

# **SAFETY DATA SHEET**

# 1. Identification

Product identifier	CH561Series
Other means of identification	Not available.
Recommended use	Inkjet printing
<b>Recommended restrictions</b>	None known.
Company identification	HP 1501 Page Mill Road Palo Alto, CA 94304-1112 United States Telephone 650-857-5020 HP health effects line (Toll-free within the US) 1-800-457-4209 (Direct) 1-760-710-0048 HP Customer Care Line (Toll-free within the US) 1-800-474-6836 (Direct) 1-208-323-2551 Email: hpcustomer.inquiries@hp.com
2. Hazard(s) identification	n

# 2. Hazard(s) identification

Physical hazards	Not classified.
Health hazards	Not classified.
Environmental hazards	Not classified.
OSHA defined hazards	Not classified.
Label elements	
Hazard symbol	None.
Signal word	None.
Hazard statement	Not available.
Precautionary statement	
Prevention	Not available.
Response	Not available.
Storage	Not available.
Disposal	Not available.
Hazard(s) not otherwise classified (HNOC)	Carbon black is classified by the IARC as a Group 2B carcinogen (the substance is possibly carcinogenic to humans). Carbon black in this preparation, due to its bound form, does not present this carcinogenic risk. 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. None of the other ingredients in this preparation are classified as carcinogens according to ACGIH, EU, IARC, MAK, NTP or OSHA.
Supplemental information	This product is not classified as hazardous according to OSHA CFR 1910.1200 (HazCom 2012).

# 3. Composition/information on ingredients

#### Mixtures

Chemical name	Common name and synonyms	CAS number	%
Water		7732-18-5	75-85
2-pyrrolidone		616-45-5	< 10
1,5-pentanediol		111-29-5	< 5
Modified carbon black		Proprietary	< 5

Chemical name	Common name and synonyms	CAS number	%
Modified carbon black #2		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).		
	Carbon black is present only in a bound form in t	his preparation.	
4. First-aid measures			
Inhalation	Remove to fresh air. If symptoms persist, get me	dical attention.	
Skin contact	Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation develops or persists.		
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.		
Ingestion	If ingestion of a large amount does occur, seek m	nedical attention.	
Most important symptoms/effects, acute and delayed	Not available.		
5. Fire-fighting measures	5		
Suitable extinguishing media	Dry chemical, CO2, water spray or regular foam.		
Unsuitable extinguishing media	None known.		
Specific hazards arising from the chemical	Not applicable.		
Special protective equipment and precautions for firefighters	Not available.		
Specific methods	None established.		
6. Accidental release mea	asures		
Personal precautions, protective equipment and emergency procedures	Wear appropriate personal protective equipment.		
Methods and materials for containment and cleaning up	Dike the spilled material, where this is possible. A or diatomaceous earth, commercial sorbents, or r		nt such as dry clay, sai
Environmental precautions	Do not let product enter drains. Do not flush into surface water or sanitary sewer system.		
7. Handling and storage			
Precautions for safe handling	Avoid contact with skin, eyes and clothing.		
Conditions for safe storage, including any incompatibilities	Keep out of the reach of children. Keep away from	n excessive heat or cold.	
8. Exposure controls/per	sonal protection		
Occupational exposure limits	No exposure limits noted for ingredient(s).		
Biological limit values	No biological exposure limits noted for the ingred	ient(s).	
Exposure guidelines	Exposure limits have not been established for this	s product.	
Appropriate engineering controls	Use in a well ventilated area.		
-	s, such as personal protective equipment		
Eye/face protection	Not available.		
Skin protection			
Hand protection	Not available.		
Other	Not available.		
Respiratory protection	Not available.		
Thermal hazards	Not available.		

## 9. Physical and chemical properties

Appearance	
Physical state	Not available.
Color	Black.
Odor	Not available.
Odor threshold	Not available.
рН	7.5 - 8.2
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not determined
Flash point	> 230.0 °F (> 110.0 °C) Setaflash Closed Cup
Evaporation rate	Not determined
Flammability (solid, gas)	Not available.
Upper/lower flammability or e	explosive limits
Flammability limit - lower (%)	Not determined
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not determined
Solubility(ies)	
Solubility (water)	Soluble in water
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	>= 2 cp
Other information	For other VOC regulatory data/information see Section 15.
VOC (Weight %)	< 147 g/l

## 10. Stability and reactivity

Reactivity Chemical stability Possibility of hazardous reactions	Not available. Stable under recommended storage conditions. Will not occur.
Conditions to avoid	Not available.
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 information

Symptoms related to the physical, chemical and toxicological characteristics	Not available.
Information on toxicological ef	fects
Acute toxicity	Based on available data, the classification criteria are not met.
Skin corrosion/irritation	Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation	Based on available data, the classifi	cation criteria are not met.
Respiratory or skin sensitization	on	
<b>Respiratory sensitization</b>	Based on available data, the classifi	cation criteria are not met.
Skin sensitization	Based on available data, the classifi	cation criteria are not met.
Germ cell mutagenicity	Based on available data, the classifi	cation criteria are not met.
Carcinogenicity	Based on available data, the classifi	cation criteria are not met.
	2B) and by the State of California u organizations indicate that exposure	nogen by the IARC (possibly carcinogenic to humans, Group nder Proposition 65. In their evaluations of carbon black, both e to carbon black, per se, does not occur when it remains cifically, rubber, ink, or paint. Carbon black is present only in a
Reproductive toxicity	Based on available data, the classifi	cation criteria are not met.
Specific target organ toxicity - single exposure	Based on available data, the classifi	cation criteria are not met.
Specific target organ toxicity - repeated exposure	Based on available data, the classifi	cation criteria are not met.
Aspiration hazard	Based on available data, the classifi	cation criteria are not met.
Further information	Complete toxicity data are not avail Refer to Section 2 for potential hea	able for this specific formulation Ith effects and Section 4 for first aid measures.
Components	Species	Test Results
2-pyrrolidone (CAS 616-45-5)		
Acute		
Oral		
LD50	Guinea pig	6500 mg/kg
	Rat	6500 mg/kg

