C5010Series[C]-MSDS_US-English-11.pdf

C5010Series[M]-MSDS_US-English-04.pdf

C5010Series[Y]-MSDS_US-English-04.pdf



Invent	
1. Product and Compar	y Identification
Identification of the preparation	C5010Series[C]
Product use	Inkjet printing
Version #	09
Revision date	16-Oct-2012
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	on
Emergency overview	Contact with skin and eyes may result in irritation.
	Causes skin 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.
	Alkyldicarboxylic acid Contact with skin may result in irritation.
	Substituted phthalocyanine salt #3 Contact with skin may result in irritation.
	<i>Tetraethylene glycol</i> Contact with skin may result in irritation.
Eye contact	<i>1,5-pentanediol</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>Substituted phthalocyanine salt #3</i> Contact with eyes may result in irritation.
	<i>Tetraethylene glycol</i> Contact with eyes may cause irritation.
Inhalation	<i>Alkyldicarboxylic acid</i> Inhalation may result in respiratory irritation.
	Substituted phthalocyanine salt #3 Inhalation may result in respiratory irritation.
	<i>Tetraethylene glycol</i> Inhalation may result in respiratory irritation.
Ingestion	<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 / Informati	on on Ingredients

Components		CAS #	Percent
1,5-pentanediol		111-29-5	< 15
Alkyldicarboxylic acid		Proprietary	< 7.5
Substituted phthalocyanine salt #3		Proprietary	< 2.5
Tetraethylene glycol		112-60-7	< 5
Water		7732-18-5	> 60
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 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.
General advice	No additional information
5. Fire Fighting Measures	S
Flammable properties	None known.
Extinguishing media	
Suitable extinguishing media	For small (incipient) fires, use media such as foam, sand, dry chemical, or carbon dioxide. For large fires use very large (flooding) quantities of water and/or foam, applied as a mist or spray
Unsuitable extinguishing media	None known.
Specific methods	None established.
Hazardous combustion products	Refer to section 10.

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.

General

8. Exposure Controls / Personal Protection

Exposure guidelines	Exposure limits have not been established for this product.
Engineering controls	Use in a well ventilated area.
Personal protective equipment	
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.

Use personal protective equipment to minimize exposure to skin and eye.

9. Physical & Chemical Properties

5. Filysical & chemical F	
Appearance	Not available.
Color	Cyan
Odor	Not available.
Odor threshold	Not available.
Physical state	Liquid
Form	Not available.
рН	3.8
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 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	Not available.
Other information	For other VOC regulatory data/information see section 15.
10. Chemical Stability &	Reactivity Information

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

Serious eye damage/eye irritation	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 Informati	on
Aquatic toxicity	LC50/96h/Fathead minnows =461 mg/L Static acute toxicity (trout), survival (100 mg/L) = 100% Static acute toxicity (trout), survival (10 mg/L) = 100%
Persistence and degradability	
13. Disposal Considerat	ions
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 Informati	on
Further information DOT	Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.
Not regulated as dangerous good	s.
IATA Not regulated as dangerous good	s.
IMDG Not regulated as dangerous good	ls.
RID	
Not regulated as dangerous good	s.
Chemical Code Number Not listed.	istration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and rt Notification (40 CFR 707, Subpt. D)
CERCLA (Superfund) reportal None	ble quantity
Occupational Safety and Heal 29 CFR 1910.1200 hazardous chemical	th Administration (OSHA) 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	Νο
Section 311 hazardous chemical	Yes
State regulations	
US. Massachusetts RTK -	Substance List
Not regulated.	
=	nd Community Right-to-Know Act
Not regulated. US. Pennsylvania RTK - H Not regulated.	

US. Rhode Island RTK Not regulated.	
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. 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	16-Oct-2012
This data sheet contains changes from the previous version in section(s):	Product and Company Identification: Alternate Trade Names Composition / Information on Ingredients: Disclosure Overrides 5. Fire Fighting Measures: Suitable extinguishing media 9. Physical & Chemical Properties: Other information 11. Toxicological Information: Further information 14. Transport Information: Further information
Manufacturer information	Hewlett-Packard Company 3000 Hanover Street Palo Alto, California 94304-1112 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



1. Product and Compa	ny Identification
Identification of the preparation	C5010Series[M]
Product use	Inkjet printing
Version #	04
Revision date	16-Oct-2012
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 Identificati	on
Emergency overview	Contact with skin and eyes may result in irritation.
	Causes skin 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>Alkyldicarboxylic acid</i> Contact with skin may result in irritation.
	<i>Tetraethylene glycol</i> Contact with skin may result in irritation.
Eye contact	 <i>1,5-pentanediol</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>Substituted azonaphthalene mixed salt</i> Contact with eyes may result in irritation. <i>Tetraethylene glycol</i> Contact with eyes may cause irritation.
Inhalation	<i>Alkyldicarboxylic acid</i> Inhalation may result in respiratory irritation. <i>Tetraethylene glycol</i> Inhalation may result in respiratory irritation.
Ingestion	<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

