



MATERIAL SAFETY DATA SHEET

1. Chemical product and company identification

Product name HP LaserJet C4092A Print Cartridge

Recommended use of the chemical and restrictions on use

Intended use This product is a toner preparation that is used in HP LaserJet 1100/1100A/3200/3220M series printers.

Company identification Hewlett-Packard Japan, Ltd.
2-2-1 Ojima, Koto-ku, Tokyo, 136-8711 Japan
Telephone (+81) 3 5628-1101

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 0120-50-3024

2. Hazards identification

Physical hazards Not classified as a physical hazard.

Health hazards Not classified as a health hazard.

Environmental hazards Not classified as an environmental hazard.

Other hazards None of the ingredients have been classified as carcinogens according to EU, IARC, MAK, NTP, OSHA or ACGIH.

3. Composition/information on ingredients

Substance or mixture Mixture

Components	CAS #	Percent
Iron oxide	1317-61-9	<50
Styrene acrylate copolymer	Trade Secret	<50

4. First aid measures

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

If on skin Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation develops or persists.

If in eyes 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.

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

Most important symptoms and effects No data available

5. Fire-fighting measures

Flash point Not applicable

Extinguishing media CO₂, water, or dry chemical

Extinguishing media to avoid None known.

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

Protection of fire-fighters No data available.

6. Accidental release measures

Personal precautions, protective equipment and emergency measures	Minimize 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.

7. Handling and storage

Handling

Technical measures	Not available.
Local and general ventilation	Not available.
Precautions	Not available.
Safe handling advice	Not available.

Storage

Technical measures	Not available.
Suitable storage conditions	Not available.
Incompatible products	No data.
Safe packaging materials	Not available.

8. Exposure controls/personal protection

Recommended monitoring procedures

Additional exposure data	USA OSHA (TWA/PEL): 15 mg/m ³ (Total Dust), 5 mg/m ³ (Respirable Fraction) ACGIH (TWA/TLV): 10 mg/m ³ (Inhalable Particulate), 3 mg/m ³ (Respirable Particulate)
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Engineering measures	Use in a well ventilated area.
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Personal protective equipment

Respiratory protection	Not available.
Hand protection	Not available.
Eye protection	Not available.
Skin and body protection	Not available.
General	No personal respiratory protective equipment required under normal conditions of use.

9. Physical and chemical properties

Appearance

Physical state	Solid.
Form	solid
Color	Black.

Odor	Slight plastic odor
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Odor threshold	No information available.
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pH	Not applicable
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Melting point/Freezing point	Not available.
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Boiling point, initial boiling point, and boiling range	Not applicable
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Flash point	Not applicable
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Auto-ignition temperature	Not applicable
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Flammability limit - lower (%)	Not flammable
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Flammability limit - upper (%)	Not available.
Vapor pressure	Not applicable
Evaporation rate	Not applicable
Specific gravity	Not available.
Solubility	Negligible in water. Partially soluble in toluene and xylene.
Partition coefficient (n-octanol/water)	Not available.
Decomposition temperature	Not available.
Viscosity	Not applicable
Softening point	212 - 302 °F (100 - 150 °C)
Other data	
Oxidizing properties	No information available.
Percent volatile	0 % estimated

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

General information	Not available.
Information on likely routes of exposure	
Ingestion	Not available.
Inhalation	Not available.
Skin contact	Not available.
Eye contact	Not available.
Symptoms	Not available.
Acute toxicity	No data available.
Skin sensitizer	Not classified as irritant, according to OSHA Hazard Communication Standard (HCS) and EU Directive 67/548/EEC and as amended.
Germ cell mutagenicity	Negative, does not indicate mutagenic potential (Ames Test: Salmonella typhimurium)
Carcinogenicity	Not a known or suspected carcinogen according to any IARC Monograph, NTP, OSHA Regulations (USA), EU Directive, or Proposition 65 (California).
Toxic to reproduction	Not classified as toxic according to EU Directive 67/548/EEC and as amended, California Prop. 65, and DFG (Germany).
Specific target organ toxicity - single exposure	No data available.
Specific target organ toxicity - repeated exposure	No data available
Other 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

Ecotoxicological data		
Product	Species	Test Results
C4092A		
Aquatic		
Fish	LL50	Rainbow Trout
		> 1000 mg/l, 96 Hours

Ecotoxicity	LL50: > 1000 mg/l, Rainbow Trout, 96.00 Hours
Mobility in soil	No data available.

13. Disposal considerations

Contaminated packaging	No special precautions.
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

International regulations

IATA

Basic shipping requirements:

UN number	UN2807
Proper shipping name	Magnetized Materials
Environmental hazards	
Marine pollutant	Not regulated.

IMDG

Not regulated as dangerous goods.

ADR

Not regulated as dangerous goods.

15. Regulatory information

Industrial Safety and Health Act

Specified substances regulation

Class 1 designated chemical substances

Not regulated.

Class 2 designated chemical substances

Not regulated.

Class 3 designated chemical substances

Not regulated.

Organic solvent regulation

Class 1 organic solvents

Not regulated.

Class 2 organic solvents

Not regulated.

Class 3 organic solvents

Not regulated.

Notifiable substances

Not regulated.

Labeling substances

Not regulated.

Poisonous and Deleterious Substances Control Act

Specified poisonous substances

Not regulated.

Poisonous substances

Not regulated.

Deleterious substances

Not regulated.

Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.

Class I specified chemical substances

Not regulated.

Class II specified chemical substances

Not regulated.

Monitoring chemical substances

Not regulated.

Priority Assessment Chemical Substances (PACs)

Not regulated.

Reporting Exempted Substances

Triiron tetraoxide

Law concerning Pollutant Release and Transfer Register**Specified class 1 substances (substance name, ordinance number and content)**

Not regulated.

Class 1 substances (substance name, ordinance number and content)

Not regulated.

Class 2 substances (substance name, ordinance number and content)

Not regulated.

Fire Service Act

Not regulated.

Ship Safety Law, Dangerous Goods Marine Transport and Storage Rule

Not regulated.

Air Law, Enforcement Rule

Not regulated.

Explosives Control Act

Not regulated.

High Pressure Gas Safety Act

Not regulated.

Act on Prevention of Marine Pollution and Maritime Disaster

Not regulated.

Waste Management and Public Cleansing Act

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/NDL), Australia, Japan, Philippines, South Korea, New Zealand, and China.

16. Other information

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

01

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

Product and Company Identification: Synonyms
 Composition / Information on Ingredients: Ingredients
 Fire Fighting Measures: Fire & Explosion Properties
 Physical & Chemical Properties: Physical & Chemical Properties
 Ecological Information: Ecotoxicity
 Transport Information: Product Shipping Name/Packing Group
 15. Regulatory Information: United States

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Manufacturer information

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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