# 12. Ecological information

Aquatic toxicity	Not expected to be harmful to aquatic organisms.
	in the second se

quarte conterty	not expected	to be number to aquatic organisms.	
cotoxicity		<b>a</b>	
Product		Species	Test Results
CH561Series (CAS Mixture)			
Aquatic			
Acute			
Fish	LC50	Fathead minnow (Pimephales promelas)	> 750 mg/l, 96 hours
Components		Species	Test Results
2-pyrrolidone (CAS 616-45-5)	)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia pulex)	13.21 mg/l, 48 hours
ersistence and degradability	Not available.		
ioaccumulative potential	Not available.		
Partition coefficient n-oct	anol / water (l	og Kow)	
2-pyrrolidone	- •	-0.85	
lobility in soil	Not available.		
ther adverse effects	Not available.		

# 13. Disposal considerations

Disposal instructions	Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.
	Do not allow this material to drain into sewers/water supplies. 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

#### DOT

Not regulated as dangerous goods.

#### IATA

Not regulated as dangerous goods.

#### IMDG

Not regulated as dangerous goods.

### ADR

Not regulated as dangerous goods.

**Further information** Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.

## 15. Regulatory information

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

	US ISCA 12(D): Does not contain listed chemicals.
TSCA Section 12(b) Export	t Notification (40 CFR 707, Subpt. D)
Not regulated.	
CERCLA Hazardous Substa	nce List (40 CFR 302.4)
Not listed.	
SARA 304 Emergency relea	ase notification
Not regulated.	
	ed Substances (29 CFR 1910.1001-1050)
Not listed.	
	eauthorization Act of 1986 (SARA)
Hazard categories	Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No
SABA 202 Extramaly baza	
SARA 302 Extremely hazar Not listed.	
	Na
SARA 311/312 Hazardous chemical	No
Other federal regulations	
Safe Drinking Water Act (SDWA)	Not regulated.
US state regulations	
US. Massachusetts RTK - S	Substance List
2-pyrrolidone (CAS 616-4 US. New Jersey Worker an	5-5) I <b>d Community Right-to-Know Act</b>
Not listed.	
US. Pennsylvania Worker a	and Community Right-to-Know Law
2-pyrrolidone (CAS 616-4	5-5)
US. Rhode Island RTK	
Not regulated.	
US. California Proposition ( Not Listed.	65
04h au infannatian	VOC content (less water, less exempt compounds) = $<709$ g/L (U.S. requirement, not for emissions) VOC data based on formulation (Organic compounds minus solids)
Other information	) VOC data based on formulation (organic compounds minus solids)

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Issue date		08-Apr-2015
Revision date		01-Sep-2015

Material name: CH561Series 8934 Version #: 03 Revision date: 01-Sep-2015 Issue date: 08-Apr-2015

Version #	03
Disclaimer	This Safety Data Sheet document is provided without charge to customers of HP. Data is the most current known to HP 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.
Manufacturer information	HP 1501 Page Mill Road Palo Alto, CA 94304-1112 US Direct 1-650-857-5020
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

Toxic Substances Control Act Volatile Organic Compounds

TSCA

VOC

CH562Series[C][3]-SDS\_US-English-23.pdf

CH562Series[M][3]-SDS\_US-English-23.pdf

CH562Series[Y][3]-SDS\_US-English-23.pdf



# **SAFETY DATA SHEET**

# 1. Identification

Product identifier	CH562Series[C][3]
Other means of identification	Not available.
Recommended use	Inkjet printing
<b>Recommended restrictions</b>	None known.
Company identification	HP 1501 Page Mill Road Palo Alto, CA 94304-1112 United States Telephone 650-857-5020 HP health effects line (Toll-free within the US) 1-800-457-4209 (Direct) 1-760-710-0048 HP Customer Care Line (Toll-free within the US) 1-800-474-6836 (Direct) 1-208-323-2551 Email: hpcustomer.inquiries@hp.com

## 2. Hazard(s) identification

Physical hazards	Not classified.
Health hazards	Not classified.
Environmental hazards	Not classified.
OSHA defined hazards	Not classified.
Label elements	
Hazard symbol	None.
Signal word	None.
Hazard statement	Not available.
Precautionary statement	
Prevention	Not available.
Response	Not available.
Storage	Not available.
Disposal	Not available.
Hazard(s) not otherwise classified (HNOC)	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.
Supplemental information	This product is not classified as hazardous according to OSHA CFR 1910.1200 (HazCom 2012).

### Supplemental information

### 3. Composition/information on ingredients

Mixtures
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Chemical name	Common name and synonyms	CAS number	%
Water		7732-18-5	70-95
Copper phthalocyanine direc salt	t dye	Proprietary	< 5
magnesium nitrate hexahyd	rate	13446-18-9	< 2.5
Composition comments	This ink supply contains an aqueous ink formulat This product has been evaluated using criteria sp		200 (Hazard

Communication Standard).

4. First-aid measures	
Inhalation	Remove to fresh air. If symptoms persist, get medical attention.
Skin contact	Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation develops or persists.
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.
Ingestion	If ingestion of a large amount does occur, seek medical attention.
Most important symptoms/effects, acute and delayed	Not available.

## 5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing media	Dry chemical, CO2, water spray or regular foam. None known.
Specific hazards arising from the chemical	Not applicable.
Special protective equipment and precautions for firefighters	Not available.
Specific methods	None established.

## 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Wear appropriate personal protective equipment.
Methods and materials for containment and cleaning up	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.
Environmental precautions	Do not let product enter drains. Do not flush into surface water or sanitary sewer system.