Components		CAS #	Percent
1,5-pentanediol		111-29-5	< 15
Alkyldicarboxylic acid		Proprietary	< 5
Substituted azonaphthalene mi	xed salt	Proprietary	< 5
Tetraethylene glycol		112-60-7	< 5
Water		7732-18-5	> 60
Composition comments	This ink supply contains an aqueous ink formu This product has been evaluated using criteria Communication Standard).		1200 (Hazard

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 ingestion of a large amount does occur, seek medical attention.
General advice	No additional information

5. Fire Fighting Measures

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 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.

General

8. Exposure Controls / Personal Protection

Exposure guidelines	Exposure limits have not been established for this product.
Engineering controls	Use in a well ventilated area.
Personal protective equipment	:
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.

Use personal protective equipment to minimize exposure to skin and eye.

9. Physical & Chemical Properties

5. Fliysical & chemical F	Topercies
Appearance	Not available.
Color	Magenta
Odor	Not available.
Odor threshold	Not available.
Physical state	Liquid
Form	Not available.
рН	3.8
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 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	Not available.
10. Chemical Stability &	Reactivity Information
Chemical stability	Stable under recommended storage conditions.
Incompatible materials	Incompatible with strong bases and oxidizing agents.

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

Serious eye damage/eye irritation	Not available.
Sensitization	Non-sensitizer in guinea pig (OECD 406) (OECD 406)
Further information	Complete toxicity data are not available for this specific formulation Refer to Section 2 for potential health effects and Section 4 for first aid measures.

12. Ecological Information

Aquatic toxicity	LC50/96h/Fathead minnows =417 mg/L
Persistence and degradability	Not available.

