

HEWLETT-PACKARD COMPANY -- HP LASER JET CARTRIDGE, C4192A -- 6850-01-463-6379

===== Product Identification =====

Product ID:HP LASER JET CARTRIDGE, C4192A

MSDS Date:01/09/1998

FSC:6850

NIIN:01-463-6379

Status Code:A

MSDS Number: CJVJV

=== Responsible Party ===

Company Name:HEWLETT-PACKARD COMPANY

Address:11311 CHINDEN BLVD

City:BOISE

State:ID

ZIP:83714

Country:US

Info Phone Num:208-323-2551

Emergency Phone Num:208-396-6000

CAGE:18660

=== Contractor Identificat

ion ===

Company Name:HEWLETT-PACKARD CO BOISE DIV

Address:11311 CHINDEN BLVD

Box:City:BOISE

State:ID

ZIP:83714

Country:US

Phone:208-396-6000

CAGE:18660

===== Composition/Information on Ingredients =====

Ingred Name:STYRENE ACRYLATE COPOLYMER

Minumum % Wt:60.

Maxumum % Wt:80.

OSHA PEL:15 MG/M3

ACGIH TLV:10 MG/M3

Ingred Name:POLYETHYLENE; (WAX)

CAS:9002-88-4

RTECS #:KX3270000

Minumum % Wt:5.

Maxumum % Wt:15.

OSHA PEL:15 MG/M3

ACGIH TLV:10 MG/M3

Ingred Name:POLYESTER RESIN

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numum % Wt:5.  
Maxumum % Wt:10.  
OSHA PEL:15 MG/M3  
ACGIH TLV:10 MG/M3

Ingred Name:PIGMENT  
CAS:7782-42-5  
RTECS #:MD9659600  
Minumum % Wt:5.  
Maxumum % Wt:10.  
OSHA PEL:see Table Z-3  
ACGIH TLV:2 MG/M3

Ingred Name:TITANIUM DIOXIDE  
CAS:13463-67-7  
RTECS #:XR2275000  
&lt; Wt:.5  
OSHA PEL:15 MG/M3  
ACGIH TLV:10 MG/M3

===== Hazards Identification =====

LD50 LC50 Mixture:SEE TOXICOLOGICAL INFORMATION.  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO  
Reports of Carcino  
genicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:ACUTE: INGESTION: INGESTION IS NOT AN  
APPLICABLE ROUTE OF ENTRY FOR INTENDED USE. INHALATION: MINIMAL  
RESPIRATORY TRACT IRRITATION MAY OCCUR WITH EXPOSURE TO LARGE  
AMOUNTS OF TONER DUST. EYES: MAY CAU SE EYE IRRITATION. SKIN:  
UNLIKELY TO CAUSE SKIN IRRITATION. CHRONIC: NONE KNOWN.  
Effects of Overexposure:SEE HEALTH HAZARDS.

===== First Aid Measures =====

First Aid:INGESTION  
: DILUTE STOMACH CONTENTS WITH SEVERAL GLASSES OF  
WATER. GET MEDICAL ATTENTION IF SYMPTOMS PERSIST. INHALATION: MOVE  
PERSON TO FRESH AIR IMMEDIATELY. IF SYMPTOMS OCCUR, CONSULT A  
PHYSICIAN. E YES: IMMEDIATELY FLUSH WITH LARGE AMOUNTS OF CLEAN,  
LUKEWARM WATER (LOW PRESSURE) FOR AT LEAST 15 MINUTES. IF  
IRRITATION PERSISTS, CONSULT A PHYSICIAN. SKIN: WASH AFFECTED AREAS  
THOROUGHLY WITH SOAP A ND WATER. IF IRRITATION PERSISTS, CONSULT A  
PHYSICIAN.

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## Fire Fighting Measures =====

Extinguishing Media:CO<sub>2</sub>, WATER, DRY CHEMICAL.

Fire Fighting Procedures:NONE. WEAR NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE EQUIPMENT .

Unusual Fire/Explosion Hazard:TONER MATERIAL, LIKE MOST ORGANIC MATERIALS IN POWDER FORM, IS CAPABLE OF CREATING A DUST EXPLOSION. FLAMMABILITY: NON-FLAMMABLE SOLID (ACCORDING TO TEST METHODS OF USA 16 CFR 1500.44 AND 84/449/EEC ( ANNEX V)).

## ===== Accidenta

### I Release Measures =====

Spill Release Procedures:WEAR PERS PROT EQUIP AS DESCRIBED UNDER CONTROL MEASURES SECTION. AVOID BREATHING DUST. MINIMIZE THE RELEASE OF PARTICLES. VACUUM OR SWEEP THE MATERIAL INTO A BAG OR OTHER SEALED CONTAINER. IF A VACUUM IS USED, THE MOTOR MUST BE RATED AS DUST TIGHT. DISPOSE OF WASTE TONER IN ACCORDANCE WITH LOCAL REQUIREMENTS. ENVIRONMENTAL PRECAUTIONS: DO NOT DISCHARGE INTO DRAINS.

## ===== Handling and Storage =====

Handling and Storage Precautions:KEEP MATERIAL OUT OF REACH OF CHILDREN. AVOID INHALATION OF DUST AND CONTACT WITH EYES. KEEP AWAY FROM EXCESSIVE HEAT, SPARKS, AND OPEN FLAMES. KEEP CONTAINER CLOSED AND STORE AT ROOM TEMPERATURE. KEEP AWAY FROM STRONG OXIDIZERS.

