CB337 Series[C]-MSDS_US-English-07.pdf

CB337 Series[M]-MSDS_US-English-06.pdf

CB337 Series[Y]-MSDS_US-English-06.pdf



1. Product and Company	v Identification
Identification of the preparation	CB337 Series[C]
Product use	Inkjet printing
Version #	06
Revision date	13-Dec-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	1
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>Alkyldiol ethoxylate</i> Contact with skin may result in severe irritation.
	<i>Ethyl alkyldiol</i> Contact with skin may result in mild irritation. <i>Metal nitrate # 2</i> Contact with skin may result in 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>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. <i>Metal nitrate # 2</i> Contact with eyes may result in irritation.
Inhalation	<i>2-pyrrolidone</i> Inhalation may result in respiratory irritation. <i>Metal nitrate # 2</i> Inhalation may result in respiratory irritation.

Ingestion	2-pyrrolidone Ingestion may result in nausea, vomiting and diarrhea. <i>Alkyldiol ethoxylate</i> Ingestion may cause irritation of mouth, throat, nausea, vomiting and diarrhea. <i>Metal nitrate # 2</i>
Potential health effects	Contains nitrate salts, may cause methemoglobinemia.
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.

Components		CAS #	Percent
1,5-pentanediol		111-29-5	< 10
2-pyrrolidone		616-45-5	< 7.5
Alkyldiol ethoxylate		Proprietary	< 2.5
Ethyl alkyldiol		Proprietary	< 7.5
Metal nitrate # 2		Proprietary	< 5
Substituted phthalocyanine salt #	4	Proprietary	< 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 least 15 minutes or until particles are re-		
Skin contact	Wash affected areas thoroughly with mil attention.	ld soap and water. If irritation pe	rsists get medical
Inhalation	Move to fresh air. If symptoms persist, g	get medical attention.	
Ingestion	If ingestion of a large amount does occu	Ir, seek medical attention.	
General advice	No additional information		
5. Fire Fighting Measure	s		
Flammable properties	None known.		
Extinguishing media			
Suitable extinguishing media	For small (incipient) fires, use media suc For large fires use very large (flooding)		
Unsuitable extinguishing media	None known.		
Specific methods	None established.		
Hazardous combustion	Refer to section 10.		

6. Accidental Release Measures

Personal precautions

products

Wear appropriate personal protective equipment.

3. Composition / Information on Ingredients

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.

nanunng	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 Engineering controls	Exposure limits have not been established for this product. Use in a well ventilated area.
Personal protective equipment 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

9. Physical & Chemical P	roperties
Appearance	Not available.
Color	Cyan
Odor	Not available.
Odor threshold	Not available.
Physical state	Liquid
Form	Not available.
рН	6.2
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 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	< 221 g/L
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.

11. Toxicological Informa	ation
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 Informatio	on and a second s
Aquatic toxicity	LC50/96h/Fathead minnows =< 400 mg/L
Persistence and degradability	Not available.
13. Disposal Consideration	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 Informatio	n
Further information	Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.
DOT	
Not regulated as dangerous goods.	
ΙΑΤΑ	
Not regulated as dangerous goods.	
IMDG	
Not regulated as dangerous goods.	
RID	
Not regulated as dangerous goods.	
15. Regulatory Informati	on
-	US TSCA 12(b): Does not contain listed chemicals.
DEA Exempt Chemical Mixt	US TSCA 12(b): Does not contain listed chemicals.
DEA Exempt Chemical Mixe Not regulated. Drug Enforcement Adminis	US TSCA 12(b): Does not contain listed chemicals.
DEA Exempt Chemical Mixe Not regulated. Drug Enforcement Adminis Not regulated. Drug Enforcement Adminis Chemical Code Number Not listed.	US TSCA 12(b): Does not contain listed chemicals. tures Code Number 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
DEA Exempt Chemical Mixe Not regulated. Drug Enforcement Adminis Not regulated. Drug Enforcement Adminis Chemical Code Number Not listed. TSCA Section 12(b) Export	US TSCA 12(b): Does not contain listed chemicals. tures Code Number stration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))
DEA Exempt Chemical Mixe Not regulated. Drug Enforcement Adminis Not regulated. Drug Enforcement Adminis Chemical Code Number Not listed. TSCA Section 12(b) Export Not regulated.	US TSCA 12(b): Does not contain listed chemicals. tures Code Number 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 Notification (40 CFR 707, Subpt. D)
DEA Exempt Chemical Mixe Not regulated. Drug Enforcement Adminis Not regulated. Drug Enforcement Adminis Chemical Code Number Not listed. TSCA Section 12(b) Export Not regulated. CERCLA (Superfund) reportabl None	US TSCA 12(b): Does not contain listed chemicals. tures Code Number 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 Notification (40 CFR 707, Subpt. D) e quantity
DEA Exempt Chemical Mixe Not regulated. Drug Enforcement Adminis Not regulated. Drug Enforcement Adminis Chemical Code Number Not listed. TSCA Section 12(b) Export Not regulated. CERCLA (Superfund) reportabl None	US TSCA 12(b): Does not contain listed chemicals. tures Code Number 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 Notification (40 CFR 707, Subpt. D) e quantity
DEA Exempt Chemical Mixt Not regulated. Drug Enforcement Adminis Not regulated. Drug Enforcement Adminis Chemical Code Number Not listed. TSCA Section 12(b) Export Not regulated. CERCLA (Superfund) reportabl None Occupational Safety and Health 29 CFR 1910.1200 hazardous chemical	US TSCA 12(b): Does not contain listed chemicals. tures Code Number 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 E Notification (40 CFR 707, Subpt. D) e quantity h Administration (OSHA)
Not regulated. Drug Enforcement Adminis Not regulated. Drug Enforcement Adminis Chemical Code Number Not listed. TSCA Section 12(b) Export Not regulated. CERCLA (Superfund) reportabl None Occupational Safety and Health 29 CFR 1910.1200 hazardous chemical	US TSCA 12(b): Does not contain listed chemicals. tures Code Number 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 Rotification (40 CFR 707, Subpt. D) e quantity h Administration (OSHA) No

