

Material Safety Data Sheet

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name CE312A

Product useThis product is a yellow toner preparation that is used in HP Color LaserJet Pro CP1025 and HF

LaserJet Pro 100 Color MFP, HP LaserJet Pro 200 Color MFP series printers.

Company identification 7 Goban-cho

Chiyoda-ku Tokyo 102-0076

Japan

Telephone (+81) 3 5463-6600

Hewlett-Packard health effects line (Toll-free within the US) 1-800-457-4209

(Direct) 1-503-494-7199 HP Customer Care Line

(Toll-free within the US) 1-800-474-6836

(Direct) 1-208-323-2551

Email: hpcustomer.inquiries@hp.com

Poison Information Centre telephone number 0120-50-3024

2. HAZARDS IDENTIFICATION

Acute health effects

Skin contactUnlikely 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.

Use of this product as intended does not result in inhalation of excessive amounts of 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 and 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 Titanium dioxide is classified by the IARC as a Group 2B carcinogen (the substance is possibly

carcinogenic to humans). The IARC classification was based on high concentrations of titanium dioxide particles in animal lungs. Under intended use of this toner product, exposure to

titanium dioxide is much lower.

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.

Classification Not classified.

Physical hazardsNot classified as a physical hazard. **Health hazards**Not classified as a health hazard.

Environmental hazards Not classified as an environmental hazard.

3. COMPOSITION/INFORMATION ON INGREDIENTS

51 COTTI COLLIA TON ON INTERNATION		
Components	CAS #	Percent
Styrene acrylate copolymer	Trade secret	< 85
Wax	Trade secret	< 10
Pigment	Trade secret	< 5
Amorphous silica	7631-86-9	< 3
Titanium dioxide	13463-67-7	< 1

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4. FIRST AID MEASURES

In case of inhalation Move person to fresh air immediately. If irritation persists, consult a physician.

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

develops or persists.

Do not rub eyes. Immediately flush with large amounts of clean, warm water (low pressure) for at **Eve contact**

least 15 minutes or until particles are removed. 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 Not applicable

Extinguishing media CO2, water, or dry chemical

Extinguishing media to avoid

None known. **Unusual fire & explosion**

hazards

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

dispersed in air.

Special fire fighting

procedures

None established.

Protection of fire-fighters

Hazardous combustion

products

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

Carbon monoxide and carbon dioxide.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency measures

Minimise dust generation and accumulation.

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

considerations.

Clean-up methods and materials and containment

measures

Not available.

Other information 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

Technical measures

Local and general

Not available. Not available.

ventilation

Not available.

Precautions

Safe handling advice

Not available.

Storage

Technical measures

Not available.

Suitable storage conditions

Not available.

Safe packaging materials

Not available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits

Japan OELs - JSOH

Components	Туре	Value	Form
Titanium dioxide (13463-67-7)	TWA	4.0000 mg/m3	Total dust.
		1.0000 mg/m3	Respirable dust.

A CCTU

ACGIH			
Components	Туре	Value	
Titanium dioxide (13463-67-7)	TWA	10.0000 mg/m3	

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Additional exposure data 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 measures Use in a well ventilated area.

Personal protective equipment

Respiratory protectionNot available.Hand protectionNot available.Eye protectionNot available.Skin and body protectionNot available.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical stateSolidFormsolidColorYellow

OdorSlight plastic odorpHNot applicableMelting point/Freezing pointNot available.Boiling point, initial boilingNot applicable

point, and boiling range

пос аррисавіе

Flash point

Auto-ignition temperature

Flammability limit - lower (%)

Flammability limit - upper (%)

Not available.

Vapor pressure

Vapor density

Evaporation rate

Specific gravity

Not applicable

Not applicable

1 - 1.2 (H2O = 1)

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

Partition coefficient

(n-octanol/water)

Not available

Decomposition temperatureNot available.ViscosityNot applicable

Softening point 80 - 130 °C (176 - 266 °F)

Other data

Kinematic viscosity Not available.

Kinematic viscosity temp Not available.

Percent volatile 0 % estimated

Other information Decomposition temperature: > 200 ° C

10. STABILITY AND REACTIVITY

Stability Stable under normal storage conditions.

Possibility of hazardous

reactions

Will not occur.

Conditions to avoid Imaging Drum: Exposure to light

Incompatible materials Strong oxidizers

Hazardous decomposition

products

Carbon monoxide and carbon dioxide.

11. TOXICOLOGICAL INFORMATION

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

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

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CarcinogenicityTitanium dioxide is classified by the IARC as a Group 2B carcinogen (the substance is possibly

carcinogenic to humans). The IARC classification was based on high concentrations of titanium dioxide particles in animal lungs. Under intended use of this toner product, exposure to

titanium dioxide is much lower.

None of the other ingredients in this preparation are classified as carcinogens according to

ACGIH, EU, IARC, MAK, NTP or OSHA.

ACGIH Carcinogens

Titanium dioxide (CAS 13463-67-7)

A4 Not classifiable as a human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

Amorphous silica (CAS 7631-86-9) 3 Not classifiable as to carcinogenicity to humans.

Titanium dioxide (CAS 13463-67-7) 2B Possibly carcinogenic to humans.

IARC Monographs: Evidence of carcinogenicity in humans

Titanium dioxide (CAS 13463-67-7) Inadequate data.

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

1999/45/EC.

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 aide measures.

12. ECOLOGICAL INFORMATION

Ecotoxicological data

Product	Test Results
HP Color LaserJet CE312A Yellow Print Cartridge	LC50 Fish: > 100 mg/l 96.00 Hours
Components	Test Results
Titanium dioxide (13463-67-7)	EC50 Water flea (Daphnia magna): > 1000 mg/l 48.00 hours
	LC50 Mummichog (Fundulus heteroclitus): > 1000 mg/l 96.00 hours

Ecotoxicity LC50: > 100 mg/l, Fish, 96.00 Hours

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

13. DISPOSAL CONSIDERATIONS

Local disposal regulations 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 Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.

15. REGULATORY INFORMATION

Industrial Safety and Health Law

Substances subject to notification

Not regulated.

Poisonous and Deleterious Substances Control Law

Deleterious substances

Not regulated.

Poisonous substances

Not regulated.

Specified poisonous substances

Not regulated.

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PRTR and Promotion of Chemical Management Law, old regulated substances (Cabinet Order No. 328, 2004) Specified class 1 substances (substance name and PRTR no.)

Not regulated.

Class 1 substances (substance name and PRTR no.)

Not regulated.

Class 2 substances (substance name and PRTR no.)

Not regulated.

PRTR and Promotion of Chemical Management Law, new regulated substances (Cabinet Order No. 356, 2008)

Specified class 1 substances (substance name and PRTR no.)

Not regulated.

Class 1 substances (substance name and PRTR no.)

Not regulated.

Class 2 substances (substance name and PRTR no.)

Not regulated.

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).

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.

Version number 03

This data sheet contains changes from the previous version in section(s):

Product and Company Identification: Alternate Trade Names
CHEMICAL PRODUCT AND COMPANY IDENTIFICATION: Product use

 Issue date
 31-Oct-2011

 Revision date
 31-Oct-2011

Manufacturer information Hewlett-Packard Company

11311 Chinden Boulevard Boise, ID 83714 USA (Direct) 1-503-494-7199

(Toll-free within the US) 1-800-457-4209

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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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