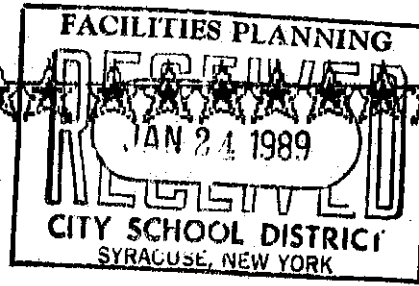
SECTION 2 - HAZARDOUS INGREDIENTS

All of the ingredients are listed on TSCA Inventory and are not hazardous, nontoxic and carcinogen-free.

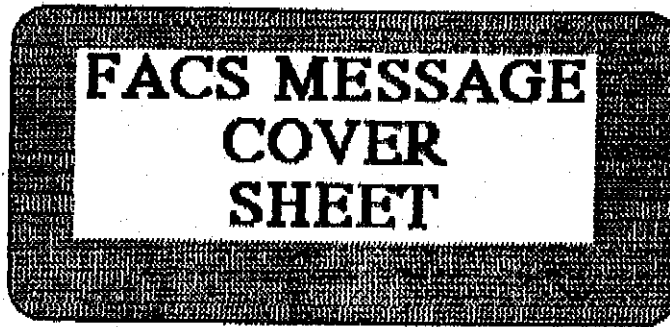
SECTION 3 - PHYSICAL DATA

BOILING POINT (C):	na
SOLIDIFYING POINT:	na

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EAST COAST OPERATIONS CHARLOTTE WAREHOUSE



DATE: 1/24/89

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TO: Carol Wasko - Facility Planning
Syracuse City Schools

FROM: Kelly Speer

APPLE COMPUTER INC.
5130 PARKWAY PLAZA BLVD.
CHARLOTTE, NC 28210