

invent		
1. Product and Company Identification		
Identification of the preparation	C4873Series	
Product use	Inkjet printing	
Version #	05	
Revision date	21-Apr-2011	
CAS #	Mixture	
Company identification	Hewlett-Packard Company 3000 Hanover Street Palo Alto, CA 94304-1185 United States Telephone 650-857-1501	
	Hewlett-Packard health effects line (Toll-free within the US) 1-800-457-4209 (Direct) 1-503-494-7199 HP Customer Care Line (Toll-free within the US) 1-800-474-6836 (Direct) 1-208-323-2551 Email: hpcustomer.inquiries@hp.com	
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	1,5-pentanediol	
	Contact with skin may result in irritation.	
	2-pyrrolidone	
	Contact with skin may result in irritation.	
	<i>Alkyldicarboxylic acid</i> Contact with skin may result in irritation.	
	Alkyldiol ethoxylate	
	Contact with skin may result in severe irritation.	
	<i>Ethyl alkyldiol</i> Contact with skin may result in mild irritation.	
Eye contact	<i>1,5-pentanediol</i> Contact with eyes may result in irritation.	
	<i>2-pyrrolidone</i> Contact with eyes may result in irritation.	
	<i>Alkyldicarboxylic acid</i> Contact can cause moderate to severe irritation and possible injury to the eyes.	
	<i>Alkyldiol ethoxylate</i> Contact can cause moderate to severe irritation and possible injury to the eyes.	
	<i>Ethyl alkyldiol</i> Contact with eyes may result in mild irritation.	
Inhalation	2-pyrrolidone Inhalation may result in respiratory irritation.	
	<i>Alkyldicarboxylic acid</i> Inhalation may result in respiratory irritation.	

Ingestion	2-pyrrolidone
	Ingestion may result in nausea, vomiting and diarrhea.
	Alkyldicarboxylic acid
	Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea.
	Alkyldiol ethoxylate
	Ingestion may cause irritation of mouth, throat, nausea, vomiting and diarrhea.
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 / Informati	on on Ingredients

3. Composition / Inform	ation on ingredients		Deveent
Components		CAS #	Percent
Water		7732-18-5	60 - 70
1,5-pentanediol		111-29-5	7.5 - 10
2-pyrrolidone		616-45-5	5 - 7.5
Alkyldicarboxylic acid		Proprietary	5 - 7.5
Ethyl alkyldiol		Proprietary	5 - 7.5
Alkyldiol ethoxylate		Proprietary	1 - 2.5
Substituted napthalenesulfonate s	alt #7	Proprietary	1 - 2.5
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 larg least 15 minutes or until particles are remove		
Skin contact	Wash affected areas thoroughly with mild so attention.	ap and water. If irritation pe	ersists get medical
Inhalation	Move to fresh air. If symptoms persist, get m	nedical attention.	
Ingestion	If ingestion of a large amount does occur, se	ek medical attention.	
5. Fire Fighting Measure	S		
Flammable properties	None known.		
Extinguishing media			
Suitable extinguishing media	CO2, water, dry chemical, or foam		
Unsuitable extinguishing media	None known.		
Specific methods	None established.		
Hazardous combustion products	Refer to section 10.		
6. Accidental Release Me	easures		
Personal precautions	Wear appropriate personal protective equipm	nent.	

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

Environmental precautions

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.
Storage	Keep out of the reach of children. Keep away from excessive heat or cold.
8. Exposure Controls / P	ersonal Protection
Exposure guidelines	Exposure limits have not been established for this product.
Engineering controls	Use in a well ventilated area. Provide adequate ventilation.
Personal protective equipmen	t
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 hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.
General	Use personal protective equipment to minimize exposure to skin and eye.

9. Physical & Chemical Properties

Appearance	Not available.
Color	Not available.
Odor	Not available.
Odor threshold	Not available.
Physical state	Liquid
Form	Not available.
рН	3.75
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 limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not determined
Vapor pressure	Not determined
Vapor density	Not available.
Specific gravity	1
Relative density	Not available.
Solubility (water)	Soluble in water
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	2 cp
VOC	< 3 %

10. Chemical Stability & Reactivity Information

	-	-
Chemical stability		Stable unde
Incompatible materials		Incompatibl

der recommended storage conditions. ble 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 Informa	ation
Serious eye damage/eye irritation	Not available.
Skin sensitization	Not available.
Further information	This ink formulation has not been tested for toxicological effects. Refer to Section 2 for potential health effects and Section 4 for first aid measures.
12. Ecological Informatio	n
Ecotoxicity	EC50: > 100 mg/l, Algae, 72.00 hr EC50: > 100 mg/l, Daphnia, 48.00 hr
	NOEC: 100 mg/l, Algae, 72.00 hr NOEC: 100 mg/l, Daphnia, 48.00 hr
	Information given is based on data on the components and the ecotoxicology of similar products
Aquatic toxicity	LC50/96h/Fathead minnows =/< 400 mg/L Static acute toxicity (trout), survival (100 mg/L) = 80% Static acute toxicity (trout), survival (10 mg/L) = 100%
Persistence and degradability	Not available.
13. Disposal Consideration	ons
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 Informatio	n
Further information	Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.
DOT	
Not regulated as dangerous goods.	
ΙΑΤΑ	
Basic shipping requiremen	ts:
Proper shipping name	Not applicable
Hazard class UN number	Not applicable None
Packing group	N/A
Additional information:	
Packaging exceptions	None
IMDG	
Not regulated as dangerous goods.	
RID	
Not regulated as dangerous goods.	
15. Regulatory Informati	on
US federal regulations	US EPA TSCA 12(b): Does not contain listed chemicals.
CERCLA (Superfund) reportabl None	e quantity
Occupational Safety and Healt	h Administration (OSHA)
29 CFR 1910.1200 hazardous chemical	Yes

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
State regulations	
US - Pennsylvania RTK - H	Hazardous Substances: Listed substance
2-pyrrolidone (CAS 616-	45-5) Listed.
Regulatory information	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	
Other information	This MSDS was prepared in accordance with USA OSHA Hazard Communications regulation (29 CFR 1910.1200).
HMIS® ratings	Health: 1 Flammability: 2 Physical hazard: 0
NFPA ratings	Health: 1 Flammability: 2 Instability: 0
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.
Issue date	21-Apr-2011
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

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