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MSDS-3072

HP P/N C3903A

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Hewlett-Packard Company
Boise Division
Post Office Box 15
Boise, ID 83707-0015

Product Information Sheet
for Hewlett-Packard
LaserJet 5P/5MP Printer Supplies

Hewlett-Packard supplies for the HP LaserJet 5P/5MP printer are articles, for which a Material Safety Data Sheet is not required under federal law.

Hewlett-Packard receives many inquiries regarding the makeup of supplies used in the HP LaserJet family of printers. This information is provided upon request using the attached Material Safety Data Sheet (MSDS) format. The use of this format was selected in that it aids readers familiar with the MSDS format in quickly identifying desired information.

Information on the following HP LaserJet 5P/5MP printer supplies is available via this format:

Part No.	Description	Printer
C3903A	Toner Cartridge	5P & 5MP

May 1, 1995

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PRODUCT INFORMATION SHEET

Hewlett-Packard Company
 11311 Chinden Boulevard
 Boise, ID 83714
 Emergency Telephone Number: (208) 396-6000

Date of Preparation: January 21, 1995

PRODUCT IDENTIFICATION

PRODUCT NAME: HP Laser Jet Toner Cartridge C3903A
 PRODUCT NUMBER: C3903A

DESCRIPTION: An assembly for Laser Beam Printer, composed of a photosensitive drum, toner powder, a developer unit, a charger-roller and a cleaner blade. The toner powder cannot be removed, until the cartridge is forced to be broken.

INGREDIENTS OF TONER

Principle Components (CAS No.)	wt%	EC1)	OSHA2)	ACGIH 3)	DFG4)
Styrene acrylate copolymer	45-55	---	----	----	----
Iron oxide (1317-61-9)	45-55	---	----	----	----

---: Not designated.

HAZARDS IDENTIFICATION OF TONER**POTENTIAL HEALTH EFFECTS:**

INGESTION: Ingestion is not applicable route of entry for intended use.

INHALATION: Minimal respiratory tract irritation may occur as with exposure to large amounts of oily non-toxic dust.

EYE CONTACT: May cause eye irritation

SKIN CONTACT: Unlikely to cause skin irritation

FIRST AID MEASURES FOR TONER

INGESTION: Dilute stomach contents with several glasses of water.

INHALATION: Remove victim to fresh air.

EYE CONTACT: Flush with running water for at least 15 minutes.

SKIN CONTACT: Wash with soap and water.

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FIRE FIGHTING MEASURES FOR TONER

FLASH POINT (Method used): No data available
IGNITION TEMPERATURE: No data available
FLAMMABILITY: Non-flammable solid (According to test methods of USA
16 CFR 1500.44 and 84/449/EEC (Annex V) A.10.)
FLAMMABLE LIMITS: No data available
EXTINGUISHING MEDIA: CO₂, water, dry chemicals
SPECIAL FIRE FIGHTING PROCEDURES: None
UNUSUAL FIRE AND EXPLOSION HAZARDS: Toner material, like most organic material in powder form, is capable of creating a dust explosion.

ACCIDENTAL RELEASE MEASURES

No toner spillage occurs in normal operation or handling. If it should occur, avoid inhalation of the dust. Sweep material onto paper and carefully transfer to a sealable waste container.

HANDLING AND STORAGE

Keep out of reach of children.
Keep away from contact with oxidizing materials.

EXPOSURE CONTROLS/PERSONAL PROTECTION**EXPOSURE LIMITS FOR TONER:**

USA OSHA (TWA5)/PEL: 15 mg/m³ (Total dust)
5 mg/m³ (Respirable fraction)
ACGIH(TWA/TLV): 10 mg/m³ (Total dust)
DFG(MAK): 6 mg/m³ (Feinstaubkonzentration)

RESPIRATORY PROTECTION: Not required under intended use. Good general ventilation should be sufficient under intended use.