## 7. Handling and storage

Precautions for safe handling	Avoid contact with skin, eyes and clothing.
Conditions for safe storage, including any incompatibilities	Keep out of the reach of children. Keep away from excessive heat or cold.

## 8. Exposure controls/personal protection

Occupational exposure limits	No exposure limits noted for ingredient(s).	
<b>Biological limit values</b>	No biological exposure limits noted for the ingredient(s).	
Exposure guidelines	Exposure limits have not been established for this product.	
Appropriate engineering controls	Use in a well ventilated area.	
Individual protection measures, such as personal protective equipment		
Eye/face protection	Not available.	
Skin protection		
Hand protection	Not available.	
Other	Not available.	
<b>Respiratory protection</b>	Not available.	
Thermal hazards	Not available.	
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.	

## 9. Physical and chemical properties

#### Appearance

Physical state	Liquid
Color	Cyan

Odor	Not available.
Odor threshold	Not available.
pH	8 - 8.4
Melting point/freezing point	Not available.
Initial boiling point and	Not determined
boiling range	
Flash point	> 200.0 °F (> 93.3 °C) Pensky-Martens Closed Cup
Evaporation rate	Not determined
Flammability (solid, gas)	Not available.
Upper/lower flammability or e	xplosive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not determined
Solubility(ies)	
Solubility (water)	Soluble in water
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	<= 2 cp
Other information	For other VOC regulatory data/information see Section 15.
VOC (Weight %)	< 156 g/L

# 10. Stability and reactivity

Reactivity Chemical stability	Not available. Stable under recommended storage conditions.
Possibility of hazardous reactions	Will not occur.
Conditions to avoid	Not available.
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 information

Symptoms related to the physical, chemical and toxicological characteristics	Not available.	
Information on toxicological e	ffects	
Acute toxicity	Based on available data, the classification criteria are not met.	
Skin corrosion/irritation	Based on available data, the classification criteria are not met.	
Serious eye damage/eye irritation	Based on available data, the classification criteria are not met.	
Respiratory or skin sensitization		
<b>Respiratory sensitization</b>	Based on available data, the classification criteria are not met.	
Skin sensitization	Based on available data, the classification criteria are not met.	
Germ cell mutagenicity	Based on available data, the classification criteria are not met.	
Carcinogenicity	Based on available data, the classification criteria are not met.	

Reproductive toxicity	Based on available data, the classification criteria are not met.
Specific target organ toxicity - single exposure	Based on available data, the classification criteria are not met.
Specific target organ toxicity - repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	Based on available data, the classification criteria are not met.
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	This product has not been tested for ecological effects.
Persistence and degradability	Not available.
<b>Bioaccumulative potential</b>	Not available.
Mobility in soil	Not available.
Other adverse effects	Not available.
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#### **13.** Disposal considerations

 Disposal instructions
 Do not dispose of together with general office waste.

 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

#### DOT

Not regulated as dangerous goods.

# IATA

Not regulated as dangerous goods.

#### IMDG

Not regulated as dangerous goods.

#### ADR

Not regulated as dangerous goods.

**Further information** Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.

#### 15. Regulatory information

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

#### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated. CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

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Not regulated.
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OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

#### 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

#### SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312	No
Hazardous chemical	
Other federal regulations	
Safe Drinking Water Act (SDWA)	Not regulated.
US state regulations	
US. Massachusetts RTK - S	Substance List
Not regulated.	
	nd Community Right-to-Know Act
Not listed.	
-	and Community Right-to-Know Law
Not listed. US. Rhode Island RTK	
Not regulated.	
US. California Proposition Not Listed.	65
Other information	$\sqrt{00}$ contant (loss water loss arounds) = < 574 g/L (115 requirement not for
Other Information	VOC content (less water, less exempt compounds) = $< 574$ g/L (U.S. requirement, not for emissions)
	VOC data based on formulation (Organic compounds minus solids)
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, ir	ncluding date of preparation or last revision
Issue date	07-Oct-2014
Revision date	30-Aug-2015
Version #	03
Disclaimer	This Safety Data Sheet document is provided without charge to customers of HP. Data is the most current known to HP 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.
Manufacturer information	HP 1501 Page Mill Road Palo Alto, CA 94304-1112 US Direct 1-650-857-5020

#### 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



# SAFETY DATA SHEET

# 1. Identification

Product identifier	CH562Series[M][3]
Other means of identification	Not available.
Recommended use	Inkjet printing
<b>Recommended restrictions</b>	None known.
Company identification	HP 1501 Page Mill Road Palo Alto, CA 94304-1112 United States Telephone 650-857-5020 HP health effects line (Toll-free within the US) 1-800-457-4209 (Direct) 1-760-710-0048 HP Customer Care Line (Toll-free within the US) 1-800-474-6836 (Direct) 1-208-323-2551 Email: hpcustomer.inquiries@hp.com

## 2. Hazard(s) identification

Physical hazards	Not classified.
Health hazards	Not classified.
Environmental hazards	Not classified.
OSHA defined hazards	Not classified.
Label elements	
Hazard symbol	None.
Signal word	None.
Hazard statement	Not available.
Precautionary statement	
Prevention	Not available.
Response	Not available.
Storage	Not available.
Disposal	Not available.
Hazard(s) not otherwise classified (HNOC)	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.
Supplemental information	This product is not classified as hazardous according to OSHA CFR 1910.1200 (HazCom 2012).

### 3. Composition/information on ingredients

Mixtures			
Chemical name	Common name and synonyms	CAS number	%
Water		7732-18-5	65-85
2-pyrrolidone		616-45-5	< 7.5
Polycyclic sulfonic acid, TMA salt		Proprietary	< 7.5
magnesium nitrate hexahydrate		13446-18-9	< 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	

Inhalation	Remove to fresh air. If symptoms persist, get medical attention.
Skin contact	Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation develops or persists.
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.
Ingestion	If ingestion of a large amount does occur, seek medical attention.
Most important symptoms/effects, acute and delayed	Not available.

