



# MATERIAL SAFETY DATA SHEET

## 1 PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** InfoPrint Version 7 Developer

**Product No.:** 56Y2701

**Synonyms:** Company Chemical No.: 100001910

**Manufacturer Name:**

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**Emergency Telephone:**

1-303-739-1111

**Supplier:**

InfoPrint Solutions Company, LLC

6300 Diagonal Highway

Boulder, Colorado 80301-9270

U.S.A.

www.infoprint.com

**Intended Use:** Developer for use in InfoPrint  
printers

**Contact Person:**

msdsinfo@us.ibm.com

or

msdsinfo@infoprint.com

## 2 HAZARDS IDENTIFICATION

### Emergency Overview

**Physical State:** Powder

**Color:** Black

**Odor:** Slightly plastic odor

Low hazard for usual industrial or commercial handling by trained personnel.

### Potential Health Effects

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

**Eye Contact:** Mechanical irritation of eyes.

**Skin Contact:** Not known to InfoPrint Solutions Company as a dermal irritant or dermal sensitizer.

**Ingestion:** No harmful effects expected in amounts likely to be ingested by accident.

**Chronic Health Effects:** Chronic exposure may cause potential risk of irreversible pulmonary effects. Chronic exposure is highly unlikely when this product is used as intended.

**Target Organ(s):** | Respiratory system |

**Potential Physical / Chemical Effects:** This product is not flammable. Fine particles may form explosive mixtures with air.

**OSHA Regulatory Status:** This product is not hazardous according to OSHA 29CFR 1910.1200.

**Environment:** No data available.

### 3 COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS-No.	Concentration*
Ferrite	65997-18-4	50 - 100%
C.I. Solvent black 7	8005-02-5	< 5%
Polyester resin	117581-13-2	< 5%
Polyester resin	339340-62-4	< 5%
Resin	-	< 5%
Silicone resin	123127-08-2	< 5%
Wax	-	< 5%
Wax	8015-86-9	< 5%
†Carbon black	1333-86-4	< 5%
†Silica	7631-86-9	< 5%
†Organic salt	102561-46-6	< 2%
†Metallic soap	557-05-1	< 0.5%

\* All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

† This chemical is hazardous according to OSHA/WHMIS criteria.

However, Carbon black is not classified as hazardous when bound in toner polymers.

### 4 FIRST AID MEASURES

**Inhalation:** If symptomatic, move to fresh air. Get medical attention if any discomfort continues.

**Eye Contact:** Flush thoroughly with water. If irritation occurs, get medical assistance.

**Skin Contact:** Wash skin with soap and water. Should dermal irritation or dermal sensitization occur, seek medical attention.

**Ingestion:** Rinse mouth thoroughly if dust is ingested. Get medical attention if any discomfort continues.

### 5 FIRE-FIGHTING MEASURES

**Extinguishing Media:** Extinguish with foam, carbon dioxide, dry powder or water fog.

**Unsuitable Extinguishing Media:** None.

**Special Fire Fighting Procedures:** Avoid dust formation.

**Unusual Fire & Explosion Hazards:** Dust may form explosive mixture with air.

**Hazardous Combustion Products:** Carbon Oxides, Silicone oxides, Sulfur Oxides, Unidentified organic compounds

**Protective Measures:** Selection of respiratory protection for fire fighting: follow the general fire precautions indicated in the workplace.

**Flammability Class:** NFPA Rating Fire = 1. Materials that must be preheated before ignition can occur.

## 6 ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Wear necessary protective equipment. See Section 8 of the MSDS for Personal Protective Equipment.

**Spill Cleanup Methods:** Sweep or scoop up and remove. Avoid dust formation. Avoid sparks and prevent accumulation of electrostatic charges. Collect and dispose of spillage as indicated in section 13 of the MSDS.

**Environmental Precautions:** Avoid discharge into drains, water courses or onto the ground.

**Notification Procedures:** Inform authorities if large amounts are involved.

## 7 HANDLING AND STORAGE

**Handling:** Avoid inhalation of dust and exposure to eyes and skin. Use with adequate ventilation. Wear necessary protective equipment. See Section 8 of the MSDS for Personal Protective Equipment. Observe good industrial hygiene practices.

**Storage:** Store in closed original container in a dry place. Keep away from heat, sparks and open flame. Store away from incompatible materials. See Section 10 for incompatible materials.

