1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Identification of the preparation
HP LaserJet C3909A-X Print Cartridge

Use of the preparation
This product is a toner preparation that is used in HP LaserJet 5Si/5Si MX/5Si Mopier/8000/Mopier 240 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
(Toll-free) 1-800-474-6836
(Direct) 1-208-323-2551

Date prepared
Oct 10, 2005

MSDS number
79282

2. COMPOSITION / INFORMATION ON INGREDIENTS

Component/substance | CAS number | % by weight
--- | --- | ---
Styrene acrylate copolymer | Trade Secret | 45 - 55
Iron oxide | 1317-61-9 | 45 - 55

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 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
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, and as amended.

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.

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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.

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. Avoid breathing dust.

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.

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

8. EXPOSURE CONTROLS/PERSOANAL PROTECTION
Exposure limit values
USA OSHA (TWA/PEL): mg/m3 (Total Dust), 5 mg/m3 (Respirable Fraction)

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

TRGS 900 (Luftgrenzwert) - 10 mg/m3 (Einatembare partikel), 3 mg/m3 (Alveolengängige fraktion)

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 applicable

Vapor pressure
Not applicable

Boiling point
Not applicable

Melting point
100 - 150 °C (212.0 - 302.0 °F) Softening point

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Softening point 100 - 150 °C (212.0 - 302.0 °F)
Solubility Negligible in water. Partially soluble in toluene and xylene.
Specific gravity 1.5 - 1.8 (H2O = 1)
Flash point Not applicable
Viscosity Not applicable
Vapor density Not applicable
Flammability Not flammable
Appearance Fine powder
Form solid
Odor Slight plastic odor
Oxidizing properties No 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 Carbon monoxide and carbon dioxide.
products
Incompatibility Strong oxidizers

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 irritation Not 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 >5000 mg/kg, Not harmful. (OECD 401)
Carcinogenicity Not a known or suspected carcinogen according to any IARC Monograph, NTP, OSHA Regulations (USA), EU Directive, or Proposition 65 (California).
Mutagenicity Negative, does not indicate mutagenic potential (Ames Test: Salmonella typhimurium)
Reproductive toxicity Not classified as toxic according to EU Directive 67/548/EEC and as amended, California Prop. 65, and DFG (Germany).

12. ECOLOGICAL INFORMATION

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

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13. DISPOSAL CONSIDERATIONS

Disposal instructions
Do not shred print 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.

IATA
Proper shipping name
Not applicable
Special precautions
None
Packaging exceptions
None
Identification number (UN)
None
Packing group
N/A

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 federal regulations
US EPA TSCA Inventory: All chemical substances in this product comply with all rules or orders under TSCA.
US EPA TSCA 12(b): Contains p-Xylene (CAS No. 106-42-3), subject to export notification requirements.

State regulations
This product contains no chemical substances subject to rules or orders under California Proposition 65.

HMIS ratings
Health: 1
Flammability: 1
Physical hazard: 0

NFPA ratings
Health: 1
Flammability: 1
Instability: 0

Superfund Amendments and Reauthorization Act of 1986 (SARA)
Section 302 extremely hazardous substance
No
Section 311 hazardous chemical
No
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

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.

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
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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