## 5. Fire-fighting measures

Suitable extinguishing media	Dry chemical, CO2, water spray or regular foam.
Unsuitable extinguishing media	None known.
Specific hazards arising from the chemical	Not applicable.
Special protective equipment and precautions for firefighters	Not available.
Specific methods	None established.
6 Accidental release me	2611596

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Wear appropriate personal protective equipment.
Methods and materials for containment and cleaning up	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.
Environmental precautions	Do not let product enter drains. Do not flush into surface water or sanitary sewer system.

## 7. Handling and storage

Precautions for safe handling	Avoid contact with skin, eyes and clothing.
Conditions for safe storage, including any incompatibilities	Keep out of the reach of children. Keep away from excessive heat or cold.

## 8. Exposure controls/personal protection

Occupational exposure limits	No exposure limits noted for ingredient(s).
<b>Biological limit values</b>	No biological exposure limits noted for the ingredient(s).
Exposure guidelines	Exposure limits have not been established for this product.
Appropriate engineering controls	Use in a well ventilated area.
Individual protection measures	s, such as personal protective equipment
Eye/face protection	Not available.
Skin protection	
Hand protection	Not available.
Other	Not available.
<b>Respiratory protection</b>	Not available.
Thermal hazards	Not available.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical and chemical properties

### Appearance

Physical state	Liquid.
Color	Magenta
Odor	Not available.
Odor threshold	Not available.
рН	8 - 8.4
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not determined
Flash point	> 200.0 °F (> 93.3 °C) Pensky-Martens Closed Cup
Evaporation rate	Not determined
Flammability (solid, gas)	Not available.
Upper/lower flammability or e	xplosive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not determined
Solubility(ies)	
Solubility (water)	Soluble in water
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	<= 2 cp
Other information	For other VOC regulatory data/information see Section 15.
VOC (Weight %)	< 156 g/L

# **10. Stability and reactivity**

Reactivity	Not available.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Will not occur.
Conditions to avoid	Not available.
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 information

Symptoms related to the physical, chemical and toxicological characteristics	Not available.	
Information on toxicological effects		
Acute toxicity	Based on available data, the classification criteria are not met.	
Skin corrosion/irritation	Based on available data, the classification criteria are not met.	
Serious eye damage/eye irritation	Based on available data, the classification criteria are not met.	

#### Respiratory or skin sensitization

Respiratory sensitization	Based on available data, the classification criteria are not met.
Skin sensitization	Based on available data, the classification criteria are not met.

