



**Black Toner Cartridge**

**PN: 39V2211, 39V2215**

**SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

**CHEMICAL PRODUCT NAME:** InfoPrint Color 1767 Black Toner Cartridge  
InfoPrint Color 1759 MFP or 1769 MFP Black Toner Cartridge

IBM Field Use Number: None  
IBM Material Reference Number: 940296230

**TRADE NAMES/SYNONYMS:**  
**CHEMICAL FAMILY:** Toner for Printers  
**PRODUCT USE:** Black High Yield Toner Cartridge for  
InfoPrint Color 1759 MFP, 1767, 1769 Laser Printers

**IBM Corporation**  
**New Orchard Road**  
**Armonk, New York 10504**  
**U.S.A.**

**INTERNATIONAL EMERGENCY NUMBER** 1-303-739-1111

**24-Hour Emergency Source Information:** 1-800-426-4333

**In U.S.A. Call:** 1-800-IBM-4333

**In Canada Call:** 1-800-IBM-4YOU.

**DISTRIBUTED BY:** IPFS ISFO  
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rue Louis Bleriot 5  
4460 Grace-Hollogne  
Belgium  
**TELEPHONE NUMBER** 31-43-350 2756

**E-mail ADDRESS OF COMPETENT PERSON:** sludwig@us.ibm.com

**CHEMICAL MANUFACTURER:**

| <b>IBM Part Number(s)</b> | <b>Description</b>         | <b>Part Number</b> |
|---------------------------|----------------------------|--------------------|
|                           | Black High Yield Cartridge | 39V2211            |
|                           | Black High Yield Cartridge | 39V2215            |

**Creation Date:** 2007-Jun-04  
**Revision Date:** 2007-Jun-25

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## **Section 2 - Hazards Identification**

The following information is based on testing of the product as a whole and/or characteristics of components.

**Emergency Overview:** Black powder with a slight odor. Carbon black has been classified as an IARC 2B carcinogen. May cause respiratory tract or skin irritation. May form flammable or explosive dust-air mixtures. Avoid chronic pulmonary exposures to dust. Avoid exposure to eyes, skin or clothing (will stain). Keep container closed. Use with adequate ventilation.

**Hazard Classification:** None

### **Routes of Entry and Potential Health Effects:**

**Inhalation:** Short Term Effects: Respiratory tract irritation may occur with exposure to large amounts of dust.

Long Term Effects: Potential risk of irreversible pulmonary effects. Chronic exposure is not expected when this product is used as intended.

**Skin Contact:** Not known as and dermal irritant or a dermal sensitizer

**Eye Contact:** May cause irritation.

**Ingestion:** Ingestion in not applicable route of entry for intended use.

**Carcinogen Status:** **IARC:** Y (Carbon Black)

**NTP:** N

**OSHA:** N

**ACGIH:** N

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## **Section 3 – Composition, Information on Ingredients**

| Component                  | Percent (wt.)  | CAS Number           | EINECS/ELINCS Number |
|----------------------------|----------------|----------------------|----------------------|
|                            | Classification | Symbol Letters       | Risk Phrases         |
| Styrene/Acrylate Copolymer | 60-70<br>None  | Trade Secret<br>None | None                 |
| Mn-Mg-Sr Ferrite Powder    | 10-20<br>None  | Trade Secret<br>None | None                 |
| Polyolefin Wax             | 1-10<br>None   | Trade Secret<br>None | None                 |
| Carbon Black               | 1-10<br>None   | 1333-86-4<br>None    | 2156099<br>None      |
| Amorphous Silica           | 1-5<br>None    | Trade Secret<br>None | None                 |
| Total                      | 100 Percent    |                      |                      |

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## **Section 4 - First Aid Measures**

|                               |  |
|-------------------------------|--|
| <b>Inhalation:</b>            | If symptoms, such as shortness of breath or persistent coughing are experienced, remove source of contamination and move individual to fresh air. If symptoms persist, seek medical attention. |
| <b>Skin Contact:</b>          | Wash with soap and water. Should irritation occur, seek medical attention.   |
| <b>Eye Contact:</b>           | Do not rub eyes. Flush immediately with plenty of water. Remove contact lenses and continue flushing for at least 15 minutes. If irritation develops and persists, seek medical attention.     |
| <b>Ingestion:</b>             | Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek medical attention. Never give anything by mouth to an unconscious person.                                     |
| <b>Aggravated Conditions:</b> | Exposure to high airborne dust concentrations, including toner, may aggravate existing respiratory conditions.   |
| <b>Notes to Physician:</b>    | No specific antidote.  |

