

1. Chemical Product and Company Identification

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Material name	C4934A
Use of the preparation	Inkjet printing
Version #	03
Revision date	27-Mar-2008
CAS #	Mixture
Manufacturer information	Hewlett-Packard Company 1000 NE Circle Boulevard Corvallis, OR 97330-4239 US
Hewlett-Packard health effect	ts line
(Toll-free within the US) (Direct)	1-800-457-4209 1-503-494-7199
General information telephon	
HP Customer Care Line (Toll-free) (Direct)	1-800-474-6836 1-800-474-6836 1-208-323-2551
Date prepared	Mar 27, 2008
2. Hazards Identification	
Emergency overview	Contact with skin and eyes may result in irritation.
Acute health effects	Any potential hazards are presumed to be due to exposure to the components.
Skin contact	
	<i>2-pyrrolidone</i> Contact with skin may result in irritation. <i>Aliphatic diol</i> Contact with skin may result in irritation.
Eye contact	
	<i>2-pyrrolidone</i> Contact with eyes may result in irritation. <i>Aliphatic diol</i> Contact with eyes may result in irritation.
Inhalation	
	2-pyrrolidone Inhalation may result in respiratory irritation. Aliphatic diol
	Inhalation may result in respiratory irritation.
Ingestion	Inhalation may result in respiratory irritation.



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 % by weight Component/substance **CAS** number 7732-18-5 Water > 80 Aliphatic diol Proprietary < 10 2-pyrrolidone 616-45-5 < 5 **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. Get medical attention if irritation develops or persists. Inhalation Remove to fresh air. If symptoms persist, get medical attention. Ingestion If ingestion of a large amount does occur, seek medical attention. 5. Fire Fighting Measures Flash point and method > 200 °F (> 93.3 °C); Pensky-Martens Closed Cup Refer to section 10. Hazardous combustion products Flammable properties None known. **Extinguishing media** Suitable extinguishing Dry chemical, CO2, water spray or regular foam. media Unsuitable extinguishing None known. media Unusual fire and explosion None known. hazard Special firefighting None established. procedures

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.



Storage

MATERIAL SAFETY DATA SHEET

Methods for containment	Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using pumps.
Methods for cleaning up	Soak up with inert absorbent material.
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.

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

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.
Eye / face protection	Not required under intended use.
Skin protection	Protected gloves not required under intended use.
Respiratory protection	For use other than intended use (such as in the event of a large spill), goggles and respirators may be required.
General hygeine considerations	Handle in accordance with good industrial hygiene and safety practice.

9. Physical & Chemical Properties

Color	Cyan light
Odor threshold	Not available
Physical state	Liquid.
рН	7 - 8
Melting point	Not available
Freezing point	Not available
Boiling point	Not determined
Flash point	> 200 °F (> 93.3 °C); Pensky-Martens Closed Cup
Evaporation rate	Not determined
Flammability	Not available.
Flammability limits in air, upper, % by volume	Not available
Flammability limits in air, lower, % by volume	Not determined
Vapor pressure	Not determined
Vapor density	> 1 (air = 1.0)
Specific gravity	1 - 1.2
Relative density	Not available
Solubility in water	Soluble in water



Partition coefficient (n-octanol/water)	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
VOC	< 3 %
Viscosity	> 2 cp

10. Chemical Stability & Reactivity Information

Chemical stability	Stable under recommended storage conditions.
Incompatible materials	Incompatible with strong bases 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.
Possibility of hazardous reactions	Will not occur.

11. Toxicological Information

Not available

12. Ecological Information	
Aquatic toxicity	LC50/96h/Fathead minnows => 750 mg/L
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. Transportation Information

Department of Transportation (DOT) Requirements

Not regulated as hazardous goods.

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 EPA TSCA 12(b): Does not contain listed chemicals.

CERCLA (Superfund) reportable quantity

None



Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories	Immediate Hazard - No Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No
Section 302 extremely hazardous substance	No
Section 311 hazardous chemical	Yes
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/NDSL), Australia, Japan, Philippines, South Korea, New Zealand, and China.

16. Other Information

HMIS® ratings	Health: 1 Flammability: 2 Physical hazard: 0
NFPA ratings	Health: 1 Flammability: 2 Instability: 0
Issue date	Mar 27 2008 2:13PM
Revision	3
Replaces sheet dated	Jan 9 2006 11:46PM
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.
MSDS sections updated	 Hazards Identification: Routes of exposure Exposure Controls/Personal Protection: Respiratory



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