

MATERIAL SAFETY DATA SHEET

1791

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  
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SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

1.1 IDENTIFICATION OF THE SUBSTANCE OF PREPARATION

Product Name: EP CARTRIDGE BLACK

ITEM Nos: R34-0001, R34-0002, R34-0011, R34-0012 (Weight) N/A

DESCRIPTION: An assembly for Laser beam Printer, composed of a photosensitive drum, toner powder, developer unit, corona unit and cleaner blade. The toner powder cannot be removed unless the cartridge is forced and broken.

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

For other Information; call the Marketing and Distribution Center in Your Area.

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

Weight %	(CAS Registry No.)	Component
55 - 65	-----	Styrene Acrylate Copolymer
30 - 40	1317-61-9	Iron Oxide

(See SECTION 8 for Exposure Limits.)

Manufacturer contact states all other information is proprietary.

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

Toner Low Hazard For Recommended Handling.

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. Seek medical attention.

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SECTION 5. FIRE FIGHTING MEASURES

Flash Point(Method Used): N/A  
Ignition Temperature: N/A  
Flammability: Non-flammable solid (According to test method of 16 CFR 1500.44).  
Flammable Limits: N/A  
Extinguishing Media: Water spray, carbon dioxide (CO2), dry chemical.  
Special Fire Fighting Procedures: None  
Hazardous Combustion Products: Carbon dioxide, carbon monoxide.  
Unusual Fire and Explosion Hazards: Toner material, like most organic material in powder form, is capable of creating a dust explosion.

SECTION 6. ACCIDENTAL RELEASE MEASURES

No toner spillage occurs in normal operation or handling. If it should occur, avoid inhalation of the dust. Sweep material onto paper and dispose of collected toner as plastic waste.

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.  
Storage: Store in a cool place.

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)  
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 and inhalation.  
Respiratory Protection: None should be needed.  
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

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Form:	Fine powder
Color:	Black
Odor:	Typical plastic odor
Specific Gravity: (Water=1):	1.4 - 1.6
Vapor Density (Air=1):	N/A
Evaporation Rate (n-Butyl Acetate=1):	N/A.
Melting Point:	100 - 150 Degrees Centigrade
Solubility in Water:	Negligible
Solubility in Organic Solvents:	Partially soluble in toluene and xylene.
pH:	N/A

SECTION 10. STABILITY AND REACTIVITY

Stability:	Stable
Incompatibility:	Strong oxidizing agents.
Hazardous Polymerization:	Will not occur.
Hazardous Decomposition Products:	Combustion will produce carbon dioxide, and carbon monoxide.

SECTION 11. TOXICOLOGICAL INFORMATIONEFFECTS 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.

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.