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## **Section 5 – Fire Fighting Measures**

|  |  |
|--|--|
| <b>Flash Point/Range (°C):</b>           | Not determined   |
| <b>Auto ignition Temperature (°C):</b>   | Not Applicable   |
| <b>Flammable Limits in Air UEL:</b>      | Not determined   |
| <b>Flammable Limits in Air LEL:</b>      | Not determined   |
| <b>Suitable Extinguishing Media:</b>     | Carbon dioxide, water spray or fog, dry chemical or foam   |
| <b>NOT Suitable Extinguishing Media:</b> |  |
| <b>Hazardous Combustion Products:</b>    | Carbon monoxide, carbon dioxide, unidentified organics   |
| <b>Special Exposure Hazards:</b>         | Like many finely divided materials, toner dust, in high concentrations can form an explosive mixture in air which, if ignited, could result in a dust explosion. |
| <b>Special Protective Equipment:</b>     | Fire fighters should wear full protective clothing, including self-contained breathing apparatus, if a large number of cartridges are involved.                  |

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## **Section 6 - Accidental Release Measures**

|                                   |   |
|-----------------------------------|---|
| <b>Personal Precautions:</b>      | None required for intended use in printer.  |
| <b>Environmental Precautions:</b> | Disposal is subject to national, state, regional, or provincial regulations.  |
| <b>Small Spill and Leak</b>       | Sweep up and discard to a waste container.  |
| <b>Large Spill and Leak</b>       | If a dust cloud is possible due to a spill, remove all sources of ignition such as open sparks, flames, or static discharge to prevent the ignition of the dust. Minimize dust generation during clean up. Sweep up spill with non-metallic broom and dustpan. Contain for disposal. Oil permeated sweeping compound may be useful in cleaning up spills. |

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## **Section 7 - Handling and Storage**

|                       |   |
|-----------------------|---|
| <b>Safe Handling:</b> | To avoid damage to cartridge and accidental contact with toner<br><b>KEEP OUT OF REACH OF CHILDREN.</b> |
| <b>Safe Storage:</b>  | Store in a cool, dry place. Store away from oxidizing material.   |

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## **Section 8 - Exposure Controls / Personal Protection**

### **Exposure Limits Carbon Black**

|                            |   |
|----------------------------|---|
| 3.5 mg/m <sup>3</sup>      | OSHA TWA PEL  |
| 3.5 mg/m <sup>3</sup>      | ACGIH TWA TLV - ACGIH A4 - Not classifiable as a human carcinogen                   |
| 3.5 mg/m <sup>3</sup>      | NIOSH recommended 10 hour TWA   |
| 0.1 mg/m <sup>3</sup>      | NIOSH recommended 10 hour TWA (in the presence of polycyclic aromatic hydrocarbons) |
| <b>Measurement Method:</b> | Particulate filter; gravimetric; (NIOSH III # 5000).                                |

### **European Union and Member State Occupational Exposure Limit Values:**

#### **Measurement Method:**

**Biological Limit Values:** None

**Recommended Monitoring Procedures:** None

#### **Occupational Exposure Controls**

**Engineering Controls:** Use of local exhaust ventilation.

**Ventilation:** Provide adequate ventilation.

**Respiratory Protection:** No respirator is required under normal conditions of use. Under conditions of frequent or heavy exposure, protection may be needed.

**Eye Protection:** If significant eye exposure is anticipated, the use of chemical splash goggles is recommended.

**Emergency Eye Wash:** Where there is a potential for eye exposure to this substance, an eye wash fountain should be provided within the immediate work area for emergency use.

**Protective Clothing:** Protective clothing is not required under normal conditions.

**Protective Gloves:** If significant skin exposure is anticipated, appropriate gloves should be worn to prevent skin contact with this substance.

