
MATERIAL SAFETY DATA SHEET

DATE PREPARED: 13th January 1999**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING****1.1 Identification of the Substance or Preparation**

Product Name: EP-22 Cartridge
 Description: Ink Cartridge for LBP800, LBP810 & LBP1210

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
 Reigate
 Surrey
 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 route of entry for intended use of this product.

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

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 persists, obtain medical attention immediately.

EYE CONTACT: Do not allow victim to rub eye(s). Immediately flush with water for 5 minutes. If irritation persists, obtain medical advice immediately.

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: CO₂, water, and 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 ₂ , 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 onto 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 explosive dust-air mixtures.

SECTION 7. HANDLING AND STORAGE

HANDLING:	Avoid breathing dust. Use with adequate ventilation.
STORAGE:	Keep out of reach of children. Keep away from oxidising materials.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE GUIDELINES:	USA OSHA PEL: 15mg/m ³ (Total dust) 5mg/m ³ (Respirable fraction) ACGIH (TWA/TLV): 10mg/m ³ (Inhalable particulate) 3mg/m ³ (Respirable particulate) DFG (MAK): 4mg/m ³ (Inhalable fraction) 1.5mg/m ³ (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.

Revision Date: -

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):	No 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:	None.
HAZARDOUS DECOMPOSITION PRODUCTS:	CO, CO ₂ ,
CONDITIONS TO AVOID:	None.

SECTION 11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:

INHALATION:	Estimate: Rat, LC50:>5mg/L/4hr.
INGESTION:	Estimate: Rat, LD50 :>2000mg/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

<p>SENSITISATION: MUTAGENICITY:</p> <p>REPRODUCTIVE TOXICITY: CARCINOGENICITY:</p> <p>OTHERS:</p>	<p>EU Directive 67/548/EEC based on test data of rabbits. No data available. Ames test: Negative (test strains: S. typhimurium). No data available. No data available.</p> <p>Sub-acute Toxicity -Rats; 90 days inhalation Test Test sample: magnetic toner. (mean volume diameter is 6.0µm) NOEL (No observed effect level): 16mg/m³.</p>
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SECTION 12. ECOLOGICAL INFORMATION

No data available.

SECTION 13. DISPOSAL CONSIDERATIONS

<p>METHOD OF DISPOSAL:</p>	<p>Do not put toner or toner container into fire; heated 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.</p>
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SECTION 14. TRANSPORT INFORMATION

<p>UN#: UN SHIPPING NAME: UN CLASSIFICATION: UN PACKING GROUP: SPECIAL PRECAUTION:</p>	<p>2807 Magnetised material. 9 None. 73 or more of these products shipped together by air regulated as magnetised material.</p>
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SECTION 15. REGULATORY INFORMATION

EU INFORMATION

<p>INFORMATION ON THE LABEL: SYMBOL AND INDICATION: RISK PHRASE: S-PHRASE: DANGEROUS INGREDIENTS:</p>	<p>Not required. Not required. Not required. None.</p>
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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:	Not required.
Hazard warning:	Not required.
Safety Advice:	Not required.
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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