



Date Prepared: Feb 14, 2005

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MATERIAL SAFETY DATA SHEET

SECTION I - GENERAL INFORMATION

PRODUCT NAME: Color Toner cartridge for use in Hewlett Packard Color Laser Printers

DESCRIPTION: The product is an assembly of various plastic and components containing toner powder for use in computer color laser printers. Under normal operation, end user is not exposed to the toner powder or other components contained inside the cartridge.

TONER CHEMICAL FAMILY: Thermoplastic Powder

SECTION II - INGREDIENTS

<i>PRINCIPAL COMPONENTS</i>	<i>CAS #</i>	<i>WT %</i>	<i>OSHA PEL</i>	<i>ACGIH TLV</i>	<i>Other LIMITS</i>
Styrene/Acrylate type polymer	25586-20-3	70 - 90	Total dust 15 mg/m ³	Inhalable 10 mg/m ³	See below
wax	115-83-3	5 - 15	Respirable 5mg/m ³	Respirable 3mg/m ³	
Color pigment	67990-05-0	3 - 10			
Silica	7631-86-9	1 - 7			

Toner is regulated under OSHA as particulate not otherwise regulated

Note: Specific chemical identities & amounts are proprietary. Information given above is for a typical toner formulation and may vary for toner powder used in various laser printer models. The principal component types, however, are the same.

SECTION III- PHYSICAL DATA

<i>BOILING POINT (C):</i> N.A.	<i>MELTING POINT (C):</i> N.A.
<i>VAPOR PRESSURE (MM Hg):</i> N.A.	<i>VAPOR DENSITY (AIR =1):</i> N.A.
<i>SOLUBILITY IN WATER:</i> Insoluble	<i>SOLUBILITY IN ORGANIC SOLVENTS:</i> N.A.
<i>SPECIFIC GRAVITY: (WATER=1):</i> Greater than 1	<i>% VOLATILE BY VOLUME:</i>
<i>EVAPORATION TATE (BUTYL ACETATE=1):</i> N.A.	<i>PH:</i> N.A.
<i>APPEARANCE AND ODOR:</i> Black powder, slight odor	

SECTION IV - FIRE & EXPLOSION HAZARD DATA

<i>FLASH POINT:</i> N.A.	<i>FLAMMABLE LIMITS:</i> N.A.	<i>LEL:</i> N.A.	<i>UEL:</i> N.A.
<i>EXTINGUISHING MEDIA:</i> Dry chemical, water, foam or carbon dioxide			
<i>SPECIAL FIRE FIGHTING PROCEDURE:</i> Avoid inhaling smoke, wear protective clothing and self contained breathing apparatus			

UNUSUAL FIRE & EXPLOSION HAZARD: none under normal use and conditions

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SECTION V - REACTIVITY DATA

STABILITY: Stable **CONDITIONS TO AVOID:** Avoid open flame

MATERIAL INCOMPATIBILITY FOR TRANSPORT, HANDLING & STORAGE: None known

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Combustion products may be toxic, avoid breathing smoke

SECTION VI - HEALTH HAZARD DATA

CARCINOGENICITY:- NTP?: No **IARC MONOGRAPHS:** No **OSHA REGULATED:** No

HEALTH HAZARD (Acute & Chronic): None when used as intended in color laser printers

SIGNS & SYMPTOMS OF EXPOSURE: None under normal use, minimal respiratory tract irritation may occur as with exposure to large amounts of any non-toxic dust

PRIMARY ROUTES OF ENTRY:- Inhalation

MEDICAL CONDITION GENERALLY AGGRAVATED BY EXPOSURE: None when used as intended

EMERGENCY & FIRST AID PROCEDURES: Contact with skin: wash with soap and water; In eyes: flush eyes with water, seek medical attention.

SECTION VII - PRECAUTION FOR SAFE HANDLING AND USE

SPILL RESPONSE: Vacuum or sweep. Vacuum filter must be rated for fine dust

WASTE DISPOSAL METHOD: Dispose according to federal, State and local regulations. Incinerate only in closed containers

PRECAUTION TO BE TAKEN IN HANDLING & STORAGE: Avoid excessive heat. Do not store next to strong oxidizers

SECTION VIII - CONTROL MEASURES

RESPIRATORY PROTECTION: None when used as intended

EYE PROTECTION: None when used as intended

PROTECTIVE GLOVES: None when used as intended

VENTILATION: Normal office/home condition

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: None when used as intended

WORK/HYGIENIC PRACTICE: Avoid breathing toner if spilled due damaged cartridge

SECTION IX - REGULATORY 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. This information is based on the level of our knowledge as of the date of preparation. It is the users responsibility to determine the suitability of this information for each particular use.

* Complies with OSHA's Hazard Communication Standard 29 CFR 1910.1200 (standard must be consulted for specific requirements)

* N.A. = Not Applicable