**Other Protective Equipment:** None

#### **Environmental Exposure Controls:**

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## **Section 9 - Physical and Chemical Properties**

|   |                         |   |                |
|---|-------------------------|---|----------------|
| <b>Physical State:</b>                          | Solid powder            | <b>Melting Point/Range (°C):</b>                  | Not determined |
| <b>Color:</b>                                   | Black                   | <b>Boiling Point/Range (°C):</b>                  | Not applicable |
| <b>Odor:</b>                                    | Faint plastic-like odor | <b>Freezing Point/Range (°C):</b>                 | Not applicable |
| <b>Pressurized (Yes/No):</b>                    | No                      | <b>Evaporation Rate:</b>                          | Not applicable |
| <b>Specific Gravity:</b>                        | Not determined          | <b>pH:</b>  | Not applicable |
| <b>Solubility in Water:</b>                     | Insoluble               | <b>% Volatiles (by weight):</b>                   | Not determined |
| <b>Solubility in Other:</b>                     | No Data                 | <b>Vapor Density (Air=1):</b>                     | Not applicable |
| <b>Explosive Properties:</b>                    | Not determined          | <b>Vapor Pressure:</b>                            | Not applicable |
| <b>Oxidizing Properties</b>                     | Not determined          | <b>Relative Density:</b>                          | Not determined |
| <b>Viscosity:</b>                               | Not applicable          | <b>Flammability (solid,gas)</b>                   | Not determined |
| <b>Partition Coefficient (n-octanol/water):</b> | Not applicable          | <b>Flash Point (°C) (Closed Cup or Open Cup):</b> | Not determined |

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## **Section 10 - Stability and Reactivity**

|  |                  |
|--|------------------|
| <b>Chemical Stability:</b>                     | Stable           |
| <b>Hazardous Polymerization:</b>               | Will not occur   |
| <b>Conditions to Avoid:</b>                    | None             |
| <b>Incompatibilities with Other Materials:</b> | Strong oxidizers |
| <b>Hazardous Decomposition Byproducts:</b>     | None             |

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## **Section 11 - Toxicological Information**

### **Routes of Entry and Potential Health Effects:**

|                      |  |
|----------------------|--|
| <b>Inhalation:</b>   | Short Term Effects: Respiratory tract irritation may occur with exposure to large amounts of dust.<br>Long Term Effects: Potential risk of irreversible pulmonary effects. Chronic exposure is not expected when this product is used as intended. |
| <b>Skin Contact:</b> | Not known as a dermal irritant or dermal sensitizer  |
| <b>Eye Contact:</b>  | May cause irritation.  |
| <b>Ingestion:</b>    | Ingestion in not applicable route of entry for intended use.   |

### **PRODUCT DATA (Toner Composition including Carbon Black)**

|  |  |
|--|--|
| <b>Chronic Toxicity:</b>                             | Industry tests on similar toner formulations showed no signs of overt toxicity. Microscopic examination of the lungs of rats exposed to high levels of toner showed a chronic inflammatory response and a mild to moderate degree of lung fibrosis. At airborne concentrations more relevant to potential human exposure, no evidence of toxicity to the respiratory tract was found.                                      |
| <b>Acute Toxicity:</b>                               | Low acute inhalation toxicity. As with exposure to high concentrations of any dust, irritation of the respiratory tract may occur. Pure carbon black, a minor component of this product, has been listed by IARC as a group 2B (possible carcinogen). This classification is based on rat "lung particulate overload" studies performed with airborne particulate carbon black. Toner is not listed by IARC, NTP, or OSHA. |
| <b>Repeated Dose Toxicity:</b>                       | No data available.   |
| <b>Reproductive Toxicity:</b>                        | No data available.   |
| <b>Sensitization to Product:</b>                     | Not known as a dermal irritant or dermal sensitizer  |
| <b>Irritancy of Product:</b>                         | Not known as a dermal irritant or dermal sensitizer  |
| <b>Carcinogenicity:</b>                              | Neither this product nor any of its components present above 0.1% are listed by IARC, NTP, or OSHA as known carcinogens. Toner is negative in the Ames Assay.  |
| <b>Mutagenicity:</b>                                 | Similar toner formulations were not mutagenic in a battery of <i>in vitro</i> genotoxicity assays including the Ames Salmonella/mammalian microsome mutation assay.  |
| <b>Teratogenicity:</b>                               | No data available.   |
| <b>Toxicologically Synergistic Products:</b>         | No data available.   |
| <b>Toxicokinetics, Metabolism, and Distribution:</b> | No data available.   |

**Toxicity Data:**

LD<sub>50</sub> (rat, oral): Not available; Predicted to be > 10 g/kg based on test results of similar toner formulations

LD<sub>50</sub> (rabbit, skin): Not available; Predicted to be > 2 g/kg based on test results of similar toner formulations.

