

1. Chemical Product and Company Identification

chemical Floudet and Comp	pany ruentification
Material name	C5056A
Use of the preparation	Inkjet printing
Version #	04
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	ne number
HP Customer Care Line (Toll-free) (Direct)	1-800-474-6836 1-800-474-6836 1-208-323-2551
Date prepared	Mar 26, 2008
MSDS number	236939
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>1,5-pentanediol</i> Contact with skin may result in irritation.
	<i>2-pyrrolidone</i> Contact with skin may result in irritation.
	<i>Alkyldicarboxylic acid</i> Contact with skin may result in irritation.
	<i>Tetraethylene glycol</i> Contact with skin may result in irritation.
Eye contact	
	1,5-pentanediol
	Contact with eyes may result in irritation.
	Contact with eyes may result in irritation. <i>2-pyrrolidone</i> Contact with eyes may result in irritation.
	2-pyrrolidone
	<i>2-pyrrolidone</i> Contact with eyes may result in irritation. <i>Alkyldicarboxylic acid</i>



Inhalation	
	2-pyrrolidone Inhalation may result in respiratory irritation.
	Alkyldicarboxylic acid Inhalation may result in respiratory irritation.
	<i>Tetraethylene glycol</i> Inhalation may result in respiratory irritation.
Ingestion	
	<i>2-pyrrolidone</i> Ingestion may result in nausea, vomiting and diarrhea. <i>Alkyldicarboxylic acid</i> Ingestion can cause gastrointestinal irritation, 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 / Information on Ingredients

Component/substance	CAS number	% by weight
Water	7732-18-5	> 60
1,5-pentanediol	111-29-5	< 15
2-pyrrolidone	616-45-5	< 7.5
Alkyldicarboxylic acid	Proprietary	< 7.5
Tetraethylene glycol	112-60-7	< 5
Substituted xanthylium salt #1	Proprietary	< 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).	
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 attent	

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
Hazardous combustion products	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.
Special firefighting procedures	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.
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/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 hygeine considerations	Handle in accordance with good industrial hygiene and safety practice.
9. Physical & Chemical Properti	es
Color	Magenta
Odor threshold	Not available
Physical state	Liquid.
рН	3.8 - 4.2
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 =/< 400 mg/L</td> Static acute toxicity (trout), survival (100 mg/L) = 100% Static acute toxicity (trout), survival (10 mg/L) = 100% 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.





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Proper shipping name	Not applicable
Hazard class	Not applicable
UN number	None
Packing group	N/A
Packaging exceptions	None

15. Regulatory Information

S. Regulatory Information	
US federal regulations	US TSCA 12(b): Does not contain listed chemicals.
CERCLA (Superfund) reportab	le quantity
None	
Superfund Amendments and R	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.
5. Other Information	
HMIS® ratings	Health: 1 Flammability: 2 Physical hazard: 0
NFPA ratings	Health: 1 Flammability: 2 Instability: 0
Issue date	Mar 26 2008 7:06PM
Revision	4
Replaces sheet dated	Jun 14 2007 7:16AM
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