



# SAFETY DATA SHEET

## 1. Identification of the substance or mixture and of the supplier

<b>Important information</b>	*** This Safety Data Sheet is only authorised for use by HP for HP Original products. Any unauthorised use of this Safety Data Sheet is strictly prohibited and may result in legal action being taken by HP. ***
<b>1.1 GHS product identifier</b>	MLT-R116
<b>1.2 Other means of identification</b>	Not available.
<b>1.3 Recommendations and restrictions on the use of substances or mixtures</b>	
<b>Recommended use</b>	This product is an imaging drum that is used in LaserJet MFP M436n, LaserJet MFP M436nda series printers.
<b>Recommended restrictions</b>	Not available.
<b>1.4 Supplier's details</b>	
	HP Inc (Thailand) Ltd. 968 U Chu Liang Building, 3rd Floor, Rama IV Rd., Silom, Bangrak, BKK 10500 Bangkok, Bangkok, Thailand 10500
<b>Telephone</b>	66 2353 0888
<b>Main Fax</b>	66 2353 9555
<b>HP Inc. health effects line</b>	
<b>(Toll-free within the US)</b>	1-800-457-4209
<b>(Direct)</b>	1-760-710-0048
<b>HP Inc. Customer Care Line</b>	
<b>(Toll-free within the US)</b>	1-800-474-6836
<b>(Direct)</b>	1-208-323-2551
<b>Email:</b>	hpcustomer.inquiries@hp.com

## 2. Hazards identification

<b>2.1 GHS classification of substance or mixture, and national or regional information</b>	
<b>Physical hazards</b>	Not classified.
<b>Health hazards</b>	Not classified.
<b>Environmental hazards</b>	Not classified.
<b>2.2 GHS label elements</b>	
<b>Hazard symbol(s)</b>	None.
<b>Signal word</b>	None.
<b>Hazard statement(s)</b>	Not available.
<b>Precautionary statement(s)</b>	Not available.
<b>2.3 Other hazards which do not result in GHS classification</b>	Carbon black is classified by the IARC as a Group 2B carcinogen (the substance is possibly carcinogenic to humans). Carbon black in this preparation, due to its bound form, does not present this carcinogenic risk. None of the other ingredients in this preparation are classified as carcinogens according to ACGIH, EU, IARC, MAK, NTP or OSHA.
<b>Supplemental information</b>	None.

## 3. Composition/information on ingredients

### 3.2 Mixture

Chemical identity	Common name and synonym	CAS number and other unique identifiers	Concentration or concentration range
Ceramic materials		66402-68-4	<95
Polyester resin	Polyester resin	Trade Secret	<10
Coating materials		Trade Secret	<3

Chemical identity	Common name and synonym	CAS number and other unique identifiers	Concentration or concentration range
Black Pigment*		Proprietary*	<1

## 4. First-aid measures

### 4.1 Description of first-aid measures

<b>Inhalation</b>	Move person to fresh air immediately. If irritation persists, consult a physician.
<b>Skin contact</b>	Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation develops or persists.
<b>Eye contact</b>	Do not rub eyes. Immediately flush with large amounts of clean, warm water (low pressure) for at least 15 minutes or until particles are removed. If irritation persists, consult a physician.
<b>Ingestion</b>	Rinse mouth with water. Drink one to two glasses of water. If symptoms occur, consult a physician.

### 4.2 Most important symptoms/effects, acute and delayed

Difficulty in breathing. Coughing.

### 4.3 Indication of immediate medical considerations and important specific treatment that should be performed

Not available.

## 5. Fire-fighting measures

### 5.1 Prohibited extinguishing media and suitable extinguishing media

<b>Suitable extinguishing media</b>	CO2, water, or dry chemical
<b>Unsuitable extinguishing media</b>	None known.

### 5.2 Specific hazards arising from chemicals

Like most organic material in powder form, toner can form explosive dust-air mixtures when finely dispersed in air.