## 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure Limits:

Chemical Name	Source	Type	Exposure Limits	Notes
Carbon black	CA. Alberta OELs	TWA	3.5 mg/m <sup>3</sup>	
Carbon black	CA. British Columbia OELs	TWA	3.5 mg/m <sup>3</sup>	
Carbon black	CA. Ontario OELs	TWA	3.5 mg/m <sup>3</sup>	
Carbon black	CA. Quebec OELs	TWA	3.5 mg/m <sup>3</sup>	
Carbon black	MEX. OELs	TWA	3.5 mg/m <sup>3</sup>	
Carbon black	MEX. OELs	STEL	7 mg/m <sup>3</sup>	
Carbon black	US. ACGIH TLV	TWA	3.5 mg/m <sup>3</sup>	
Carbon black	US. NIOSH Guide	IDLH	1750 mg/m <sup>3</sup>	

Carbon black	US. OSHA Z-1 PEL	TWA	3.5 mg/m <sup>3</sup>	
Metallic soap	CA. Alberta OELs	TWA	10 mg/m <sup>3</sup>	
Metallic soap (Total dust.)	CA. British Columbia OELs	TWA	10 mg/m <sup>3</sup>	
Metallic soap (Respirable fraction.)	CA. British Columbia OELs	TWA	3 mg/m <sup>3</sup>	
Metallic soap (Total dust.)	CA. British Columbia OELs	STEL	20 mg/m <sup>3</sup>	
Metallic soap (Total dust.)	CA. Ontario OELs	TWA	10 mg/m <sup>3</sup>	
Metallic soap	MEX. OELs	TWA	10 mg/m <sup>3</sup>	
Metallic soap	MEX. OELs	STEL	20 mg/m <sup>3</sup>	
Metallic soap	US. ACGIH TLV	TWA	10 mg/m <sup>3</sup>	
Metallic soap (Respirable fraction.)	US. OSHA Z-1 PEL	TWA	5 mg/m <sup>3</sup>	
Silica	CA. Alberta OELs	TWA	10 mg/m <sup>3</sup>	
Silica (Respirable.)	CA. British Columbia OELs	TWA	1.5 mg/m <sup>3</sup>	
Silica (Total)	CA. British Columbia OELs	TWA	4 mg/m <sup>3</sup>	
Silica	CA. Ontario OELs	TWA	10 mg/m <sup>3</sup>	
Silica	MEX. OELs	TWA	10 mg/m <sup>3</sup>	
Silica (Respirable dust.)	MEX. OELs	TWA	3 mg/m <sup>3</sup>	
Silica	US. ACGIH TLV	TWA	10 mg/m <sup>3</sup>	
Silica	US. NIOSH Guide	IDLH	3000 mg/m <sup>3</sup>	
Silica	US. OSHA Z-3 PEL	TWA	20 Mppcf	

**Engineering Controls:** Provide adequate ventilation.

**Respiratory Protection:** No protection is ordinarily required under normal conditions of use and with adequate ventilation. During dust-raising work: If ventilation is insufficient, suitable respiratory protection must be provided.

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

**Hand Protection:** If significant skin exposure is anticipated, the use of protective gloves is recommended.

**Skin Protection:** No protection is ordinarily required under normal conditions of use.

**Hygiene Measures:** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

**Environmental Exposure Controls:** Environmental manager must be informed of all major spillages.

<b>9</b>	<b>PHYSICAL AND CHEMICAL PROPERTIES</b>
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**Color:** Black

**Odor:** Slightly plastic odor

**Odor Threshold:** No data available.

**Physical State:** Powder

**pH:** Not applicable  
**Melting Point:** No data available.  
**Freezing Point:** Not applicable.  
**Boiling Point:** Not applicable.  
**Flash Point:** Not applicable.  
**Evaporation Rate:** Not applicable.  
**Flammability (Solid):** No data available.  
**Flammability Limit - Upper (%):** No data available.  
**Flammability Limit - Lower (%):** No data available.  
**Vapor Pressure:** Not applicable.  
**Vapor Density (Air=1):** Not applicable.  
**Specific Gravity:** 5 (Approximate)  
**Solubility in Water:** Insoluble  
**Solubility (Other):** No data available.  
**Partition Coefficient (n-Octanol/water):** Not applicable.  
**Autoignition Temperature:** Not applicable.  
**Decomposition Temperature:** No data available.  
**Viscosity:** Not applicable.  
**Explosive Properties:** No data available

<b>10</b>	<b>STABILITY AND REACTIVITY</b>
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**Stability:** Stable under normal temperature conditions.

**Conditions to Avoid:** Heat, sparks, flames.

**Incompatible Materials:** Strong oxidizing agents.

**Hazardous Decomposition Products:**

At Elevated Temperatures:	Sulfur Oxides, Unidentified organic compounds
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**Possibility of Hazardous Reactions:** Will not occur.

<b>11</b>	<b>TOXICOLOGICAL INFORMATION</b>
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**Specified Substance(s)**

**Acute Toxicity:**

Chemical Name	Test Results
Silica	Inhalation Lethal Concentration (1 hour(s), Rat): > 200000 mg/m <sup>3</sup>
Carbon black	Dermal LC50 (Rabbit): >3000 mg/kg
Carbon black	Oral LD50 (Rat): >15400 mg/kg
Metallic soap	Dermal LD50 (Rabbit): >2000 mg/kg
Metallic soap	Oral LD50 (Rat): >5000 mg/kg

**Chronic Toxicity:** Pure carbon black, a minor component of this product, is not classified as hazardous when bound in toner polymers.