Section 311 hazardous chemical	No
State regulations	
US. Massachusetts RTK -	Substance List
2-pyrrolidone (CAS 616-	-45-5)
US. New Jersey Worker a	Ind Community Right-to-Know Act
Not regulated. US. Pennsylvania RTK - H	lazardous Substances
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	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). VOC content (less water, less exempt compounds) = $< 697 \text{ g/L}$ (U.S. requirement, not for emissions)
	VOC data based on formulation (Organic compounds minus solids)
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: 1 Physical hazard: 0
NFPA ratings	Health: 1 Flammability: 1 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	13-Dec-2012
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	-
Identification of the preparation	CB337 Series[M]
Product use	Inkjet printing
Version #	06
Revision date	14-Dec-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>Alkyldiol ethoxylate</i> Contact with skin may result in severe irritation.
	<i>Ethyl alkyldiol</i> Contact with skin may result in mild irritation.
	<i>Metal nitrate # 2</i> Contact with skin may result in irritation.
Eye contact	1,5-pentanediol Contact with eyes may result in irritation.
	<i>2-pyrrolidone</i> Contact with eyes may result in irritation.
	<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.
	<i>Metal nitrate # 2</i> Contact with eyes may result in irritation.
	Substituted naphthalenesulfonate salt # 11 Contact with eyes may result in irritation.
Inhalation	<i>2-pyrrolidone</i> Inhalation may result in respiratory irritation. <i>Metal nitrate # 2</i> Inhalation may result in respiratory irritation.

Ingestion	 2-pyrrolidone Ingestion may result in nausea, vomiting and diarrhea. Alkyldiol ethoxylate Ingestion may cause irritation of mouth, throat, nausea, vomiting and diarrhea. Metal nitrate # 2 Contains nitrate salts, may cause methemoglobinemia.
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 / Inform	ation on Ingredients		
Components		CAS #	Percent
1,5-pentanediol		111-29-5	< 10
2-pyrrolidone		616-45-5	< 7.5
Alkyldiol ethoxylate		Proprietary	< 2.5
Ethyl alkyldiol		Proprietary	< 10
Metal nitrate # 2		Proprietary	< 5
Substituted naphthalenesulfonate	salt # 11	Proprietary	< 5
Water		7732-18-5	> 60
Composition comments	This ink supply contains an aqueous ink for This product has been evaluated using cri Communication Standard).		1200 (Hazard
4. First Aid Measures			
First aid procedures			
Eye contact	Do not rub eyes. Immediately flush with l least 15 minutes or until particles are rem		
Skin contact	Wash affected areas thoroughly with mild develops or persists.	l soap and water. Get medical a	attention if irritation
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 Measure	S		
Flammable properties	None known.		
Extinguishing media			
Suitable extinguishing media	Dry chemical, CO2, water spray or regula	r 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	

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	None established.
Engineering controls	Use in a well ventilated area.
Personal protective equipment	
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