### 5.3 Special protective equipment and precautions for fire-fighters

Wear self-contained breathing apparatus and protective clothing. Wear full set of protective equipment including chemical goggles and gloves.

### Fire fighting equipment/instructions

If fire occurs in the printer, treat as an electrical fire.

### Specific methods

None established.

## 6. Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Avoid inhalation of dust. Wash thoroughly after dealing with a spillage. See Section 8 of the SDS for Personal Protective Equipment. Ensure adequate ventilation.

### 6.2 Environmental precautions

Not available.

### 6.3 Methods and materials for containment and cleaning up

Slowly vacuum or sweep the material into a bag or other sealed container. Clean remainder with a damp cloth or vacuum cleaner. If a vacuum is used, the motor must be rated as dust explosion-proof. Fine powder can form explosive dust-air mixtures. Dispose of in compliance with federal, state, and local regulations.

## 7. Handling and storage

### 7.1 Precautions for safe handling, use and storage

Keep out of the reach of children. Avoid inhalation of dust and contact with skin and eyes. Use with adequate ventilation. Keep away from excessive heat, sparks, and open flames.

### 7.2 Conditions for safe storage, including any incompatibilities

Keep out of the reach of children. Keep tightly closed and dry. Store at room temperature. Store away from strong oxidizers.

## 8. Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

#### US. ACGIH Threshold Limit Values Components

Components	Type	Value	Form
Black Pigment	TWA	3 mg/m3	Inhalable fraction.

#### Biological limit values

No biological exposure limits noted for the ingredient(s).

### 8.2 Appropriate engineering controls

Use in a well ventilated area.

### 8.3 Personal protective measures

<b>Eye/face protection</b>	Wear safety glasses with side shields (or goggles).
<b>Skin protection</b>	
<b>Hand protection</b>	Rubber gloves are recommended. Wash hands after handling.
<b>Other</b>	Protection suit must be worn.
<b>Respiratory protection</b>	No personal respiratory protective equipment required under normal conditions of use.
<b>Thermal hazards</b>	Not available.

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## 9. Physical and chemical properties

<b>9.1 Appearance</b>	Fine powder
<b>Physical state</b>	Solid.
<b>Form</b>	solid
<b>Color</b>	Black.
<b>9.2 Odor</b>	Odorless
<b>9.3 Odor threshold limit</b>	Not available.
<b>9.4 pH</b>	Not applicable
<b>9.5 Melting point/freezing point</b>	Not available.
<b>9.6 Initial boiling point and boiling range</b>	Not applicable
<b>9.7 Flash point</b>	Not applicable
<b>9.8 Evaporation rate</b>	Not available.
<b>9.9 Flammability (solid, gas)</b>	Not available.
<b>9.10 Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	Not flammable
<b>Flammability limit - upper (%)</b>	Not available.
<b>Explosive limit - lower (%)</b>	Not available.
<b>Explosive limit - upper (%)</b>	Not available.
<b>9.11 Vapor pressure</b>	Not applicable
<b>9.12 Vapor density</b>	Not applicable
<b>9.14 Solubility(ies)</b>	
<b>Solubility (water)</b>	Not available.
<b>9.15 Partition coefficient: n-octanol/water</b>	Not available.
<b>9.16 Auto-ignition temperature</b>	No data available
<b>9.17 Decomposition temperature</b>	> 392 °F (> 200 °C)
<b>9.18 Viscosity</b>	Not applicable
<b>Other information</b>	Not available.
<b>Oxidizing properties</b>	No information available.
<b>Percent volatile</b>	0 %
<b>Specific gravity</b>	4.4 g/ml

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## 10. Stability and reactivity

<b>10.1 Reactivity</b>	Not available.
<b>10.2 Chemical stability</b>	Stable under normal storage conditions.
<b>10.3 Possibility of hazardous reactions</b>	Will occur.
<b>10.4 Conditions to avoid</b>	Heat, sparks, flames. Sunlight. Avoid dust close to ignition sources.
<b>10.5 Incompatible materials</b>	Strong oxidizers, Strong acids.
<b>10.6 Hazardous decomposition products</b>	Carbon monoxide and carbon dioxide.