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13. Disposal Considerati	ons
Disposal instructions	Do not allow this material to drain into sewers/water supplies. Dispose of waste material according to Local, State, Federal, and Provincial Environmental 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	on
Further information	Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.
DOT	
Not regulated as dangerous goods	5.
IATA Not regulated as dangerous goods	5.
IMDG	
Not regulated as dangerous goods	5.
RID	
Not regulated as dangerous goods	5.
15. Regulatory Informat	ion
US federal regulations	US TSCA 12(b): Does not contain listed chemicals.
DEA Exempt Chemical Mix	tures Code Number
Not regulated. Drug Enforcement Admini	stration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))
Not regulated. Drug Enforcement Admini Not regulated.	stration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c)) stration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and
Not regulated. Drug Enforcement Admini Not regulated. Drug Enforcement Admini Chemical Code Number Not listed.	stration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and
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Not regulated. Drug Enforcement Admini Not regulated. Drug Enforcement Admini Chemical Code Number Not listed. TSCA Section 12(b) Expor Not regulated. CERCLA (Superfund) reportab	stration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and t Notification (40 CFR 707, Subpt. D)
Not regulated. Drug Enforcement Admini Not regulated. Drug Enforcement Admini Chemical Code Number Not listed. TSCA Section 12(b) Expor Not regulated. CERCLA (Superfund) reportab None	stration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and t Notification (40 CFR 707, Subpt. D) le quantity
Not regulated. Drug Enforcement Admini Not regulated. Drug Enforcement Admini Chemical Code Number Not listed. TSCA Section 12(b) Expor Not regulated. CERCLA (Superfund) reportab	stration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and t Notification (40 CFR 707, Subpt. D) le quantity
Not regulated. Drug Enforcement Admini Not regulated. Drug Enforcement Admini Chemical Code Number Not listed. TSCA Section 12(b) Expor Not regulated. CERCLA (Superfund) reportab None Occupational Safety and Healt 29 CFR 1910.1200 hazardous chemical	stration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and t Notification (40 CFR 707, Subpt. D) le quantity th Administration (OSHA)
Not regulated. Drug Enforcement Admini Not regulated. Drug Enforcement Admini Chemical Code Number Not listed. TSCA Section 12(b) Expor Not regulated. CERCLA (Superfund) reportab None Occupational Safety and Healt 29 CFR 1910.1200 hazardous chemical	stration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and t Notification (40 CFR 707, Subpt. D) le quantity th Administration (OSHA) Yes
Not regulated. Drug Enforcement Admini Not regulated. Drug Enforcement Admini Chemical Code Number Not listed. TSCA Section 12(b) Expor Not regulated. CERCLA (Superfund) reportab None Occupational Safety and Healt 29 CFR 1910.1200 hazardous chemical Superfund Amendments and H	stration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and t Notification (40 CFR 707, Subpt. D) le quantity th Administration (OSHA) Yes Reauthorization Act of 1986 (SARA) Immediate Hazard - No Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - No
Not regulated. Drug Enforcement Admini Not regulated. Drug Enforcement Admini Chemical Code Number Not listed. TSCA Section 12(b) Expor Not regulated. CERCLA (Superfund) reportab None Occupational Safety and Healt 29 CFR 1910.1200 hazardous chemical Superfund Amendments and F Hazard categories Section 302 extremely	stration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and t Notification (40 CFR 707, Subpt. D) le quantity th Administration (OSHA) Yes Reauthorization Act of 1986 (SARA) Immediate Hazard - No Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No
Not regulated. Drug Enforcement Admini Not regulated. Drug Enforcement Admini Chemical Code Number Not listed. TSCA Section 12(b) Expor Not regulated. CERCLA (Superfund) reportab None Occupational Safety and Healt 29 CFR 1910.1200 hazardous chemical Superfund Amendments and H Hazard categories Section 302 extremely hazardous substance Section 311 hazardous chemical	stration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and t Notification (40 CFR 707, Subpt. D) le quantity th Administration (OSHA) Yes Reauthorization Act of 1986 (SARA) Immediate Hazard - No Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No Reactivity Hazard - No No
Not regulated. Drug Enforcement Admini Not regulated. Drug Enforcement Admini Chemical Code Number Not listed. TSCA Section 12(b) Expor Not regulated. CERCLA (Superfund) reportab None Occupational Safety and Healt 29 CFR 1910.1200 hazardous chemical Superfund Amendments and H Hazard categories Section 302 extremely hazardous substance Section 311 hazardous	stration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and t Notification (40 CFR 707, Subpt. D) le quantity th Administration (OSHA) Yes Reauthorization Act of 1986 (SARA) Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Reactivity Hazard - No Reactivity Hazard - No No
Not regulated. Drug Enforcement Admini Not regulated. Drug Enforcement Admini Chemical Code Number Not listed. TSCA Section 12(b) Expor Not regulated. CERCLA (Superfund) reportab None Occupational Safety and Healt 29 CFR 1910.1200 hazardous chemical Superfund Amendments and H Hazard categories Section 302 extremely hazardous substance Section 311 hazardous chemical State regulations US. Massachusetts RTK - S Not regulated.	stration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and t Notification (40 CFR 707, Subpt. D) le quantity th Administration (OSHA) Yes Reauthorization Act of 1986 (SARA) Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Reactivity Hazard - No Reactivity Hazard - No No
Not regulated. Drug Enforcement Admini Not regulated. Drug Enforcement Admini Chemical Code Number Not listed. TSCA Section 12(b) Expor Not regulated. CERCLA (Superfund) reportab None Occupational Safety and Healt 29 CFR 1910.1200 hazardous chemical Superfund Amendments and H Hazard categories Section 302 extremely hazardous substance Section 311 hazardous chemical State regulations US. Massachusetts RTK - S Not regulated.	stration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and t Notification (40 CFR 707, Subpt. D) le quantity th Administration (OSHA) Yes Reauthorization Act of 1986 (SARA) Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Reactivity Hazard - No No Yes Substance List
Not regulated. Drug Enforcement Admini Not regulated. Drug Enforcement Admini Chemical Code Number Not listed. TSCA Section 12(b) Expor Not regulated. CERCLA (Superfund) reportab None Occupational Safety and Healt 29 CFR 1910.1200 hazardous chemical Superfund Amendments and B Hazard categories Section 302 extremely hazardous substance Section 311 hazardous chemical State regulations US. Massachusetts RTK - S Not regulated. US. New Jersey Worker an Not regulated.	stration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and t Notification (40 CFR 707, Subpt. D) le quantity th Administration (OSHA) Yes Reauthorization Act of 1986 (SARA) Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Reactivity Hazard - No No Yes Substance List

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.
Other information	Specific Provisions: Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC (in the amended version OJ L 396 from 29.05.2007 page 3 with further rectifications and amendments). Exposure Limits (See Section 8): Executive regulation of Minister of Labour and Social Policy dated Nov. 29, 2002 concerning the highest exposure limits and volume of factors harmful for health and environment at work (Official Journal of Laws no 217/2002 item 1833 with further amendments).
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	16-Oct-2012
This data sheet contains changes from the previous version in section(s):	 Product and Company Identification: Alternate Trade Names Composition / Information on Ingredients: Ingredients 4. First Aid Measures: Skin contact 4. First Aid Measures: Inhalation 5. Fire Fighting Measures: Suitable extinguishing media 8. Exposure Controls / Personal Protection: Engineering controls 11. Toxicological Information: Further information 13. Disposal Considerations: Disposal instructions 14. Transport Information: Further information 15. Regulatory Information: Other information
Manufacturer information	Hewlett-Packard Company 3000 Hanover Street Palo Alto, California 94304-1112 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



