

# MATERIAL SAFETY DATA SHEET

# 1. Product and Company Identification

Identification of the

preparation

HP LaserJet CE390A-X-XC-XD Print Cartridge

**Product use**This product is a toner preparation that is used in HP LaserJet Enterprise M4555 MFP, 600 M601

600 M602, 600 M603 series printers.

Version # 05

**Revision date** 07-Aug-2012

**Company identification** Hewlett-Packard Company

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**United States** 

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# 2. Hazards Identification

Acute health effects

Skin contactUnlikely to cause skin irritation.Eye contactMay cause transient slight irritation

Inhalation Minimal respiratory tract irritation may occur with exposure to large amounts of toner dust.Ingestion Low acute toxicity. Ingestion is a minor route of entry for intended use of this product.

**Potential health effects** 

**Routes of exposure** Potential routes of exposure under normal use conditions are skin, eye contact and inhalation.

Ingestion is not expected to be a primary route of exposure for this product under normal use

conditions.

**Chronic health effects** Prolonged inhalation of excessive amounts of any dust may cause lung damage. Use of this

product as intended does not result in inhalation of excessive amounts of dust.

**Carcinogenicity** None of the ingredients have been classified as carcinogens according to EU, IARC, MAK, NTP,

OSHA or ACGIH.

**Other information**This product is not classified as hazardous according to OSHA CFR 1910.1200 or EU Directive

1999/45/EC, as amended.

This preparation contains no component classified as Persistent, Bioaccumulative, and Toxic (PBT) or very Persistent and very Bioaccumulative (vPvB) as defined under Regulation (EC)

1907/2006.

# 3. Composition / Information on Ingredients

Components	CAS#	Percent
Polyester resin	Trade Secret	< 55
Iron oxide	1317-61-9	< 50
Amorphous silica	7631-86-9	< 3

# 4. First Aid Measures

#### First aid procedures

**Eye contact**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.

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MSDS US

**Skin contact** Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation

develops or persists.

**Inhalation** Move person to fresh air immediately. If irritation persists, consult a physician.

**Ingestion** Rinse mouth with water. Drink one to two glasses of water. If symptoms occur, consult a

physician.

**General advice** No additional information

# 5. Fire Fighting Measures

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

dispersed in air.

**Extinguishing media** 

Suitable extinguishing

media

CO2, water, or dry chemical

**Unsuitable extinguishing** 

media

None known.

**Protection of firefighters** 

Protective equipment and precautions for firefighters

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

**Specific methods** None established.

**Hazardous combustion** 

products

Carbon monoxide and carbon dioxide.

## 6. Accidental Release Measures

**Personal precautions** Minimize dust generation and accumulation.

**Environmental precautions** Do not flush into surface water or sanitary sewer system. See also section 13 Disposal

considerations.

**Other information** Slowly vacuum or sweep the material into a bag or other sealed container. If a vacuum is used,

the motor must be rated as dust explosion-proof. Clean remainder with a damp cloth or vacuum cleaner. Fine powder can form explosive dust-air mixtures. Dispose of in compliance with federal,

state, and local regulations.

# 7. Handling and Storage

**Handling** 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.

**Storage** Keep out of the reach of children. Store at room temperature. Keep tightly closed and dry. Store

away from strong oxidizers.

# 8. Exposure Controls / Personal Protection

**Exposure guidelines** USA OSHA (TWA/PEL): 15 mg/m3 (Total Dust), 5 mg/m3 (Respirable Fraction)

ACGIH (TWA/TLV): 10 mg/m3 (Inhalable Particulate), 3 mg/m3 (Respirable Particulate)

Amorphous silica: USA OSHA (TWA/PEL): 20 mppcf 80 (mg/m3)/%SiO2, ACGIH (TWA/TLV): 10

mg/m3

**Engineering controls** Use in a well ventilated area.

**Personal protective equipment** 

**General** No personal respiratory protective equipment required under normal conditions of use.

# 9. Physical & Chemical Properties

**Appearance** Fine powder

Color Black.

Odor Slight plastic odor Odor threshold Not available.

Physical state Solid Form solid

**pH** Not applicable

Material name: CE390A-X-XC-XD

**Melting point** Not available. Freezing point Not available. **Boiling point** Not applicable Flash point Not applicable **Evaporation rate** Not available. Flammability limits in air, Not available.

upper, % by volume

Flammability limits in air,

lower, % by volume

Not flammable

Not applicable Vapor pressure Vapor density Not available.

Specific gravity 1.4 - 1.8 (H2O = 1)

Relative density Not available.

Solubility (water) Negligible in water. Partially soluble in toluene and xylene.

