



MATERIAL SAFETY DATA SHEET

1	PRODUCT AND COMPANY IDENTIFICATION
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Product Name: InfoPrint 2190, 2210, 2235 Toner; Infoprint 2085, 2105, 2090ES, 2105ES Toner; Infoprint 2060ES, 2070ES Toner, InfoPrint Pro 907, 1107, 1357 Toner; InfoPrint Pro 907EX, 1107EX, 1357EX Toner

Product No.: See Synonyms

Synonyms: 41U2163, 39U6749, 57P1416, 53P6724, 10R2774, 10R2274, 45U3163, 45U3165, 45U3167, 45U3169.

Company Chemical No.: 940104670.

Manufacturer Name:

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Emergency Telephone:

866-213-4250

Supplier:

InfoPrint Solutions Company, LLC
6300 Diagonal Highway
Boulder, Colorado 80301-9270
U.S.A.
www.infoprint.com

Intended Use: Toner for use in InfoPrint printers

Contact Person:

msdsinfo@infoprint.com

2	HAZARDS IDENTIFICATION
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Emergency Overview

Physical State: Powder

Color: Black

Odor: Slightly plastic odor

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

The classification of this product is based all or in part on test data.

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: Inhalation of airborne titanium dioxide dust may cause cancer. 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 | Eye | Skin |

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

OSHA Regulatory Status: This product is hazardous according to OSHA 29CFR 1910.1200.

Environment: The product contains a substance which is harmful to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

3	COMPOSITION / INFORMATION ON INGREDIENTS
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General Information: The product is a mixture.

Chemical Name	CAS-No.	Concentration*
Polyester resin	116736-81-3	< 60%
Polyester resin	117581-13-2	< 60%
Polyester resin	149367-99-7	< 30%
†Carbon black	1333-86-4	< 15%
Carnauba wax	8015-86-9	< 10%
Wax	8016-60-2	1 - 10%
†4,4'-Isopropylidenediphenol, propoxylated	37353-75-6	1 - 10%
†Pigment	226996-19-6	< 1%
†Titanium dioxide	13463-67-7	< 1%

* 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
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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, 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 ³	
Carbon black	CA. British Columbia OELs	TWA	3.5 mg/m ³	
Carbon black	CA. Ontario OELs	TWA	3.5 mg/m ³	
Carbon black	CA. Quebec OELs	TWA	3.5 mg/m ³	
Carbon black	MEX. OELs	TWA	3.5 mg/m ³	
Carbon black	MEX. OELs	STEL	7 mg/m ³	
Carbon black	US. ACGIH TLV	TWA	3.5 mg/m ³	
Carbon black	US. NIOSH Guide	IDLH	1750 mg/m ³	
Carbon black	US. OSHA Z-1 PEL	TWA	3.5 mg/m ³	
Titanium dioxide	CA. Alberta OELs	TWA	10 mg/m ³	
Titanium dioxide (Total dust.)	CA. British Columbia OELs	TWA	10 mg/m ³	
Titanium dioxide (Respirable fraction.)	CA. British Columbia OELs	TWA	3 mg/m ³	
Titanium dioxide (Total dust.)	CA. Ontario OELs	TWA	10 mg/m ³	
Titanium dioxide	MEX. OELs	STEL	20 mg/m ³	as Ti
Titanium dioxide	MEX. OELs	TWA	10 mg/m ³	as Ti
Titanium dioxide	US. ACGIH TLV	TWA	10 mg/m ³	
Titanium dioxide	US. NIOSH Guide	IDLH	5000 mg/m ³	
Titanium dioxide (Total dust.)	US. OSHA Z-1 PEL	TWA	15 mg/m ³	

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.

9	PHYSICAL AND CHEMICAL PROPERTIES
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Color: Black

Odor: Slightly plastic odor

Odor Threshold: No data available.
Physical State: Powder
pH: Not applicable
Melting Point: 110°C (230°F) (Approximate)
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: 1.2
Solubility in Water: Not soluble in water.
Solubility (Other): No data available.
Partition Coefficient (n-Octanol/water): Not applicable.
Autoignition Temperature: Not applicable.
Decomposition Temperature: No data available.
Volatile Organic Compounds (VOC): Not applicable.
Viscosity: Not applicable.
Explosive Properties: No data available

10	STABILITY AND REACTIVITY
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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:	Unidentified organic compounds
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Possibility of Hazardous Reactions: Will not occur.

11	TOXICOLOGICAL INFORMATION
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Specified Substance(s)

Acute Toxicity:

Chemical Name	Test Results
Carbon black	Dermal LC50 (Rabbit): >3000 mg/kg
Carbon black	Oral LD50 (Rat): >15400 mg/kg

Chronic Toxicity: Inhalation of airborne titanium dioxide dust may cause cancer. 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
Titanium dioxide	2B	Not Listed	Not Listed	A4

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: No test data available for the product.

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: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Mobility: The product is insoluble in water.

Persistence and Degradability: No data available.

Bioaccumulation Potential: No data available.

13 DISPOSAL CONSIDERATIONS

General Information: Dispose of waste and residues in accordance with local authority requirements.

Disposal Methods: Do not discharge into drains or the environment, dispose to an authorized waste collection point.

14 TRANSPORT INFORMATION

DOT Not regulated.

TDG Not regulated.

IATA Not regulated.

IMDG Not regulated.

15	REGULATORY INFORMATION
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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: Exempt (manufactured article).

Mexican Dangerous Statement: This product is dangerous according to Mexican regulations.

Inventory Status

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

This product or one or more component(s) are not listed on the following inventory: DSL

US Regulations

CERCLA Hazardous Substance List (40 CFR 302.4): Not regulated.

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: Not regulated.

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): Not regulated.

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

Michigan Critical Materials List (Michigan Natural Resources and Environmental Protection Act (Act. 451 of 1994)): Not regulated.

Minnesota Hazardous Substances List: Carbon black

New Jersey Right-To-Know List: Carbon black

Pennsylvania Right-To-Know List: Carbon black

Rhode Island Right-To-Know List: Carbon black

16	OTHER INFORMATION
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HAZARD RATINGS

	Health Hazard	Fire Hazard	Instability	Special Hazard
NFPA	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
HMIS	1	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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