Carcinogenicity       Based on available data, the classification criteria are not met.         Reproductive toxicity       Based on available data, the classification criteria are not met.         Specific target organ toxicity       Based on available data, the classification criteria are not met.         - indice exposure       Based on available data, the classification criteria are not met.         Specific target organ toxicity       Based on available data, the classification criteria are not met.         - repeated exposure       Based on available data, the classification criteria are not met.         Aspiration hazard       Based on available data, the classification criteria are not met.         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.         Components       Species       Test Results         2-pyrrolidone (CAS 616-45-5)       Kate       6500 mg/kg         Acute       Oral       Eotooingical information         Aquatic       This product has not been tested for ecological effects.         Ecotooicity       This product has not been tested for ecological effects.         Components       Species       Test Results         2-pyrrolidone (CAS 616-45-5)       Aquatic       Crustacea       EC50       Water flea (Daphnia pulex)       13.21 mg/l, 48 hours      <				
Reproductive toxicity       Based on available data, the classification criteria are not met.         Specific target organ toxicity       Based on available data, the classification criteria are not met.         - ingle exposure       Based on available data, the classification criteria are not met.         - repeated exposure       Based on available data, the classification criteria are not met.         - repeated exposure       Based on available data, the classification criteria are not met.         - repeated exposure       Complete toxicity data are not available for this specific formulation Refer to Section 4 for first aid measures.         Components       Species       Test Results         2-pyrrolidone (CAS 616-45-5)       Actie       Good         Acute       Consolution       Rat       6500 mg/kg         2-pyrrolidone (CAS 616-45-5)       Aquatic       Consolution       Consolution         2-pyrrolidone (CAS 616-45-5)       Aquatic       Consolution       Consolution         2-pyrrolidone (CAS 616-45-5)       Aquatic       Consolution       Not available.         Bioaccumulative potential       Not available.       Not available.       Not available.         Portition coefficient - octaol / water (log Kow)       2.21 mg/l, 48 hours       Portition coefficient - octaol / water (log Kow)         2-pyrrolidone       Not available.       Do not alispose of to	Germ cell mutagenicity	Based on available data, the classification criteria are not met.		
Specific target organ toxicity single exposure       Based on available data, the classification criteria are not met.         Specific target organ toxicity repeated exposure       Based on available data, the classification criteria are not met.         Specific target organ toxicity repeated exposure       Based on available data, the classification criteria are not met.         Specific target organ toxicity repeated exposure       Based on available data, the classification criteria are not met.         Components       Species       Test Results         2-pyrrolidone (CAS 616-45-5) Acute Card LD50       Guinea pig Rat       6500 mg/kg         Acute Card LD50       Guinea pig Rat       6500 mg/kg         2-pyrrolidone (CAS 616-45-5) Aquatic Crustacea       Species       Test Results         2-pyrrolidone (CAS 616-45-5) Aquatic Crustacea       Not available.       Do not allow the fies (Daphnia pulex)       13.21 mg/l, 48 hours         Persistence and degradability Boaccumulative potential       Not available.       Do not allow this material to drain into severs/water supples. Do not allow this material to drain into severs/water supples. Do not allow this material to drain into severs/water supples. Do not allow this material to drain into severs/water supples. Do not allow this material to drain into severs/water supples. Do not allow this material to drain into severs/water supples. Do not allow this material to drain into severs/water supples. Do not allow this material to drain into severs/water supples. Do not allow this material to drain into severes/water supples. Do not allow this materi				
<ul> <li>- single exposure</li> <li>- single exposure</li> <li>- Specific target organ toxicity</li> <li>- Based on available data, the classification criteria are not met.</li> <li>- repeated exposure</li> <li>Aspiration hazard</li> <li>Based on available data, the classification criteria are not met.</li> <li>- Complete toxicity data are not available for this specific formulation</li> <li>- Refer to Section 2 for potential health effects and Section 4 for first aid measures.</li> <li>- Components</li> <li>- Species</li> <li>- Test Results</li> <li>- Complete toxicity</li> <li>- Rat</li> <li>- Good mg/kg</li> <li>- Costo</li> <li>- Costo</li></ul>	•	Based on available data, the classification criteria are not met.		
<ul> <li>i-peated exposine</li> <li>Aspiration hazard</li> <li>Based on available data, the classification criteria are not met:</li> <li>Components</li> <li>Components</li> <li>Species</li> <li>Test Results</li> <li>Components</li> <li>Species</li> <li>Test Results</li> <li>Components</li> <li>Guinea pig</li> <li>G500 mg/kg</li> <li>Based on available for this specific formulation</li> <li>Ret 6500 mg/kg</li> <li>Ecological information</li> <li>Aquatic</li> <li>Components</li> <li>Species</li> <li>Test Results</li> <li>Components</li></ul>				
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.           Components         Species         Test Results           2-pyrrolidone (CAS 616-45-5)         Acute Oral LD50         Guinea pig         6500 mg/kg           Acute Oral LD50         Guinea pig         6500 mg/kg           Aquatic toxicity         This product has not been tested for ecological effects.           Components         Species         Test Results           2-pyrrolidone (CAS 616-45-5)         Aquatic Crustacea         EC50         Water flea (Daphnia pulex)         13.21 mg/l, 48 hours           Persistence and degradability         Not available.         Purrolidone         On a valiable.           Partition coefficient n-octanol / water flog Kow) 2-pyrrolidone         On ot available.         On ot dispose of together with general office waste.           Disposal instructions         Do not dispose of together with general office waste.         Do not dispose of together with general office waste.           Disposal instructions         Do not dispose of together with general office waste.         Or more information and to determine if this service available in your location, please visit http://www.hp.com/recycle.           14. Transport information wore regulated as dangerous goods.         More Not regulated as dangerous goods.         Not a dangerous goods.				
Refer to Section 2 for potential health effects and Section 4 for first aid measures. Components Species Components Species Components Species Test Results Components Species Test Results Components Component Componen	Aspiration hazard	Based on av	ailable data, the classification criteria	are not met.