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## 11. Toxicological information

### 11.1 Information on likely routes of exposure

<b>Inhalation</b>	Under normal conditions of intended use, this material is not expected to be an inhalation hazard.
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**Skin contact** Contact with skin may result in mild irritation.  
**Eye contact** Contact with eyes may result in mild irritation.  
**Ingestion** Ingestion is not a likely route of exposure.

**11.2 Symptoms related to physical, chemical and toxicological characteristics** Not available.

**11.3 Delayed and immediate effects, including chronic effects from short- and long-term exposure** Not available.

**11.4 Numerical values of toxicity**

**Acute toxicity** Based on available data, the classification criteria are not met.  
 LD50/oral/rat >5000 mg/kg

Components	Species	Test Results
Black Pigment		
<b>Acute</b>		
<b>Oral</b>		
LD50	Rat	> 10000 mg/kg
Ceramic materials (CAS 66402-68-4)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	> 2500 mg/kg
<b>Inhalation</b>		
LC50	Rat	> 2.3 mg/l, 4 Hours > 0.888 mg/l
<b>Oral</b>		
LD50	Rat	> 2000 mg/kg

**Skin corrosion/irritation** Based on available data, the classification criteria are not met.  
 Not irritant in rabbit (OECD 404)

**Serious eye damage/eye irritation** Based on available data, the classification criteria are not met.  
 Not irritant in rabbit (OECD 405)

**Respiratory or skin sensitization**

**Respiratory sensitization** Based on available data, the classification criteria are not met.

**Skin sensitization** Based on available data, the classification criteria are not met.

**Germ cell mutagenicity** Negative, does not indicate mutagenic potential (Ames Test: Salmonella typhimurium)  
 Based on available data, the classification criteria are not met.

**Carcinogenicity** Based on available data, the classification criteria are not met.

Carbon black is classified as a carcinogen by the IARC (possibly carcinogenic to humans, Group 2B) and by the State of California under Proposition 65. In their evaluations of carbon black, both organizations indicate that exposure to carbon black, per se, does not occur when it remains bound within a product matrix, specifically, rubber, ink, or paint. Carbon black is present only in a bound form in this preparation.

**ACGIH Carcinogens**

Black Pigment (CAS Proprietary) A3 Confirmed animal carcinogen with unknown relevance to humans.

**IARC. Monographs on the evaluation of carcinogenic risks to humans**

Black Pigment (CAS Proprietary) 2B Possibly carcinogenic to humans.

**Reproductive toxicity** Based on available data, the classification criteria are not met.

**Specific target organ toxicity - single exposure** Based on available data, the classification criteria are not met.

**Specific target organ toxicity - repeated exposure** Based on available data, the classification criteria are not met.

**Aspiration hazard** Based on available data, the classification criteria are not met.

**Further information**

Complete toxicity data are not available for this specific formulation

Refer to Section 2 for potential health effects and Section 4 for first aid measures.

In a study in rats (H.Muhle) by chronic inhalation exposure to a typical toner, a mild to moderate degree of lung fibrosis was observed in 92% of the rats in the concentration(16mg/m3) exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animals in the middle (4mg/m3) exposure group. But no pulmonary changes was reported in the lowest (1mg/m3) exposure group, the most relevant level to potential human exposures.

