

MATERIAL SAFETY DATA SHEET

Manufacturer: Canon Inc:
30-2, Shimomaruko
3-Chome, Ohta-Ku
Tokyo
JAPAN

Telephone number: 03 758 2111

Distributor: Canon (UK) Ltd.

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SECTION 1 - IDENTIFICATION

Product Name: Canon EP-P cartridge (black)

Description: An assembly for LBP4i,4u & 430w composed of a photosensitive drum, toner powder, a developer unit, a charger and a cleaner blade. The toner powder cannot be removed, until the cartridge is forced to be broken.

SECTION 2 - INGREDIENTS

Principle Components	Wt %	USA OSHA ACGIH DFG
Styrene acrylate copolymer	45-55	
Iron oxide (1317-61-9)	45-55	

OSHA This column reveals the PEL (Permissible Exposure Limit) under the Occupational Safety and Health Administration.

ACGIH This column reveals the TLV (Threshold Limit Value) under the American Conference of Governmental Hygienists.

DFG This column reveals the MAK (Maximum Arbeitsplatzkonzentrationen) under the Deutsche Forschungsgemeinschaft

SECTION 3 -PHYSICAL DATA:

Boiling point	Not Applicable
Melting Point (°C):	100-150 °C
Vapor Pressure (mmHg):	Negligible
Vapor Density (AIR=1)	Not Applicable
Solubility in Water:	Negligible
Solubility in Organic Solvents:	Partially soluble in toluene and xylene
Specific Gravity (H2O=1):	1.5-1.8
Percent Volatile by Volume (%)	Negligible
Evaporation Rate (BUTYL ACETATE=1)	Negligible
PH in Concentrate	Not applicable
PH in Dilution as used	Not applicable
Appearance and Odor:	Toner is a fine black powder, slight plastic odor.

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

Flash Point:	No Data Available
Ignition temperature:	No Data Available
Flammability:	Non-flammable solid (According to test methods of USA 16CFR 1500.4 and 84/449/EEC (Annex V) A.10.)
Flammable Limits:	No Data Available
Extinguishing Media:	Water, CO2, Dry Chemicals
Special Fire Fighting Procedures:	None
Unusual Fire and Explosion Hazards:	Toner powder, like most organic material in powder form, is capable of creating a dust explosion.

SECTION 5 - - HEALTH HAZARD DATA OF TONER

EXPOSURE LIMITS:	USA OSHA (TWA*/PEL):15mg/m ³ (Total Dust) 5mg/m ³ (Respirable Fraction) ACGIH** (TWA/TLV): 10mg/m ³ (Total dust) DFG*** (MAK):6mg/m ³ (Feinstraubkonzentrationen)
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* The term "TWA" stands for Time Weighted Average

** The term "ACGIH" stands for TLV (Threshold Limit Value) under American Conference of Governmental Hygienists

*** The Term "DFG" stands for MAK (Maximal Arbeitsplatzkonzentrationen) under the Deutsche Forschungsgemeinschaft.

Effects of Overexposure :

Inhalation: Minimal respiratory tract irritation may occur as with exposure to large amounts of non-toxic dust.

Ingestion: Ingestion is not applicable mode of entry for ordinary use)

Eye Contact: May cause slight irritation

Skin Contact: Overexposure is unlikely to cause skin irritation.

Overexposure: No data available for chronic effects.

EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Not applicable for ordinary use

Ingestion: Not applicable for ordinary use

Eye Contact: Flush with plenty of water for at least 15 minutes

Skin Contact: Wash with soap and water

TOXICITY DATA:

MUTAGENICITY: Negative (Test strains: *S. typhimurium*)

CARCINOGENICITY: No Carcinogen or potential carcinogen according to IARC* Monographs, NTP**, OSHA*** (USA) regulation and EC Directive.

SECTION 6 - REACTIVITY DATA

Stability: Stable

Incompatibility: Strong oxidizers

Hazardous Decomposition Products: Combustion will produce carbon dioxide and, possible toxic chemicals such as carbon monoxide.

Hazardous Polymerization: Will not occur

* The term "IARC" stands for International Agency for Research on Cancer.

** The term "NTP" stands for National Toxicology Program (USA)

*** The term "OSHA" stands for PEL (Permissible Exposure Limit) under Occupational Safety and Health Administration.

SECTION 7 - 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 or collect it.

WASTE DISPOSAL METHOD:

This product is constructed from plastics and metals. The waste toner could be considered as plastic waste. Disposal may be subject to federal, state or local laws.

SECTION 8 - SPECIAL PROTECTION INFORMATION:

Respiratory Protection:	Not required under intended use.
Ventilation:	Good general ventilation should be sufficient under intended use.
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 away from contact with oxidizing materials

SECTION 10-SPECIAL PRECAUTIONS

CHEMICALS REQUIRED TO REPORT UNDER SARA TITLE III:

S313:

None

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 process. And, it is based on the level of our knowledge