2-pyrrolidone (CAS 616-45-5) Acute Orad LDS0 Guinea pig 6500 mg/kg 12. Ecological information Aquatic toxicity This product has not been tested for ecological effects. Ecotoxicity Components Species Test Results 2-pyrrolidone (CAS 616-45-5) Aquatic Crustacea EC50 Water flea (Daphnia pulex) 13.21 mg/l, 48 hours Persistence and degradability Not available. Bioaccumulative potential Not available. Bioaccumulative potential Not available. Bioaccumulative potential Not available. Bioaccumulative potential Not available. Disposal considerations Disposal instructions Do not dispose of together with general office waste. Do not dispose of together with general office waste. Do not dispose of together with general office waste. Do not dispose of together with general office waste. Disposal instructions Do not dispose of together with general office waste. Do not dispose of together with general office waste. Do not dispose of together with general office waste. Disposal instructions Do not dispose of together with general office waste. HP's Planet Partners (trademark) supplies recycling program enables simple, convenient recyc HP original inkjet and Laser-let supplies. For more information and to determine if this servic available in your location, please visit http://www.hp.com/recycle. 14. Transport information Dot Not regulated as dangerous goods. IMDG Not regulated as dangerous goods. IMDG Not regulated as dangerous goods. Further information Not a dangerous good under DOT, IATA, ADR, IMDG, or RID. 15. Regulatory information	Further information			
Acute       Oral         LDS0       Guinea pig       6500 mg/kg         12. Ecological information       Aquatic toxicity       This product has not been tested for ecological effects.         Ecotoxicity       Components       Species       Test Results         2-pyrrolidone (CAS 616-45-5)       Aquatic       Crustacea       EC50       Water flea (Daphnia pulex)       13.21 mg/l, 48 hours         Persistence and degradability       Not available.       Other adverse       0.85         Partition coefficient n-octanol / water (log Kow)       2-pyrrolidone       -0.85         Mobility in soil       Not available.       Other adverse         Other adverse effects       Not available.       Other adverse         Disposal instructions       Do not dispose of together with general office waste.       Do not allow this material to drain into sewers/water supplies. Dispose of waste material acco to Local, State, Federal, and Provincial Environmental Regulations.         HP's Planet Partners (trademark) supplies recycling program enables simple, convenient recyct HP original inkjet and LaserJet supplies. For more information and to determine if this servic available in your location, please visit http://www.hp.com/recycle.         14. Transport information       Dor       Not regulated as dangerous goods.         IMDG       Not regulated as dangerous goods.       ADR         Not regulated as dangerous goods. <th>Components</th> <th>Species</th> <th></th> <th>Test Results</th>	Components	Species		Test Results
Ora/ LDS0       Guinea pig Rat       6500 mg/kg         At       6500 mg/kg         12. Ecological information       Fast and the second secon	2-pyrrolidone (CAS 616-45-5)			
LD50 Guinea pig 6500 mg/kg Rat 6500 mg/kg 12. Ecological information Aquatic toxicity This product has not been tested for ecological effects. Ecotoxicity Species Test Results 2-pyrrolidone (CAS 616-45-5) Aquatic Crustacea EC50 Water flea (Daphnia pulex) 13.21 mg/l, 48 hours Persistence and degradability Not available. Bioaccumulative potential Not available. Bioaccumulative potential Not available. Deprrolidone -0.85 Mobility in soil Not available. 13. Disposal considerations Disposal instructions Do not dispose of together with general office waste. Do not allow this material to drain into sewers/water supplies. Dispose of waste material acco to Local, State, Federal, and Provincial Environmental Regulations. HP's Planet Partners (trademark) supplies recycling program enables simple, convenient recycl HP original inkjet and LaserJet supplies. For more information and to determine if this service available in your location, please visit http://www.hp.com/recycle. 14. Transport information DOT Not regulated as dangerous goods. IMD6 Not regulated as dangerous goods. IMD6 Not regulated as dangerous goods. IMD6 Not regulated as dangerous goods. IMD6 Not regulated as dangerous goods. IMD7 Not regulated as dangerous goods. IMD6 Not regulated as dangerous goods. IMD6 Not adangerous good under DOT, IATA, ADR, IMDG, or RID.	Acute			
Rat       6500 mg/kg         12. Ecological information       Aquatic toxicity         Aquatic toxicity       This product has not been tested for ecological effects.         Ecotoxicity       Components         Species       Test Results         2-pyrrolidone (CAS 616-45-5)       Aquatic         Crustacea       EC50       Water flea (Daphnia pulex)       13.21 mg/l, 48 hours         Persistence and degradability       Not available.       Bioaccumulative potential       Not available.         Partition coefficient n-octanol / water (log Kow)       2-pyrrolidone       -0.85         Abbility in soil       Not available.       -0.85         Disposal considerations       Do not dispose of together with general office waste. Do not allow this material to drain into sewers/water supplies. Dispose of waste material accor to Local, State, Federal, and Provincial Environmental Regulations.       HP's Planet Partners (trademark) supplies recycling program enables simple, convenient recycle HP's planet Partners (trademark) supplies. For more information and to determine if this servic available in your location, please visit http://www.hp.com/recycle.         14. Transport information       Not regulated as dangerous goods.         IMDG       Not regulated as dangerous goods.         IMDG       Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.         15. Regulatory information       Not a dangerous good under DOT, IATA, ADR, IMDG,	Oral			
12. Ecological information         Aquatic toxicity       This product has not been tested for ecological effects.         Ecotoxicity       Components       Species       Test Results         2-pyrrolidone (CAS 616-45-5)       Aquatic       Crustacea       ECS0       Water flea (Daphnia pulex)       13.21 mg/l, 48 hours         Persistence and degradability       Not available.       Bioaccumulative potential       Not available.         Partition coefficient n-octanol / water (log Kow)       2-pyrrolidone       -0.85         2-pyrolidone       -0.85       Mobility in soil       Not available.         Other adverse effects       Not available.       -0.85         Disposal considerations       Do not dispose of together with general office waste. Do not allow this material to drain into sewers/water supplies. Dispose of waste material acco to Local, State, Federal, and Provincial Environmental Regulations.         HP's Planet Partners (trademark) supplies recycling program enables simple, convenient recycling Program enables simple, convenient recycling vialable in your location, please visit http://www.hp.com/recycle.         14. Transport information       Or regulated as dangerous goods.         DOG       Not regulated as dangerous goods.         MDG       Not regulated as dangerous goods.         MDF       Not adangerous good under DOT, IATA, ADR, IMDG, or RID.         15. Regulatory information       <	LD50	Guinea pig	]	6500 mg/kg
Aquatic toxicity       This product has not been tested for ecological effects.         Ecotoxicity       Species       Test Results         2-pyrrolidone (CAS 616-45-5)       Aquatic Crustacea       EC50       Water flea (Daphnia pulex)       13.21 mg/l, 48 hours         Persistence and degradability       Not available.       Not available.         Bioaccumulative potential       Not available.       -0.85         Partition coefficient n-octanol / water (log Kow) 2-pyrolidone       -0.85         Other adverse effects       Not available.         Disposal considerations       Do not dispose of together with general office waste. Do not allow this material to drain into severs/water supplies. Dispose of waste material acco to Local, State, Federal, and Provincial Environmental Regulations.         HP's Planet Partners (trademark) supplies recycling program enables simple, convenient recyc HP original inkjet and LaserJet supplies. For more information and to determine if this servic available in your location, please visit http://www.hp.com/recycle.         IATA Not regulated as dangerous goods.       IMDG Not regulated as dangerous goods.         IMDG Not regulated as dangerous goods.       Kater and Repruse good under DOT, IATA, ADR, IMDG, or RID.         IS. Regulatory information       Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.		Rat		6500 mg/kg
