



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name CD949A
Use of the preparation Inkjet printing
Version # 01
Revision date 08-21-2008
CAS # Mixture
Manufacturer information Hewlett-Packard Company
1000 NE Circle Boulevard
Corvallis, OR 97330-4239 US
(Direct) 1-503-494-7199
(Toll-free within the US) 1-800-457-4209

Hewlett-Packard health effects line
(Toll-free within the US) 1-800-457-4209
(Direct) 1-503-494-7199

General information telephone number
HP Customer Care Line 1-800-474-6836
(Toll-free) 1-800-474-6836
(Direct) 1-208-323-2551
Date prepared Aug 21, 2008
MSDS number 308148

2. Hazards Identification

Emergency overview Contact with skin and eyes may result in irritation. Ingestion may result in nausea, vomiting and diarrhea. May cause sensitization of susceptible persons.

Acute health effects Any potential hazards are presumed to be due to exposure to the components.

Potential health effects

Routes of exposure Potential routes of overexposure to this product are skin and eye contact
Inhalation of vapor and ingestion are not expected to be significant routes of exposure for this product under normal use conditions.
Complete toxicity data are not available for this specific formulation

Chronic health effects None known.

Carcinogenicity None of the components present in this formulation at concentrations equal to or greater than 0.1% are listed by EU, MAK, IARC, NTP or OSHA.

3. Composition / Information on Ingredients

Component/Substance	CAS Number	% By Weight
Matte Black ink		
Water	7732-18-5	< 80
2-pyrrolidone	616-45-5	< 20
1,5-pentanediol	111-29-5	< 2.5
Ethyl alkyldiol	Proprietary	< 2.5
Red Plus Ink		
Water	7732-18-5	< 80
2-pyrrolidone	616-45-5	< 10
Alkyldiol	Proprietary	< 10
Diethylene glycol	111-46-6	< 10
Triethanolamine	102-71-6	< 1



MATERIAL SAFETY DATA SHEET

Composition comments

This ink supply contains an aqueous ink formulation.
This product has been evaluated using criteria specified in 29 CFR 1910.1200 (Hazard Communication Standard).

4. First Aid Measures

First aid procedures

Eye contact

Do not rub eyes. Immediately flush with large amounts of clean, warm water (low pressure) for at least 15 minutes or until particles are removed. If irritation persists get medical attention.

Skin contact

Wash affected areas thoroughly with mild soap and water. If irritation persists get medical attention.

Inhalation

Move to fresh air. If symptoms persist, get medical attention.

Ingestion

If material is ingested, immediately contact a physician or poison control center.

5. Fire Fighting Measures

Flash point and method

> 200 °F (> 93.3 °C); Pensky-Martens Closed Cup

Matte Black ink

> 200 °F (> 93.3 °C); Pensky-Martens Closed Cup

Red Plus Ink

> 200 °F (> 93.3 °C); Pensky-Martens Closed Cup

Hazardous combustion products

Refer to section 10.

Matte Black ink

Refer to section 10.

Red Plus Ink

Refer to section 10.

Flammable properties

None known.

Extinguishing media

Suitable extinguishing media

Dry chemical, CO₂, water spray or regular foam.

Unsuitable extinguishing media

None known.

Unusual fire and explosion hazard

None known.

Matte Black ink

Combustion generates toxic fumes of fluorides/fluorine compounds.

Red Plus Ink

None known.

Special firefighting procedures

None established.

Matte Black ink

None established.

Red Plus Ink

None established.

6. Accidental Release Measures

Personal precautions

Wear appropriate personal protective equipment.

Environmental precautions

Do not let product enter drains. Do not flush into surface water or sanitary sewer system.

Other information

Soak up with inert absorbent material. Slowly vacuum or sweep the material into a bag or other sealed container. Dispose of in compliance with federal, state, and local regulations. See also section 13 Disposal considerations.

7. Handling and Storage

Handling

Avoid contact with skin, eyes and clothing.

Storage

Keep out of the reach of children. Keep away from excessive heat or cold.



MATERIAL SAFETY DATA SHEET

8. Exposure Controls / Personal Protection

Exposure guidelines	Exposure limits have not been established for this product.
Personal protective equipment	
General	Use personal protective equipment to minimize exposure to skin and eye.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.

9. Physical & Chemical Properties

Color	Matte Black and Red <i>Matte Black ink</i> black <i>Red Plus Ink</i> Red
Odor threshold	Not available. <i>Matte Black ink</i> Not available. <i>Red Plus Ink</i> Not available.
Physical state	Liquid. <i>Matte Black ink</i> Not available. <i>Red Plus Ink</i> Liquid.
pH	9.2 <i>Matte Black ink</i> 9.2 <i>Red Plus Ink</i> 9.2
Melting point	Not available. <i>Matte Black ink</i> Not available. <i>Red Plus Ink</i> Not available.
Freezing point	Not available. <i>Matte Black ink</i> Not available. <i>Red Plus Ink</i> Not available.
Boiling point	Not determined <i>Matte Black ink</i> Not determined <i>Red Plus Ink</i> Not determined
Flash point	> 200 °F (> 93.3 °C); Pensky-Martens Closed Cup <i>Matte Black ink</i> > 200 °F (> 93.3 °C); Pensky-Martens Closed Cup <i>Red Plus Ink</i> > 200 °F (> 93.3 °C); Pensky-Martens Closed Cup