**Listed Carcinogens:**

Chemical Name	IARC	NTP	OSHA	ACGIH

Carbon black	2B	Not Listed	Not Listed	A4
Metallic soap	Not Listed	Not Listed	Not Listed	A4
Silica	3	Not Listed	Not Listed	Not Listed

IARC: 1 = Carcinogenic to Humans; 2A = Probably Carcinogenic to Humans; 2B = Possibly Carcinogenic to Humans; 3 = Not classifiable as to carcinogenicity to humans; 4 = Probably not carcinogenic to humans; Not listed = Not evaluated by IARC.

ACGIH: A1 = Confirmed Human Carcinogen; A2 = Suspected Human Carcinogen; A3 = Confirmed Animal Carcinogen; A4 = Not classifiable as a human carcinogen; A5 = Not suspected to be a human carcinogen; Not listed = Not evaluated by ACGIH.

### **Product Information**

#### **Acute Toxicity:**

**Test Results:** Inh-Dust/Mist LC50 (1 hour(s), Rat): >20000 mg/l

**Other Acute:** As with exposure to high concentrations of any dust, irritation of the respiratory tract may occur. Persons with certain pre-existing upper respiratory disorders, such as bronchitis or asthma have an increased risk of irritation.

**Chronic Toxicity:** No additional adverse health effects noted.

## **12 ECOLOGICAL INFORMATION**

**Ecotoxicity:** No data available.

**Mobility:** The product is insoluble in water.

**Persistence and Degradability:** No data available.

**Bioaccumulation Potential:** No data available.

## **13 DISPOSAL CONSIDERATIONS**

**General Information:** Dispose in accordance with applicable federal, state, and local regulations.

**Disposal Methods:** No specific disposal method required.

**Container:** Since emptied containers retain product residue, follow label warnings even after container is emptied.

## **14 TRANSPORT INFORMATION**

**DOT** Not regulated.

**TDG** Not regulated.

**IATA** Not regulated.

**IMDG** Not regulated.

## **15 REGULATORY INFORMATION**

**Canadian Controlled Products Regulations:** This product has been classified according to the hazard criteria of the Canadian Controlled Products Regulations, Section 33, and the MSDS contains all required information.

**WHMIS Classification:** Not classified.

**Mexican Dangerous Statement:** This product is not dangerous according to Mexican regulations.

### Inventory Status

**This product or all components are listed or exempt from listing on the following inventory:** TSCA, DSL

### US Regulations

#### **CERCLA Hazardous Substance List (40 CFR 302.4):**

Chemical Name	RQ
Metallic soap	-

#### **SARA Title III**

**Section 302 Extremely Hazardous Substances (40 CFR 355, Appendix A):** Not regulated.

#### **Section 311/312 (40 CFR 370):**

Acute (Immediate)     Chronic (Delayed)     Fire     Reactive     Pressure Generating

**Section 313 Toxic Release Inventory (40 CFR 372):** Not regulated.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):**  
Not regulated.

**Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3):** Not regulated.

**Drug Enforcement Act:** Not regulated.

### TSCA

**TSCA Section 4(a) Final Test Rules & Testing Consent Orders:** C.I. Solvent black 7

**TSCA Section 5(a)(2) Final Significant New Use Rules (SNURs) (40CFR 721, Subpt. E):** Not regulated.

**TSCA Section 5(e) PMN-Substance Consent Orders:** Not regulated.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D):** C.I. Solvent black 7

### State Regulations

**California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):** Carbon black: This product contains no known material requiring warning under California Proposition 65. Pure carbon black is on the State of California's list of chemicals known to cause cancer or reproductive toxicity, but the California Office of Environmental Health Hazard Assessment (OEHHA) exempted

carbon black bound in product formulations such as toner from the Proposition 65 warning requirements.

**Massachusetts Right-To-Know List:** Carbon black; Silica

**Michigan Critical Materials List (Michigan Natural Resources and Environmental Protection Act (Act. 451 of 1994)):** Metallic soap

**Minnesota Hazardous Substances List:** Carbon black; Silica

**New Jersey Right-To-Know List:** Carbon black; Silica

**Pennsylvania Right-To-Know List:** Carbon black; Silica

**Rhode Island Right-To-Know List:** Carbon black

<b>16</b>	<b>OTHER INFORMATION</b>
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### HAZARD RATINGS

	Health Hazard	Fire Hazard	Instability	Special Hazard
<b>NFPA</b>	1	1	0	0

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

NFPA Label colored diamond code: Blue - Health; Red - Flammability; Yellow - Instability; White - Special Hazards

	Health Hazard	Flammability	Physical Hazard	Personal Protection
<b>HMIS</b>	0	1	0	E

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

Personal Protection codes: E - Safety Glasses, Gloves, Dust Respirator

HMIS Label colored bar code: Blue - Health; Red - Flammability; Orange - Physical Hazards; White - Special

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