

HEWLETT-PACKARD -- HP 51649A PRINT CARTRIDGE - CARTRIDGE, TONER  
MATERIAL SAFETY DATA SHEET  
UNSN: 7510014221560  
Manufacturer's CAGE: 51174  
Part No. Indicator: A  
Part Number/Trade Name: HP 51649A PRINT CARTRIDGE

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General Information  
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Item Name: CARTRIDGE, TONER  
Company's Name: HEWLETT-PACKARD CO  
Company's Street: 1000 NE CIRCLE BLVD  
Company's City: CORVALLIS  
Company's State: OR  
Company's Country: US  
Company's Zip Code: 97330-4200  
Company's Emerg Ph #: 800-457-4209  
Company's Info Ph #: 208-323-2551  
Record No. For Safety Entry: 001  
Tot Safety Entries This Stk#: 001  
Status: SMJ  
Date MSDS Prepared: 15SEP95  
Safety Data Review Date: 19AUG96  
MSDS Serial Number: CCBJW

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Ingredients/Identity Information  
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Proprietary: NO  
Ingredient: DIETHYLENE GLYCOL  
Ingredient Sequence Number: 01  
Percent: <5  
NIOSH (RTECS) Number: ID5950000  
CAS Number: 111-46-6  
OSHA PEL: N/K (FP N)  
ACGIH TLV: N/K (FP N)

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Proprietary: NO  
Ingredient: NITRATES; (NITRATE EQUIVALENTS)  
Ingredient Sequence Number: 02  
Percent: <4  
NIOSH (RTECS) Number: 1000174NI  
OSHA PEL: N/K (FP N)  
ACGIH TLV: N/K (FP N)

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Physical/Chemical Characteristics  
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Appearance And Odor: COLORED INK.  
Boiling Point: N/A  
Melting Point: N/A  
Vapor Pressure (MM Hg/70 F): AS WATER  
Vapor Density (Air=1): AS WATER  
Specific Gravity: 1.06-1.07  
Solubility In Water: COMPLETELY MSICIBLE  
pH: 6-9

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Fire and Explosion Hazard Data  
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Flash Point: >141F,>61C  
Extinguishing Media: WATER, DRY CHEMICAL, CARBON DIOXIDE, FOAM.  
Special Fire Fighting Proc: USE NIOSH APPROVED SCBA AND FULL PROTECTIVE  
EQUIPMENT (FP N).  
Unusual Fire And Expl Hazrds: NO SPECIAL HAZARDS KNOWN.

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Reactivity Data  
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Stability: YES  
Cond To Avoid (Stability): THIS IS A STABLE PRODUCT STORED UNDER NORMAL CONDITIONS.  
Materials To Avoid: STRONG OXIDIZERS.  
Hazardous Decomp Products: CARBON MONOXIDE, CARBON DIOXIDE.  
Hazardous Poly Occur: NO  
Conditions To Avoid (Poly): NOT RELEVANT

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Health Hazard Data

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LD50-LC50 Mixture: NONE SPECIFIED BY MANUFACTURER.  
Route Of Entry - Inhalation: YES  
Route Of Entry - Skin: YES  
Route Of Entry - Ingestion: YES  
Health Haz Acute And Chronic: ACUTE: SKIN CONTACT: INK MAY CAUSE SLIGHT SKIN IRRITATION CHARACTERIZED BY REDNESS AND SWELLING AFTER PROLONGED CONTACT. INDICATIONS MAY BE MASKED BY COLOR OF INK. INGESTION: ACCIDENTAL INGESTION OF NITRATES MAY RESULT IN RESPIRATORY DEPRESSION. PRIMARY INDICATORS OF PROLONGED OVEREXPOSURE INCLUDE (EFTS OF OVEREXP)  
Carcinogenicity - NTP: NO  
Carcinogenicity - IARC: NO  
Carcinogenicity - OSHA: NO  
Explanation Carcinogenicity: NOT RELEVANT  
Signs/Symptoms Of Overexp: HLTH HAZ: SHORTNESS OF BREATH, HEADACHES, DIZZINESS AND CYANOSIS (BLUISH SKIN AND LIPS). EYE: INK MAY BE MILDLY IRRITATING. INHALATION: PROLONGED INTENTIONAL INHALATION MAY RESULT IN PRIMARY IRRITATION TO THE RESPIRATORY TRACT.  
Med Cond Aggravated By Exp: NONE SPECIFIED BY MANUFACTURER.  
Emergency/First Aid Proc: CALL HEWLETT-PACKARD HEALTH EFFECTS LINE AT 1-800-457-4209. SKIN: WASH AFFECTED AREAS THORO W/SOAP & WATER. EYES: CNTCT MAY CAUSE MILD IRRIT. IMMED FLUSH W/LG AMTS OF CLEAN, LUKEWARM WATER (LOW PRESS) FOR AT LEAST 15 MIN. INGEST: SEEK APPROP MD ATTN FOR ACCIDENTAL INGEST OF NITRATES. (NOTE TO MED PROFESSIONALS: TREAT SYMP FOR NITRITE RELATED TOX (METHEMOGLOGINEMIA). TECHNICAL LITERATURE (SUPDAT)