Invent	
1. Product and Compa	ny Identification
Identification of the preparation	C5010Series[Y]
Product use	Inkjet printing
Version #	04
Revision date	16-Oct-2012
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 Identificati	ion
Emergency overview	Contact with skin and eyes may result in irritation.
	Causes skin 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	<i>1,5-pentanediol</i> Contact with eyes may result in irritation.
	2-pyrrolidone Contact with eyes may result in irritation. Alkyldicarboxylic acid
	Contact can cause moderate to severe irritation and possible injury to the eyes. <i>Tetraethylene glycol</i> Contact with eyes may cause irritation.
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	2-pyrrolidone 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

5. composition / million	mation on ingredients		
Components		CAS #	Percent
1,5-pentanediol		111-29-5	< 15
2-pyrrolidone		616-45-5	< 5
Alkyldicarboxylic acid		Proprietary	< 7.5
Substituted napthalenesulfonat	e salt #7	Proprietary	< 2.5
Tetraethylene glycol		112-60-7	< 5
Water		7732-18-5	> 60
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.	

No additional information

Ingestion	If ingestion of a large amount does occur,	seek medical attention.
Ingestion	I ingestion of a large amount does occur,	Seek mealear attention.

5. Fire Fighting Measures

General advice

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 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 guidelines Exposure limits have not been established for this product. General hygiene considerations Use in a well vertilated area. General hygiene Handle in accordance with good industrial hygiene and safety practice. considerations Observations General Use personal protective equipment to minimize exposure to skin and eye. 9. Physical & Chemical Properties Appearance Appearance Not available. Color Yellow Odor Not available. Off Not available. Physical state Liquid Form Not available. Prescring point Not available. Prescring point Not available. Prescring point Not determined Flash point 200 °F (93.3 °C) Pensky-Martens Closed Cup Evaporation rate Not determined Paper youtume Not determined Flash point		
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Serious eye damage/eye Not available.	11. Toxicological Inform	ation
	Serious eye damage/eye	

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.

Further information

12. Ecological Informati	on
Aquatic toxicity	LC50/96h/Fathead minnows =< 400 mg/L 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 Considerati	ions
Disposal instructions	Do not allow this material to drain into sewers/water supplies. Dispose of waste material according to Local, State, Federal, and Provincial Environmental 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 Informati	on
Further information DOT	Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.
Not regulated as dangerous good	s.
Not regulated as dangerous good	S.
IMDG	
Not regulated as dangerous good RID	S.
Not regulated as dangerous good	S.
15. Regulatory Informat	tion
US federal regulations	US TSCA 12(b): Does not contain listed chemicals.
DEA Exempt Chemical Mix	
Not regulated.	istration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))
Not regulated.	istration (DER). List I & 2 Exempt chemical mixtures (21 Cr K 1510.12(C))
5	istration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and
Not listed. TSCA Section 12(b) Expor Not regulated.	rt Notification (40 CFR 707, Subpt. D)
CERCLA (Superfund) reportat	
None	
Occupational Safety and Heal	th 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. Massachusetts RTK -	
-	45-5) nd Community Right-to-Know Act
Not regulated.	

2-pyrrolidone (CAS 616 US. Rhode Island RTK	-45-5) Listed.
Not regulated. 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.
Other information	 Specific Provisions: Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC (in the amended version OJ L 396 from 29.05.2007 page 3 with further rectifications and amendments). Exposure Limits (See Section 8): Executive regulation of Minister of Labour and Social Policy dated Nov. 29, 2002 concerning the highest exposure limits and volume of factors harmful for health and environment at work (Official Journal of Laws no 217/2002 item 1833 with further amendments).
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	16-Oct-2012
This data sheet contains changes from the previous version in section(s):	 Product and Company Identification: Alternate Trade Names Composition / Information on Ingredients: Ingredients 4. First Aid Measures: Skin contact 4. First Aid Measures: Inhalation 5. Fire Fighting Measures: Suitable extinguishing media 8. Exposure Controls / Personal Protection: Engineering controls 9. Physical & Chemical Properties: Other information 11. Toxicological Information: Further information 13. Disposal Considerations: Disposal instructions 14. Transport Information: Further information 15. Regulatory Information: Other information
Manufacturer information	Hewlett-Packard Company 3000 Hanover Street Palo Alto, California 94304-1112 US (Direct) 1-503-494-7199 (Toll-free within the US) 1-800-457-4209

Explanation of abbreviations

ACGIHAmerican Conference of Governmental Industrial HygienistsCASChemical Abstracts ServiceCERCLAComprehensive Environmental Response Compensation and Liability ActCFRCode of Federal Regulations
CERCLA Comprehensive Environmental Response Compensation and Liability Act
Cede et Eederal Degulations
CFR Code of Federal Regulations
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