invent

MATERIAL SAFETY DATA SHEET

Evaporation rate	Not determined <i>Matte Black ink</i> Not determined <i>Red Plus Ink</i> Not determined
Flammability	Not available. <i>Matte Black ink</i> Not available. <i>Red Plus Ink</i> Not available.
Flammability limits in air, upper, % by volume	Not available. <i>Matte Black ink</i> Not available. <i>Red Plus Ink</i> Not available.
Flammability limits in air, lower, % by volume	Not determined <i>Matte Black ink</i> Not determined <i>Red Plus Ink</i> Not determined
Vapor pressure	Not determined <i>Matte Black ink</i> Not determined <i>Red Plus Ink</i> Not determined
Vapor density	Not determined <i>Matte Black ink</i> > 1 (air=1) <i>Red Plus Ink</i> Not determined
Specific gravity	1 - 1.11 <i>Matte Black ink</i> 1 - 1.1 <i>Red Plus Ink</i> 1 - 1.1
Relative density	Not available. <i>Matte Black ink</i> Not available. <i>Red Plus Ink</i> Not available.
Solubility in water	Soluble in water <i>Matte Black ink</i> Soluble in water <i>Red Plus Ink</i> Soluble in water
Partition coefficient (n-octanol/water)	Not available. <i>Matte Black ink</i> Not available. <i>Red Plus Ink</i> Not available.



MATERIAL SAFETY DATA SHEET

Auto-ignition temperature Not determined
Matte Black ink
Not determined
Red Plus Ink
Not determined

Decomposition temperature Not available.
Matte Black ink
Not available.
Red Plus Ink
Not available.

10. Chemical Stability & Reactivity Information

Chemical stability Stable under recommended storage conditions.

Incompatible materials Strong acids, alkalies and oxidizing agents.

Hazardous decomposition products
Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. Acetylene, hydrogen fluoride, fluorinated hydrocarbons, aldehydes, ketones

Possibility of hazardous reactions Will not occur.

11. Toxicological Information

Not available.

12. Ecological Information

Aquatic toxicity This product has not been tested for ecological effects.
Matte Black ink
LC50/96h/Fathead minnows => 750 mg/L
Red Plus Ink
This product has not been tested for ecological effects.

Persistence and degradability Not available.

13. Disposal Considerations

Disposal instructions Dispose of in compliance with federal, state, and local regulations.
HP's Planet Partners (trademark) supplies recycling program enables simple, convenient recycling of HP original inkjet and LaserJet supplies. For more information and to determine if this service is available in your location, please visit <http://www.hp.com/recycle>.

14. Transport Information

IATA

Proper shipping name Not applicable

Hazard class Not applicable

UN number None

Packing group N/A

Packaging exceptions None

15. Regulatory Information

US federal regulations US TSCA 12(b): Contains sodium nitrite, CAS 7632-00-0, matte black ink only, subject to export notification requirements.

CERCLA (Superfund) reportable quantity
None



MATERIAL SAFETY DATA SHEET

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories	Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No
Section 302 extremely hazardous substance	No
Section 311 hazardous chemical	No
International regulations	All chemical substances in this HP product have been notified or are exempt from notification under chemical substances notification laws in the following countries: US (TSCA), EU (EINECS/ELINCS), Switzerland, Canada (DSL/NDL), Australia, Japan, Philippines, South Korea, New Zealand, and China.

16. Other Information

HMIS® ratings	Health: 1 Flammability: 1 Physical hazard: 0
NFPA ratings	Health: 1 Flammability: 1 Instability: 0
Issue date	Aug 21 2008 10:02AM
Revision	1
Disclaimer	This Safety Data Sheet document is provided without charge to customers of Hewlett-Packard Company. Data is the most current known to Hewlett-Packard Company at the time of preparation of this document and is believed to be accurate. It should not be construed as guaranteeing specific properties of the products as described or suitability for a particular application. This document was prepared to the requirements of the jurisdiction specified in Section 1 above and may not meet regulatory requirements in other countries.

Explanation of abbreviations

ACGIH	American Conference of Governmental Industrial Hygienists
CAS	Chemical Abstracts Service
CERCLA	Comprehensive Environmental Response Compensation and Liability Act
CFR	Code of Federal Regulations
COC	Cleveland Open Cup
DOT	Department of Transportation
EPCRA	Emergency Planning and Community Right-to-Know Act (aka SARA)
IARC	International Agency for Research on Cancer
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
RCRA	Resource Conservation and Recovery Act
REC	Recommended
REL	Recommended Exposure Limit
SARA	Superfund Amendments and Reauthorization Act of 1986
STEL	Short-Term Exposure Limit
TCLP	Toxicity Characteristics Leaching Procedure
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act
VOC	Volatile Organic Compounds