

1. Chemical Product and Company Identification

Identification of the

preparation

HP Color LaserJet Q6470A Black Print Cartridge

Use of the preparation This product is a black toner preparation that is used in HP Color LaserJet 3505/3600/3800

series printers.

Manufacturer information **Hewlett-Packard Company**

> 11311 Chinden Boulevard Boise, ID 83714 USA

Hewlett-Packard health effects line

(Toll-free within the US) 1-800-457-4209 (Direct) 1-503-494-7199

General information telephone number

HP Customer Care Line 1-800-474-6836 1-800-474-6836 (Toll-free) (Direct) 1-208-323-2551 **Date prepared** May 22, 2007 **MSDS** number 194127

2. Composition / Information on Ingredients

CAS number	% by weight	
Trade Secret	75 - 85	
Trade Secret	5 - 15	
1333-86-4	1 - 6	
7631-86-9	1 - 2	
	Trade Secret Trade Secret 1333-86-4	Trade Secret 75 - 85 Trade Secret 5 - 15 1333-86-4 1 - 6

3. Hazards Identification

Acute health effects

Skin contact Unlikely to cause skin irritation. Eye contact May 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 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.

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

1999/45/EC, and as amended.

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4. First Aid Measures

First aid procedures

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

develops or persists.

Eye 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.

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

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

physician.

5. Fire Fighting Measures

Flash point and method Not applicable **Auto ignition temperature** Not applicable

Hazardous combustion

products

Carbon monoxide and carbon dioxide.

Extinguishing media CO2, water, or dry chemical

Unsuitable extinguishing

media

None known.

Unusual fire and explosion

hazard

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

finely dispersed in air.

Fire fighting

equipment/instructions

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

Special firefighting

procedures

None established.

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.

Procedures if material is released or spilled

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

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.

Keep out of the reach of children. Store at room temperature in the original container. Keep **Storage**

the container tightly closed and dry. Store away from strong oxidizers.

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8. Exposure Controls/Personal Protection

Exposure limit values 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

ACGIH - Threshold Limits Values - Time Weighted Averages (TLV-TWA)

Carbon black 1333-86-4 3.5 mg/m3 TWA

OSHA - Final PELs - Time Weighted Averages (TWAs)

Carbon black 1333-86-4 3.5 mg/m3 TWA

Personal protective equipment

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

Exposure guidelines Use in a well ventilated area.

9. Physical & Chemical Properties

pH Not applicableVapor pressure Not applicableBoiling point Not applicable

Softening point 212 - 302 °F (100 - 150 °C)

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

Specific gravity 1 - 1.2 (H2O = 1)

Flash point Not applicable

Viscosity Not applicable

Vapor density Not applicable

Evaporation rate Not applicable

Flammability Not flammable

Appearance Fine powder

Form solid

Odor Slight plastic odor

Oxidizing propertiesNo information available.

Other information Decomposition temperature: > 200 ° C

Color Black

10. Chemical Stability & Reactivity Information

Stability Stable under normal storage conditions.

Conditions to avoid Imaging Drum: Exposure to light

Hazardous polymerization Will not occur.

Hazardous decomposition

products

Carbon monoxide and carbon dioxide.

Incompatibility Strong oxidizers

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11. Toxicological Information

Complete toxicity data are not available for this specific formulation

Refer to Section 3 for potential health effects and Section 4 for first aid measures.

Dermal irritationNot classified as irritant, according to OSHA Hazard Communication Standard (HCS) and EU

Directive 67/548/EEC and as amended.

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

Directive 67/548/EEC and as amended.

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

OSHA HCS (US).

Chronic toxicity No information available.

Oral toxicity LD50/oral/rat >2000 mg/kg, (OECD 401), Not harmful.

Not classified for acute oral toxicity according to EU Directive 67/548/EEC and 1999/45/EC.

Inhalation toxicity No information available.

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

1999/45/EC.

Carcinogenicity 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. None of the other ingredients in this preparation are classified as carcinogens according to ACGIH, EU, IARC, MAK, NTP or OSHA.

OSHA - Hazard Communication Carcinogens

Carbon black 1333-86-4 Present

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

Reproductive toxicityNot classified as toxic according to EU Directive 67/548/EEC and as amended, California Prop.

65, and DFG (Germany).

Symptoms and target organs

NIOSH - Pocket Guide - Target Organs

Amorphous silica 7631-86-9 respiratory system, eyes

NIOSH - Pocket Guide - Target Organs

Carbon black 1333-86-4 respiratory system, eyes (lymphatic cancer in presence of PAHs)

12. ECOLOGICAL INFORMATION

Other information This product has not been tested for ecological effects.

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. Transportation Information

General Not a regulated article under United States DOT, IATA, ADR, IMDG, or RID.

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15. Regulatory Information

International regulations 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.

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

orders under TSCA.

US TSCA 12(b): Contains p-Xylene (CAS No. 106-42-3), subject to export notification

requirements.

HMIS ratings Health: 1

Flammability: 1 0 Physical hazard: 1 Health:

NFPA ratings Flammability: 1

Instability:

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Section 302 extremely hazardous substance

Section 311 hazardous

chemical

Nο

Hazard categories Immediate Hazard - No

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

16. Other Information

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

(29 CFR 1910.1200).

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Revision

Replaces sheet dated Feb 21 2007 5:21PM

Disclaimer This Safety Data Sheet document is provided without charge to customers of Hewlett-Packard

> Company. Data is the most current known to Hewlett-Packard Company at the time of preparation of this document 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. This document was prepared to the requirements of the jurisdiction specified in

Section 1 above and may not meet regulatory requirements in other countries.

MSDS sections updated 1. Chemical Product and Company Identification: Use of the preparation

3. Hazards Identification: Routes of exposure 3. Hazards Identification: Carcinogenicity

8. Exposure Controls/Personal Protection: Exposure limit values

Physical & Chemical Properties: Material Properties 9. Physical & Chemical Properties: Other information 11. Toxicological Information: Carcinogenicity 13. Disposal Considerations: Disposal instructions

Transportation Information: Material Transportation Information

15. Regulatory Information: State regulations



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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