

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

Emerge

ncy Phone Num:208-396-6000

CAGE:18660

=== Contractor Identification ===

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
Minumum % 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
< 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 Carcinogenicity: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.

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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 IRRITA

TION PERSISTS, CONSULT A
PHYSICIAN.

===== Fire Fighting Measures =====

Extinguishing Media:CO*2, 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 15
00.44 AND 84/449/EEC (ANNEX V)).

===== Accidental 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 DIS
CHARGE
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. KEE P AWAY FROM STRONG OXIDIZERS.

Other Precautions:EXPOSURE LIMITS FOR TONER: USA OSHA (TWA*5)/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). DF G(MAK): 6 MG/M*3 (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
GLOVE

S .

Eye Protection:NOT REQUIRED UNDER INTENDED USE. ANSI APPROVED 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 Information: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 COMMUNICATION 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). CHRONIC 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 HAZA

RDS KNOWN.

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

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

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

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

===== 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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