LC<sub>50</sub> (rat, inhalation): Not available; Predicted to be > 4.9 g/m<sup>3</sup> based on test results of similar toner formulations.

## **CARBON BLACK (Alone)**

|                                  |  |
|----------------------------------|--|
| <b>Chronic Toxicity:</b>         | Industry tests on similar toner formulations showed no signs of overt toxicity. Microscopic examination of the lungs of rats exposed to high levels of toner showed a chronic inflammatory response and a mild to moderate degree of lung fibrosis. At airborne concentrations more relevant to potential human exposure, no evidence of toxicity to the respiratory tract was found.  |
| <b>Acute Toxicity:</b>           | Low acute inhalation toxicity. As with exposure to high concentrations of any dust, irritation of the respiratory tract may occur. Pure carbon black, a minor component of this product, has been listed by IARC as a group 2B (possible carcinogen). This classification is based on rat "lung particulate overload" studies performed with airborne particulate carbon black. Toner is not listed by IARC, NTP, or OSHA.   |
| <b>Repeated Dose Toxicity:</b>   | Toxic overexposure may affect the respiratory system, skin, and mucous membranes.  |
| <b>Reproductive Toxicity:</b>    | No data available.   |
| <b>Sensitization to Product:</b> | Not known as a dermal irritant or dermal sensitizer.   |
| <b>Irritancy of Product:</b>     | Not known as a dermal irritant or dermal sensitizer.   |
| <b>Carcinogenicity:</b>          | In 1996 the International Agency for Research on Cancer (IARC) reevaluated carbon black as a Group 2B carcinogen based upon the development of lung tumors in rats receiving chronic inhalation exposures of free carbon black. The effects were observed only in rats exposed to high concentrations of carbon black at levels that induce particle overload of the lung. Studies performed in animal models other than rats (i.e., mice, hamsters) have not demonstrated an association between carbon black and lung tumors. Moreover, a two-year cancer bioassay using a typical toner preparation containing carbon black demonstrated no association between toner exposure and tumor development in rats. |

In contrast to the IARC assessment, neither the Occupational Safety and Health Administration (OSHA) nor the American Conference of Governmental Industrial Hygienists (ACGIH) nor the National Toxicology Program (NTP) has listed carbon black as a carcinogen.

Epidemiology studies of workers in the carbon black producing industries of North America and Western Europe do not demonstrate an association between carbon black and cancer, even in high exposure occupational settings. In addition, in its reevaluation of carbon black, IARC concluded that "there is inadequate evidence in humans for the carcinogenicity of carbon black". Chronic overexposure to many dusts, including carbon black dust, may result in respiratory tract irritation and slight changes in pulmonary function.

Collectively, the available data from animal and human epidemiology studies suggest that carbon black, as contained in this product, does not present a cancer risk to the end user if the handling and personal protective measures contained within this MSDS are understood and followed.

|  |   |
|--|---|
| <b>Mutagenicity:</b>                                 | Similar toner formulations were not mutagenic in a battery of <i>in vitro</i> genotoxicity assays including the Ames Salmonella/mammalian microsome mutation assay.   |
| <b>Teratogenicity:</b>                               | No data available.  |
| <b>Toxicologically Synergistic Products:</b>         | No data available.  |
| <b>Toxicokinetics, Metabolism, and Distribution:</b> | No data available.  |
| <b>At Increased Risk From Exposure:</b>              | Persons with certain pre-existing upper respiratory disorders, such as bronchitis or asthma.  |
| <b>Toxicity Data:</b>                                | LD <sub>50</sub> (rat, oral): 15,400 mg/kg<br>LD <sub>50</sub> (rabbit, skin): 3,000 mg/kg (NIOSH RTECS #: FF5800000)<br>LC <sub>50</sub> (rat, inhalation): Not available; Predicted to be > 4.9 g/m <sup>3</sup> based on test results of similar toner formulations. |