**Auto-ignition temperature** No data available **Decomposition temperature** > 392 °F (> 200 °C) Softening point 212 - 302 °F (100 - 150 °C)

**Viscosity** Not applicable **Percent volatile** Negligible VOC Not applicable

Other information Decomposition temperature: > 200 ° C

# 10. Chemical Stability & Reactivity Information

Chemical stability Stable under normal storage conditions. Conditions to avoid Imaging Drum: Exposure to light

**Incompatible materials** 

**Hazardous decomposition** 

Carbon monoxide and carbon dioxide.

Possibility of hazardous

reactions

products

Will not occur.

Strong oxidizers

# 11. Toxicological Information

**Oral toxicity** LD50/oral/rat >2000 mg/kg; Not harmful. (OECD 401). Not classified for acute oral toxicity

according to EU Directive 67/548/EEC and 1999/45/EC.

Carcinogenicity Not a known or suspected carcinogen according to any IARC Monograph, NTP, OSHA

Regulations (USA), EU Directive, or Proposition 65 (California).

Inhalation toxicity No information available.

Not classified for acute inhalation toxicity according to EU Directive 67/548/EEC and

1999/45/EC.

Serious eye damage/eye

irritation

Not classified as irritant, according to OSHA Hazard Communication Standard (HCS) and EU

Directive 67/548/EEC and as amended.

**Chronic toxicity** No information available.

**Sensitization** Not classified as a sensitizer according to EU Directive 67/548/EEC and as amended, and OSHA

HCS (US).

Mutagenicity Negative, does not indicate mutagenic potential (Ames Test: Salmonella typhimurium)

Reproductivity Not classified as toxic according to EU Directive 67/548/EEC and as amended, California Prop. 65,

and DFG (Germany).

**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.

# 12. Ecological Information

**Ecotoxicity** LL50: > 1000 mg/l, Fish, 96.00 Hours

Persistence and degradability Not available.

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# 13. Disposal Considerations

## **Disposal instructions**

Do not shred toner cartridge, unless dust-explosion prevention measures are taken. Finely dispersed particles may form explosive mixtures in air. Dispose of in compliance with federal, state, and local regulations.

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.

# 14. Transport Information

#### **Further information**

19 or more of these cartridges shipped together in a single package (e.g., box, container), by air, are regulated as a magnetized material. These requirements do not apply to single or dual pack cartridges contained in an original HP package and shrink wrapped on a pallet for shipment by air.

### DOT

Not regulated as dangerous goods.

#### **IATA**

## **Basic shipping requirements:**

Proper shipping name

Magnetized Material

**UN number** 2807

Not regulated as dangerous goods.

## **RID**

Not regulated as dangerous goods.

# 15. Regulatory Information

**US federal regulations** 

US EPA TSCA Inventory: All chemical substances in this product comply with all rules or orders

#### **CERCLA (Superfund) reportable quantity**

## Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical

No

# Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories** Immediate Hazard - No

> Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

Section 302 extremely hazardous substance

No

Section 311 hazardous

chemical

Nο

#### **Regulatory information**

All chemical substances in this HP product have been notified or are exempt from notification under chemical substances notification laws in the following countries: US (TSCA), EU (EINECS/ELINCS), Switzerland, Canada (DSL/NDSL), Australia, Japan, Philippines, South Korea, New Zealand, and China.

# 16. Other Information

Other information This MSDS was prepared in accordance with USA OSHA Hazard Communications regulation (29

CFR 1910.1200).

**HMIS®** ratings Health: 1

> Flammability: 1 Physical hazard: 0

NFPA ratings Health: 1

Flammability: 1 Instability: 0

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12499 Version #: 05 Revision date: 07-Aug-2012 Print date: 07-Aug-2012

**Disclaimer** This [Material] Safety Data Sheet is provided without charge to customers of Hewlett-Packarc

Company. Data is the most current known to Hewlett-Packard Company at the time of preparation of this (M)SDS and is believed to be accurate. It should not be construed as guaranteeing specific

properties of the products as described or suitability for a particular application.

**Issue date** 07-Aug-2012

Manufacturer information Hewlett-Packard Company

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# **Explanation of abbreviations**

ACGIH American Conference of Governmental Industrial Hygienists

**CAS** Chemical Abstracts Service

CERCLA Comprehensive Environmental Response Compensation and Liability Act

**CFR** Code of Federal Regulations

COC Cleveland Open Cup

**DOT** Department of Transportation

EPCRA Emergency Planning and Community Right-to-Know Act (aka SARA)

IARC International Agency for Research on Cancer

NIOSH National Institute for Occupational Safety and Health

NTP National Toxicology Program

OSHA Occupational Safety and Health Administration

**PEL** Permissible Exposure Limit

**RCRA** Resource Conservation and Recovery Act

**REC** Recommended

**REL** Recommended Exposure Limit

SARA Superfund Amendments and Reauthorization Act of 1986

**STEL** Short-Term Exposure Limit

**TCLP** Toxicity Characteristics Leaching Procedure

**TLV** Threshold Limit Value

TSCA Toxic Substances Control Act
VOC Volatile Organic Compounds

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