Ecotoxicity       Species       Test Results         2-pyrrolidone (CAS 616-45-5)       Aquatic         Crustacea       EC50       Water flea (Daphnia pulex)       13.21 mg/l, 48 hours         Persistence and degradability       Not available.       Bioaccumulative potential       Not available.         Bioaccumulative potential       Not available.       -0.85       Mobility in soil       Not available.         Partition coefficient n-octanol / water (log Kow)       -0.85       -0.85       Mobility in soil       Not available.         Other adverse effects       Not available.       -0.85       -0.85       Do not dispose of together with general office waste.       Do not allout this material to drain into sewers/water supplies. Dispose of waste material acco to Local, State, Federal, and Provincial Environmental Regulations.         HP's Planet Partners (trademark) supplies recycling program enables simple, convenient recyc HP original inkjet and LaserJet supplies. For more information and to determine if this servic available in your location, please visit http://www.hp.com/recycle.         14. Transport information       Dot         DoT       Not regulated as dangerous goods.         IMDG       Not regulated as dangerous goods.         IMDG       Not regulated as dangerous goods.         IMDG       Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.         15. Regulatory information       Not	12. Ecological information	on		
Components         Species         Test Results           2-pyrrolidone (CAS 616-45-5) Aquatic Crustacea         EC50         Water flea (Daphnia pulex)         13.21 mg/l, 48 hours           Persistence and degradability Bioaccumulative potential         Not available.         13.21 mg/l, 48 hours           Partition coefficient n-otarrol / water (log Kow) 2-pyrrolidone         -0.85         14.000000000000000000000000000000000000	Aquatic toxicity	This product	has not been tested for ecological e	ffects.
2-pyrrolidone (CAS 616-45-5) Aquatic Crustacea EC50 Water flea (Daphnia pulex) 13.21 mg/l, 48 hours Persistence and degradability Not available. Bioaccumulative potential Not available. Partition coefficient n-octanol / water (log Kow) 2-pyrrolidone -0.85 Mobility in soil Not available. Other adverse effects Not available. 13. Disposal considerations Disposal instructions Do not dispose of together with general office waste. Do not allow this material to drain into sewers/water supplies. Dispose of waste material acco to Local, State, Federal, and Provincial Environmental Regulations. HP's Planet Partners (trademark) supplies recycling program enables simple, convenient recyc HP original inkjet and LaserJet supplies. For more information and to determine if this servic available in your location, please visit http://www.hp.com/recycle. 14. Transport information DOT Not regulated as dangerous goods. IMDG Not regulated as dangerous goods. ADR Not regulated as dangerous goods. Further information Not a dangerous good under DOT, IATA, ADR, IMDG, or RID. 15. Regulatory information	Ecotoxicity			
Aquatic Crustacea       EC50       Water flea (Daphnia pulex)       13.21 mg/l, 48 hours         Persistence and degradability Bioaccumulative potential       Not available.       Not available.         Partition coefficient n-octanol / water (log Kow) 2-pyrrolidone       -0.85         Mobility in soil       Not available.         Other adverse effects       Not available.         13. Disposal considerations       Do not dispose of together with general office waste. Do not allow this material to drain into sewers/water supplies. Dispose of waste material acco to Local, State, Federal, and Provincial Environmental Regulations.         HP's Planet Partners (trademark) supplies recycling program enables simple, convenient recyc HP original inkjet and Laser) supplies. For more information and to determine if this servic available in your location, please visit http://www.hp.com/recycle.         14. Transport information       Dor         DoT Not regulated as dangerous goods.       IMOG Not regulated as dangerous goods.         ADR Not regulated as dangerous goods.       ADR Not regulated as dangerous goods.         Further information       Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.         15. Regulatory information       Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.	Components		Species	Test Results
Custacea       ECS0       Water flea (Daphnia pulex)       13.21 mg/l, 48 hours         Persistence and degradability       Not available.       Not available.         Bioaccumulative potential       Not available.       -0.85         Partition coefficient n-octanol / water (log Kow) 2-pyrrolidone       -0.85         A-pyrrolidone       -0.85         Mobility in soil       Not available.         Other adverse effects       Not available.         J3.Disposal considerations       Do not dispose of together with general office waste. Do not allow this material to drain into sewers/water supplies. Dispose of waste material accor to Local, State, Federal, and Provincial Environmental Regulations.         HP's Planet Partners (trademark) supplies recycling program enables simple, convenient recyc HP original inkjet and LaserJet supplies. For more information and to determine if this servic available in your location, please visit http://www.hp.com/recycle.         14. Transport information DOT Not regulated as dangerous goods.       Not regulated as dangerous goods.         IMDG Not regulated as dangerous goods.       ADR Not regulated as dangerous goods.         ADR Not regulated as dangerous goods.       Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.         15. Regulatory information       Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.	2-pyrrolidone (CAS 616-45-5)	1		
Persistence and degradability       Not available.         Bioaccumulative potential       Not available.         Partition coefficient n-octanol / water (log Kow)       -0.85         A-pyrrolidone       -0.85         Mobility in soil       Not available.         13. Disposal considerations       Do not dispose of together with general office waste.         Do not allow this material to drain into sewers/water supplies. Dispose of waste material acco to Local, State, Federal, and Provincial Environmental Regulations.         HP's Planet Partners (trademark) supplies recycling program enables simple, convenient recycle HP original inkjet and LaserJet supplies. For more information and to determine if this service available in your location, please visit http://www.hp.com/recycle.         14. Transport information       Dot         DOT       Not regulated as dangerous goods.         IMDG       Not regulated as dangerous goods.         ADR       Not regulated as dangerous goods.         Further information       Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.         15. Regulatory information       Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.	Aquatic			