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## **Section 12 - Ecological Information**

**Ecotoxicity:** Not determined  
**Aquatic toxicity:** Not determined  
**Mobility:** Not determined  
**Persistence and Degradability:** Not determined  
**Bioaccumulative Potential:** Not determined  
**Persistence, Bioaccumulative, and Toxicity Assessment Results:** Not determined

### **Other Adverse Effects**

**Ozone Depletion Potential:**  
**Photochemical Ozone Creative Potential:**  
**Endocrine Disruption Potential:**  
**Global Warming Potential:**

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## **Section 13 - Disposal Considerations**

**Waste Disposal:** This product is not a listed hazardous waste in accordance with Federal Regulation 40 CFR Part 261. If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal whether a material has been contaminated and should be classified as a hazardous waste. Disposal is subject to local, state and federal regulations.

**Appropriate Disposal Method:**  
**Waste Management Measures:**

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## **Section 14 - Transport Information**

**Special Precautions:** Not classified as a hazardous material or substance under US DOT.

|                                  |                |                             |                |
|----------------------------------|----------------|-----------------------------|----------------|
| <b>UN Number:</b>                |                | <b>ADR/RID Class:</b>       |                |
| <b>ICAO Number:</b>              |                | <b>ADR/RID Item:</b>        |                |
| <b>ICAO/IATA Classification:</b> | Not applicable | <b>ADR/RID Labels:</b>      |                |
| <b>ICAO Subrisks:</b>            |                | <b>Hazard Code:</b>         | Not applicable |
| <b>ICAO Packaging Group:</b>     | Not applicable | <b>IMO Class:</b>           |                |
| <b>ICAO Labels:</b>              |                | <b>IMDG Page:</b>           |                |
| <b>Proper Shipping Name:</b>     | Not applicable | <b>IMO Subrisks:</b>        |                |
|                                  |                | <b>IMO Packaging Group:</b> | Not applicable |



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## **Section 15 - Regulatory Information**

**NFPA Rating:** Health: 1 Flammability: 1 Reactivity: 0  
**HMIS Classification:** Health:1 Flammability:1 Reactivity: 0

**Chemical Safety Assessment  
Availability:**

**Label Information**  
**Danger Symbol:**  
**Risk Phrases:**  
**Safety Phrases:**

**TSCA (USA):** All ingredients are listed on the Toxic Substances Control Act (TSCA) inventory, have been registered, or are exempt.

**SARA / EPCRA (USA):** None of the ingredients in this product has a final reportable quantity (RQ) under Emergency Planning and Community Right-to Know Act (EPCRA) - Section 302: Extremely Hazardous Substances (EHS) or notification requirements for EHS under Section 304.

**California Proposition 65:** This product contains no known materials at levels that the State of California has found to cause cancer, birth defects or other reproductive harm - California Proposition 65.

**DSL (Canada):** All ingredients are listed on the Canadian Domestic Substances List (DSL), have been registered on the Non-Domestic Substances List (NDSL), or are exempt.

**EINECS (Europe):** All ingredients are listed on the European Inventory of Existing Commercial Substances (EINECS) list, have been registered on the European List of New Chemical Substances (ELINCS), or are exempt.

**ENCS (Japan):** All ingredients are listed on the Japanese Existing and New Chemical Substances (ENCS) list, have been registered, or are exempt.

**AICS (Australia):** All ingredients are listed in Australian Inventory of Commercial Substances (AICS), have been registered, or are exempt.

**ECL (Korea):** All ingredients are listed on the Korean Existing Chemicals List (ECL), have been registered, or are exempt.

**WHMIS Hazard Class (Canada):** Not a WHMIS controlled product.

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**Section 16 - Other Information**

**Reason for revision:** Add Products 1759 MFP & 1769 MFP  
**Additional advice:** None  
**Prepared By:** InfoPrint Solutions Company, LLC  
**Preparer's Address:** Boulder, Colorado, USA

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