9. Physical & Chemical P	ropercies	
Appearance	Not available.	
Color	Magenta	
Odor	Not available.	
Odor threshold	Not available.	
Physical state	Liquid	
Form	Not available.	
рН	6.2	
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 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	< 221 g/L	
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 Informa	ation
Serious eye damage/eye irritation	Not available.
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 Informatio	n
Aquatic toxicity	LC50/96h/Fathead minnows =< 400 mg/L
Persistence and degradability	Not available.
13. Disposal Consideration	 DNS
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.	
IATA	
Not regulated as dangerous goods.	
IMDG	
Not regulated as dangerous goods.	
RID	
Not regulated as dangerous goods.	
15. Regulatory Informati	on
US federal regulations	US TSCA 12(b): Does not contain listed chemicals.
DEA Exempt Chemical Mixt	ures Code Number
Not regulated. Drug Enforcement Adminis Chemical Code Number Not listed.	stration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))
TSCA Section 12(b) Export Not regulated.	Notification (40 CFR 707, Subpt. D)
CERCLA (Superfund) reportable None	e quantity
Occupational Safety and Healt	h Administration (OSHA)
29 CFR 1910.1200 hazardous chemical	No
Superfund Amendments and R	eauthorization 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	Pressure Hazard - No

State regulations US. Massachusetts RTK - 2 2-pyrrolidone (CAS 616-4 US. New Jersey Worker an Not regulated. US. Pennsylvania RTK - H 2-pyrrolidone (CAS 616-4	45-5) nd Community Right-to-Know Act azardous Substances
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.
Other information	VOC content (less water, less exempt compounds) = < 674 g/L (U.S. requirement, not for emissions) VOC data based on formulation (Organic compounds minus solids)
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: 1 Physical hazard: 0
NFPA ratings	Health: 1 Flammability: 1 Instability: 0
Disclaimer	This Safety Data Sheet document is provided without charge to customers of Hewlett-Packarc 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	14-Dec-2012
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 Company	y Identification
Identification of the preparation	CB337 Series[Y]
Product use	Inkjet printing
Version #	06
Revision date	15-Dec-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	n
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>Alkyldiol ethoxylate</i> Contact with skin may result in severe irritation.
	<i>Ethyl alkyldiol</i> Contact with skin may result in mild irritation.
	<i>Metal nitrate # 2</i> Contact with skin may result in irritation.
	<i>Substituted naphthalenesulfonate salt # 13</i> Contact with skin may result in 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>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.
	<i>Metal nitrate # 2</i> Contact with eyes may result in irritation.
	Substituted naphthalenesulfonate salt # 13 Contact with eyes may result in irritation.

Inhalation	<i>2-pyrrolidone</i> Inhalation may result in respiratory irritation.
	<i>Metal nitrate # 2</i> Inhalation may result in respiratory irritation.
	Substituted naphthalenesulfonate salt # 13 Inhalation may result in respiratory irritation.
Ingestion	<i>2-pyrrolidone</i> Ingestion may result in nausea, vomiting and diarrhea.
	<i>Alkyldiol ethoxylate</i> Ingestion may cause irritation of mouth, throat, nausea, vomiting and diarrhea.
	<i>Metal nitrate # 2</i> Contains nitrate salts, may cause methemoglobinemia.
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	< 10
2-pyrrolidone		616-45-5	< 7.5
Alkyldiol ethoxylate		Proprietary	< 2.5
Ethyl alkyldiol		Proprietary	< 10
Metal nitrate # 2		Proprietary	< 5
Substituted naphthalenesulfonal	e salt # 13	Proprietary	< 7.5
Water		7732-18-5	> 60
Composition comments	This ink supply contains an aqueous ink This product has been evaluated using c Communication Standard).		1200 (Hazarc
4. First Aid Measures			
First aid procedures			
Eye contact	Do not rub eyes. Immediately flush with least 15 minutes or until particles are ren		
Skin contact	Wash affected areas thoroughly with mil develops or persists.	d soap and water. Get medical a	ttention if irritation
Inhalation	Remove to fresh air. If symptoms persist	t, get medical attention.	
Ingestion	If ingestion of a large amount does occu	r, seek medical attention.	
General advice	No additional information		
5. Fire Fighting Measur	es		
Flammable properties	None known.		
Extinguishing media			
Suitable extinguishing	Dry chemical, CO2, water spray or regul	ar foam.	

Unsuitable extinguishing None known.

media

media

Specific methods	None established.	
Hazardous combustion products	Refer to section 10.	
6. Accidental Release M	easures	
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	3	
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 / F	Personal Protection	
Exposure guidelines	None established.	
Engineering controls	Use in a well ventilated area.	
Personal protective equipment	nt	
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 I	Properties	
Appearance	Not available.	
Color	Yellow	
Odor	Not available.	
Odor threshold	Not available.	
Physical state	Liquid	
Form	Not available.	
рН	6.2	
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 limits in air, upper, % by volume	Not available.	
Flammability limits in air, lower, % by volume	Not determined	

Not determined

Not available.