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Precautions for Safe Handling and Use

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Steps If Matl Released/Spill: NO SPECIAL PROCEDURES ARE INDICATED. USE ABSORBENT TOWEL TO WIPE UP INK. RINSE AREA WITH DAMP CLOTH TO REMOVE REMAINING TRACES OF INK.  
Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.  
Waste Disposal Method: DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS.  
Precautions-Handling/Storing: STORE AT ROOM TEMPERATURE. SHELF LIFT: 2 YEARS. KEEP CONTAINER CLOSED AND STORED AT ROOM TEMPERATURE.  
Other Precautions: KEEP OUT OF REACH OF CHILDREN.

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Control Measures

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Respiratory Protection: NO SPECIAL REQUIREMENTS ARE NEEDED. USE NIOSH APPROVED RESPIRATOR APPROPRIATE FOR EXPOSURE OF CONCERN (FP N).  
Ventilation: NONE SPECIFIED BY MANUFACTURER.  
Protective Gloves: IMPERVIOUS GLOVES (FP N).  
Eye Protection: ANSI APPRVD CHEM WORKERS GOGGLES (FP N).  
Other Protective Equipment: ANSI APPROVED EYE WASH & DELUGE SHOWER (FP N).  
Work Hygienic Practices: NONE SPECIFIED BY MANUFACTURER.  
Suppl. Safety & Health Data: FIRST AID PROC: INDICATES ADMIN OF 1 TO 2 MG/KG OF 1% METHYLENE BLUE SLOWLY BY IV IF PATIENT IS CYANOTIC & SYMPTOMATIC OR METHEMOGLOBIN LEVEL IS GREATER THAN 30% IN AN ASYMPTOMATIC PATIENT. ADDNL DOSES MAY BE REQD.) INHAL: REMOVE TO FRESH AIR.

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Transportation Data

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Disposal Data

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Label Data  
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Label Required: YES  
Technical Review Date: 19AUG96  
Label Date: 16AUG96  
Label Status: G  
Common Name: HP 51649A PRINT CARTRIDGE  
Chronic Hazard: NO  
Signal Word: WARNING!  
Acute Health Hazard-Slight: X  
Contact Hazard-Slight: X  
Fire Hazard-Moderate: X  
Reactivity Hazard-None: X  
Special Hazard Precautions: ACUTE: SKIN: INK MAY CAUSE SLIGHT SKIN IRRITATION CHARACTERIZED BY REDNESS AND SWELLING AFTER PROLONGED CONTACT. INDICATIONS MAY BE MASKED BY COLOR OF INK. INGESTION: ACCIDENTAL INGESTION OF NITRATES MAY RESULT IN RESPIRATORY DEPRESSION. PRIMARY INDICATORS OF PROLONGED OVEREXPOSURE INCLUDE SHORTNESS OF BREATH, HEADACHES, DIZZINESS AND CYANOSIS (BLUISH SKIN AND LIPS). EYES: MAY BE MILDLY IRRITATING. INHALATION: PROLONGED INTENTIONAL INHALATION MAY RESULT IN PRIMARY IRRITATION TO THE RESPIRATORY TRACT. CHRONIC: NONE LISTED BY MANUFACTURER.  
Protect Eye: Y  
Protect Skin: Y  
Protect Respiratory: Y  
Label Name: HEWLETT-PACKARD CO  
Label Street: 1000 NE CIRCLE BLVD  
Label City: CORVALLIS  
Label State: OR  
Label Zip Code: 97330-4200  
Label Country: US  
Label Emergency Number: 800-457-4209