PROTECTIVE GLOVES: Not required under intended use.

EYE PROTECTION: Not required under intended use.

OTHER PROTECTIVE EQUIPMENT: Not required under intended use.

PHYSICAL AND CHEMICAL PROPERTIES OF TONER

BOILING POINT: Not applicable
MELTING POINT: 100 - 150 °C
VAPOR PRESSURE (mmhg.): Not applicable
VAPOR DENSITY (AIR-1): Not applicable
SOLUBILITY IN WATER: Negligible
SOLUBILITY IN ORGANIC SOLVENTS: Partially soluble in toluene and XYLENE
SPECIFIC GRAVITY (H₂O=1): 1.4 - 1.8
PERCENT VOLATILE BY VOLUME: Not applicable
EVAPORATION RATE (BUTYL ACETATE=1): Not applicable
PH: Not applicable
APPEARANCE AND ODOR: Black fine powder, slight plastic odor.

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STABILITY AND REACTIVITY OF TONER**STABILITY:** Stable**INCOMPATIBILITY:** Strong oxidizers**HAZARDOUS DECOMPOSITION PRODUCTS:**

Combustion will produce carbon dioxide and, possible toxic chemicals such as carbon monoxide.

HAZARDOUS POLYMERIZATION: Will not occur.**TOXICOLOGICAL INFORMATION ON TONER****ACUTE TOXICITY:****INGESTION:** LD50= >5000 mg/kg (rats)**EYE CONTACT:** Not classified as irritant, according to OSHA Hazard Communication Standard (HCS) and EC Directive 67/548/EEC based on test data of rabbits.**CHRONIC TOXICITY:** No data available**OTHER TOXICITY DATA:****MUTAGENICITY:** Negative (Ames Test: Salmonella typhimurium).**CARCINOGENICITY:**

No carcinogen or potential carcinogen, according to IARC Monographs(6), NTP(7), OSHA(USA), regulation and EU Directive.

ECOLOGICAL INFORMATION

No data are available as to its effects on the environment.

DISPOSAL CONSIDERATIONS

This product is constructed from plastics and metals. The waste toner could be considered as plastic waste. Disposal should be subject to federal, state or local laws.

TRANSPORT INFORMATION ON TONER**INTERNATIONAL TRANSPORT INFORMATION:****UN NO.:** None**HAZARDS CLASS:** None**PACKING GROUP:** None**SPECIAL PRECAUTIONS:** None**REGULATORY INFORMATION****CHEMICALS REQUIRED TO REPORT UNDER SARA TITLE III S313 (USA):** None**LABEL INFORMATION ACCORDING TO THE DIRECTIVES 88/379/EEC AND 67/548/EEC (EU):****SYMBOL AND INDICATIONS:** Not required.**R PHRASES:** None required.**S PHRASES:** None required.

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DANGEROUS COMPONENTS (CAS No.) Wt%
OTHER None

SPECIFIC PROVISIONS IN RELATION TO PROTECTION OF MAN OR THE ENVIRONMENT (EU)

REGULATION (EEC) 2455/92: Not regulated.

DIRECTIVE 76/769/EEC: Not regulated.

OTHER: None

OTHER INFORMATION

This information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any other process. It is based on the level of our knowledge as of the date of preparation.

Abbreviations

- 1) "EU" stands for ILV (Indicative Limit Value) under EU directive 91/322/EEC.
- 2) "OSHA" stands for PEL (Permissible Exposure Limit) under Occupational Safety and Health Administration.
- 3) "ACGIH" stands for TLV (Threshold Limit Value) under American Conference of Governmental Industrial Hygienists.
- 4) "DFG" stands for MAX (Maximal Arbeitsplatzkonzentration) under Deutsche Forschungsgemeinschaft.
- 5) "TWA" stands for Time Weighted Average.
- 6) "IARC" stands for International Agency for Research on Cancer.
- 7) "NTP" stands for National Toxicology Program (USA).