Other Precautions:EXPOSURE LIMITS FOR TONER: USA OSHA (TWA\*5)/PEL): 15 MG/M<sup>3</sup>(TOTAL DUST), 5 MG/M<sup>3</sup> (RESPIRABLE FRACTION). ACGIH (TWA/TLV): 10 MG/M<sup>3</sup> (INHALABLE PARTICULATE), 3 MG/M<sup>3</sup> (RESPIRABLE PARTICULATE). DFG(MAK): 6 MG/M<sup>3</sup> (FEINSTAUBKONZENTRATION).

## ===== Exposure Controls/Personal Protection =====

Respiratory Protection:NOT REQUIRED UNDER INTENDED USE. USE NIOSH APPROVED RESPIRATOR APPROPRIATE FOR EXPOSURE OF CONCERN .

Ventilation:GOOD GENERAL VENTILATION SHOULD BE SUFFICIENT UNDER INTENDED USE.

Protective Gloves:NOT REQUIRED UNDER INTENDED USE. WEAR IMPERVIOUS GLOVES .

Eye Protection:NOT REQUIRED UNDER INTENDED USE. ANSI APPROVE

D CHEMICAL

WORKERS GOGGLES .

Other Protective Equipment:NOT REQUIRED UNDER INTENDED USE.

Supplemental Safety and Health

COMPOSITION/INFORMATION ON INGREDIENTS: THIS PRODUCT IS A TONER PREPARATION THAT IS USED IN A HEWLETT-PACKARD COLOR LASER JET 4500, 4500N OR 4500DN PRINTER. PHYSICAL/CHEMICAL PROPERTIES: SOLUBILITY IN ORGANIC SOLVENTS: PARTIALLY SOLUBLE INTOLUENE AND XYLENE.

===== Physical/Chemical Properties =====

Melt/Freeze Pt:>100.C, 212.F

M.P/F

.P Text:SOFTENING POINT

Spec Gravity:1.0-1.2 (H\*2O=1)

Solubility in Water:NEGLIGIBLE

Appearance and Odor:CYAN FINE POWDER, WITH SLIGHT PLASTIC ODOR.

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZERS.

Hazardous Decomposition Products:COMBUSTION WILL PRODUCE CARBON DIOXIDE AND POSSIBLY TOXIC CHEMICALS, SUCH AS CARBON MONOXIDE.

===== Toxicological Information =====

Toxicological Inform

ation:ACUTE TOXICITY: INHAL: LC50: >5 MG/L/4 HRS

(RATS, DATA FROM SIMILAR TONER). INGEST: LD50: >2000 MG/KG (RATS, DATA FROM SIMILAR TONER). EYES: NOT CLASSIFIED AS IRRITANT, ACCORDING TO OSHA HAZ COMMUNICA TION STD (HCS) & EU DIRECTIVE 67/548/EEC BASED ON TEST DATA OF RABBITS (DATA FROM SIMILAR TONER). SKIN: NOT CLASSIFIED AS IRRITANT, ACCORDING TO OSHA HAZ COMMUNICATION STD (HCS) & EU DIRECTIVE 67/548/ EEC BASED ON TEST DATA OF RABBITS (DATA FROM SIMILAR TONER). CHR

ONIC TOXICITY:NO DATA

AVAIL. SENSIT: NOT CLASSIFIED AS A SENSITIZER ACCORDING TO ANNEX 1 OF EU DIRECTIVE 67/548/EEC & FHSA. (OTHER INFO)

===== Ecological Information =====

Ecological:NO DATA AVAILABLE FOR ECOLOGICAL AND WASTEWATER TREATMENT (SEWAGE) SYSTEMS. AVOID SPILLS AND DISPOSE OF IN ACCORDANCE WITH APPLICABLE LAWS AND REGULATIONS. ENVIRONMENTAL HAZARDS: NO PARTICULAR HAZARDS KNOWN.

===== Disposal Considerations =====

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Waste Disposal Methods:RECOMMENDATIONS: CONSULT WITH THE DISPOSAL AGENCY AND THE RELEVANT AUTHORITIES; CLEANSING AGENT IS WATER. DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS

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===== MSDS Transport Information =====

Transport Information:INTERNATIONAL TRANSPORT INFORMATION: UN NUMBER: NONE; UN SHIPPING NAME: NONE; HAZARDS CLASS: NONE; PACKING GROUP: NONE; SPECIAL PRECAUTIONS: NONE.

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Regulatory Information =====

SARA Title III Information:CHEMICALS REQUIRED TO REPORT UNDER SARA TITLE III SECTION 313 (USA): NONE.

Federal Regulatory Information:LABEL INFORMATION ACCORDING TO THE DIRECTIVES 88/379/EEC AND 67/548/EEC (EU): SYMBOL AND INDICATIONS: NOT REQUIRED; R PHRASES: NOT REQUIRED; S PHRASES: NOT REQUIRED; DANGEROUS COMPONENTS (CAS #) WT %: NONE; OTHER: NONE. SPECIAL PROVISIONS IN RELATION TO PROTECTION OF MAN OR THE ENVIRONMENT: (EEC

) 2455/92: NOT REGULATED; 76/769/EEC: NOT REGULATED; (EC) 3093/94: NOT REGULATED; OTHER: NONE.

State Regulatory Information:CHEMICALS REQUIRED TO REPORT UNDER CALIFORNIA PROPOSITION 65 (USA): NONE.

===== Other Information =====

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