**12. Ecological information**

**12.1 Ecological toxicity** Not available.

Components		Species	Test Results
Ceramic materials (CAS 66402-68-4)			
<b>Aquatic</b>			
<i>Acute</i>			
Algae	ErC50	Algae	184.6 mg/l, 72 h
Crustacea	EC50	Invertebrates (Invertebrates)	1.9 mg/l, 48 h
Fish	LC50	Fish	457 mg/l, 96 h
<i>Chronic</i>			
Fish	EC50	Fish	0.151 mg/l, 7 d
	LC50	Fish	1.94 mg/l, 16 d

**12.2 Persistence and degradability** Not available.

**12.3 Bioaccumulative potential** Not available.

**12.4 Mobility in soil** Not available.

**12.5 Other adverse effects** This product has not been tested for ecological effects.

**13. Disposal considerations**

**Disposal instructions** Dispose of in compliance with federal, state, and local regulations. Do not shred toner cartridge, unless dust-explosion prevention measures are taken. Do not put toner container into fire; heated toner may cause severe burns. Do not incinerate. Do not allow this material to drain into sewers/water supplies.

HP's Planet Partners (trademark) supplies recycling program enables simple, convenient recycling of HP original inkjet and LaserJet supplies. For more information and to determine if this service is available in your location, please visit <http://www.hp.com/recycle>.

**Local disposal regulations** Not available.

**Waste from residues / unused products** Not available.

**Contaminated packaging** Not available.

**14. Transport information****DOT**

Not regulated as dangerous goods.

**IATA**

Not regulated as dangerous goods.

**IMDG**

Not regulated as dangerous goods.

**ADR**

Not regulated as dangerous goods.

**Further information** Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.

**15. Regulatory information**

**Safety, health and environmental regulation/legislation specific for the substance or mixture**

**Hazardous substances in the work place (DLPW Notification Re: List of Hazardous Chemicals, Royal Gazette, Vol. 130 Part 185 Ngor, issued December 20, B.E.2556 (2013))**

Not listed.

**Thailand. Explosive Substances & Precursors (Ministry of Defense Notification Re: Arms Subject to Imports License)**

Not regulated.

**Thailand. Reportable Hazardous Substances (Notification of Ministry of Industry Re: Bases respecting report of quantity of hazardous materials under Department of Industrial Works, B.E. 2547)**

Not regulated.

**International regulations**

The components of this product are reported in the following inventories: China.

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**16. Other information, including date of preparation or last revision**

**Issue date** 02-May-2020

**Version #** 01

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This safety data sheet is meant to convey information about HP inks (toners) provided in HP Original ink (toner) supplies. If our Safety Data Sheet has been provided to you with a refilled, remanufactured, compatible or other non-HP Original supply please be aware that the information contained herein was not meant to convey information about such products and there could be considerable differences from information in this document and the safety information for the product you purchased. Please contact the seller of the refilled, remanufactured or compatible supplies for applicable information, including information on personal protective equipment, exposure risks and safe handling guidance. HP does not accept refilled, remanufactured or compatible supplies in our recycling programs.

**Revision information** 1. Product and Company Identification: Alternate Trade Names

**Explanation of abbreviations**

<b>ACGIH</b>	American Conference of Governmental Industrial Hygienists
<b>CAS</b>	Chemical Abstracts Service
<b>CERCLA</b>	Comprehensive Environmental Response Compensation and Liability Act
<b>CFR</b>	Code of Federal Regulations
<b>COC</b>	Cleveland Open Cup
<b>DOT</b>	Department of Transportation
<b>EPCRA</b>	Emergency Planning and Community Right-to-Know Act (aka SARA)
<b>IARC</b>	International Agency for Research on Cancer
<b>NIOSH</b>	National Institute for Occupational Safety and Health
<b>NTP</b>	National Toxicology Program
<b>OSHA</b>	Occupational Safety and Health Administration
<b>PEL</b>	Permissible Exposure Limit
<b>RCRA</b>	Resource Conservation and Recovery Act
<b>REC</b>	Recommended
<b>REL</b>	Recommended Exposure Limit
<b>SARA</b>	Superfund Amendments and Reauthorization Act of 1986
<b>STEL</b>	Short-Term Exposure Limit
<b>TCLP</b>	Toxicity Characteristics Leaching Procedure
<b>TLV</b>	Threshold Limit Value
<b>TSCA</b>	Toxic Substances Control Act
<b>VOC</b>	Volatile Organic Compounds