Not available.

Soluble in water

1

Vapor pressure

Specific gravity

Relative density

VOC

Solubility (water)

Vapor density

Chemical stability Stable under recommended storage conditions. Incompatible materials Incompatible with strong bases and oxidizing agents. Hearndous decomposition, the product may yield gaseous nitrogen oxides, carbon monoxide, car dioxide and/or low molecular weight hydrocarbons. Possibility of hazardous Will not occur. reactions Nat 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. Image: Compatible with strong bases of momental health effects and Section 4 for first aid measures. 13. Disposal Considerations Dispose of in compliance with federal, state, and local regulations. HP P Planet Partners (trademark) supplies recycling program enables simple, convenient rec of HP original inkjet and LaseIde supplies. For more information and to determine if this is a valiable in your location, please visit http://www.hp.com/recycle. 14. Transport Information Not a dangerous good under DOT, IATA, ADR, IMDG, or RID. POT Not regulated as dangerous goods. RID Not regulated as dangerous goods. IS REQulatory Information Not a dangerous good under DOT, IATA, ADR, IMDG, or RID. POT Not regulated as dangerous goods. ID Store out contain listed chemicals. DE Exempt Chemical Mixtures Code Number	10. Chemical Stability &	Reactivity Information
Incompatible materials Incompatible with strong bases and oxidizing agents. Hazardous decomposition products Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, car dioxide and/or low molecular weight hydrocarbons. Possibility of hazardous Will not occur. reactions Will not occur. To train the 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. To Ecological Information Aquatic toxicity Aquatic toxicity UCS0/96h/Fathead minnows =< 400 mg/L Persistence and degradability Not available. 13. Disposal Considerations Dispose of in compliance with federal, state, and local regulations. HP's Planet Partners (trademark) supplies recycling program enables simple, convenient rec of HP original inkjet and LaserJet supplies. For more information and to determine if this s is available in your location, please visit http://www.hp.com/recycle. Vot regulated as dangerous goods. IMT RDG Not a dangerous good under DOT, JATA, ADR, IMDG, or RID. DT Not regulated as dangerous goods. RID Not regulated as dangerous goods. RID Not regulated as dangerous goods. DIA regulated as dangerous goods. STCA 12(b): Does not contain listed chemicals.	•	-
Hzardous decomposition products Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, car dioxide and/or low molecular weight hydrocarbons. Possibility of hazardous reactions Will not occur. II. Toxicological Information Serious eye damage/eye irritation Not available. This ink formulation has not been tested for toxicological effects. Refer to Section 2 for potential health effects and Section 4 for first ald measures. Refer to Section 2 for potential health effects and Section 4 for first ald measures. Refer to Section 2 for potential health effects and Section 4 for first ald measures. Refer to Section 2 for potential health effects and Section 4 for first ald measures. Refer to Section 2 for potential health effects and Section 4 for first ald measures. Refer to Section 2 for potential health effects and Section 4 for first ald measures. Refer to Section 2 for potential health effects and Section 4 for first ald measures. Refer to Section 2 for potential health effects. Refer to Section 1 formation Disposal instructions Disposal instructions Disposal instructions Not a dangerous good under DOT, IATA, ADR, IMDG, or RID. DOT Not regulated as dangerous goods. RID Not regulated as dangerous goods. RID Not regulated as dangerous goods. RID DEA Exempt Chemical Wixtures Code Number Not regulated. Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.02(b) and 1310.04(f)(2) a Chemical Code Number Not regulated. Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) a Chemical Code Number Not regulated. CERCLA (Superfund) reportable guantity Nore	-	-
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		e quantity
29 CFR 1910 1200 No	Occupational Safety and Healt	h Administration (OSHA)
hazardous chemical	29 CFR 1910.1200 hazardous chemical	No

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	
State regulations		
US. Massachusetts RTK -	Substance List	
2-pyrrolidone (CAS 616-	45-5)	
	nd Community Right-to-Know Act	
Not regulated.		
US. Pennsylvania RTK - H	lazardous Substances	
2-pyrrolidone (CAS 616-	-45-5) Listed.	
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.	
Other information	VOC content (less water, less exempt compounds) = < 663 g/L (U.S. requirement, not for emissions) VOC data based on formulation (Organic compounds minus solids)	

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: 1 Physical hazard: 0
NFPA ratings	Health: 1 Flammability: 1 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	15-Dec-2012
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