Bioaccumulative potential       Not available.         Partition coefficient n-octanol / water (log Kow) 2-pyrrolidone       -0.85         Mobility in soil       Not available.         Other adverse effects       Not available.         13. Disposal considerations       Do not dispose of together with general office waste. Do not allow this material to drain into sewers/water supplies. Dispose of waste material acco to Local, State, Federal, and Provincial Environmental Regulations.         HP's Planet Partners (trademark) supplies recycling program enables simple, convenient recyc HP original inkjet and LaserJet supplies. For more information and to determine if this servic available in your location, please visit http://www.hp.com/recycle.         14. Transport information DOT Not regulated as dangerous goods.         IMDG Not regulated as dangerous goods.         ADR Not regulated as dangerous goods.         Further information         Not regulated as dangerous goods.         Further information         Not regulated as dangerous goods.         ADR Not regulated as dangerous goods.         Further information         Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.         15. Regulatory information	Crustacea	EC50	Water flea (Daphnia pulex)	13.21 mg/l, 48 hours
Partition coefficient n-octanol / water (log Kow)       -0.85         2-pyrrolidone       -0.85         Mobility in soil       Not available.         Other adverse effects       Not available.         13. Disposal considerations       Do not dispose of together with general office waste. Do not allow this material to drain into sewers/water supplies. Dispose of waste material acco to Local, State, Federal, and Provincial Environmental Regulations.         HP's Planet Partners (trademark) supplies recycling program enables simple, convenient recyc HP original inkjet and LaserJet supplies. For more information and to determine if this service available in your location, please visit http://www.hp.com/recycle.         14. Transport information DOT Not regulated as dangerous goods.       Not regulated as dangerous goods.         IMDG Not regulated as dangerous goods.       Not regulated as dangerous goods.         Further information       Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.         15. Regulatory information       Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.	Persistence and degradability	Not available	2.	
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Mobility in soil       Not available.         Other adverse effects       Not available.         13. Disposal considerations       Do not dispose of together with general office waste. Do not allow this material to drain into sewers/water supplies. Dispose of waste material accor to Local, State, Federal, and Provincial Environmental Regulations.         Disposal instructions       Do not allow this material to drain into sewers/water supplies. Dispose of waste material accor to Local, State, Federal, and Provincial Environmental Regulations.         HP's Planet Partners (trademark) supplies recycling program enables simple, convenient recyc HP original inkjet and LaserJet supplies. For more information and to determine if this service available in your location, please visit http://www.hp.com/recycle.         14. Transport information DOT Not regulated as dangerous goods.       Not regulated as dangerous goods.         IMDG Not regulated as dangerous goods.       Not regulated as dangerous goods.         ADR Not regulated as dangerous goods.       Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.         15. Regulatory information       Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.		anol / water		
13. Disposal considerations         Disposal instructions       Do not dispose of together with general office waste. Do not allow this material to drain into sewers/water supplies. Dispose of waste material acco to Local, State, Federal, and Provincial Environmental Regulations.         HP's Planet Partners (trademark) supplies recycling program enables simple, convenient recyc HP original inkjet and LaserJet supplies. For more information and to determine if this service available in your location, please visit http://www.hp.com/recycle.         14. Transport information         DOT         Not regulated as dangerous goods.         IMDG         Not regulated as dangerous goods.         ADR         Not regulated as dangerous goods.         Further information         Not a dangerous good.         IMDG         Not regulated as dangerous goods.         ADR         Not regulated as dangerous goods.         Further information         Not a dangerous good.		Not available	2.	
Disposal instructions       Do not dispose of together with general office waste. Do not allow this material to drain into sewers/water supplies. Dispose of waste material accore to Local, State, Federal, and Provincial Environmental Regulations.         HP's Planet Partners (trademark) supplies recycling program enables simple, convenient recycles         HP original inkjet and LaserJet supplies. For more information and to determine if this service available in your location, please visit http://www.hp.com/recycle.         14. Transport information         DOT         Not regulated as dangerous goods.         IMDG         Not regulated as dangerous goods.         ADR         Not regulated as dangerous goods.         Further information         Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.         15. Regulatory information	Other adverse effects	Not available	2.	
Do not allow this material to drain into sewers/water supplies. Dispose of waste material acco to Local, State, Federal, and Provincial Environmental Regulations. HP's Planet Partners (trademark) supplies recycling program enables simple, convenient recyc HP original inkjet and LaserJet supplies. For more information and to determine if this service available in your location, please visit http://www.hp.com/recycle. <b>14. Transport information</b> <b>DOT</b> Not regulated as dangerous goods. <b>IATA</b> Not regulated as dangerous goods. <b>IMDG</b> Not regulated as dangerous goods. <b>ADR</b> Not regulated as dangerous goods. <b>Further information</b> Not a dangerous good under DOT, IATA, ADR, IMDG, or RID. <b>15. Regulatory information</b>	13. Disposal consideration	ons		
HP original inkjet and LaserJet supplies. For more information and to determine if this service available in your location, please visit http://www.hp.com/recycle.  14. Transport information DOT Not regulated as dangerous goods. IATA Not regulated as dangerous goods. IMDG Not regulated as dangerous goods. ADR Not regulated as dangerous goods. Further information Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.  15. Regulatory information	Disposal instructions Do not dis Do not alle		not allow this material to drain into sewers/water supplies. Dispose of waste material according	
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Not regulated as dangerous goods.         Further information       Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.         15. Regulatory information	Not regulated as dangerous g	joods.		
Further information       Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.         15. Regulatory information	ADR			
			rous good under DOT, IATA, ADR, IN	1DG, or RID.
	15 Regulatory informat	ion		
			(b): Does not contain listed chemical	S.
	/eaclar regulations	00 100A 12		

TSCA Section 12(b) Expor	t Notification (40 CFR 707, Subpt. D)
Not regulated.	
CERCLA Hazardous Subst	ance List (40 CFR 302.4)
Not listed.	
SARA 304 Emergency rele	ase notification
	ted Substances (29 CFR 1910.1001-1050)
Not listed.	
-	Reauthorization Act of 1986 (SARA) Immediate Hazard - No
Hazard categories	Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No
SARA 302 Extremely haza Not listed.	Irdous substance
SARA 311/312 Hazardous chemical	Νο
Other federal regulations Safe Drinking Water Act (SDWA)	Not regulated.
US state regulations	
US. Massachusetts RTK - S	
-	45-5) nd Community Right-to-Know Act
	and Community Right-to-Know Law
2-pyrrolidone (CAS 616-4 US. Rhode Island RTK	<del>1</del> 5-5)
Not regulated.	
US. California Proposition Not Listed.	65
Other information	VOC content (less water, less exempt compounds) = < 533 g/L (U.S. requirement, not for emissions) VOC data based on formulation (Organic compounds minus solids)
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, in	ncluding date of preparation or last revision
Issue date	07-Oct-2014
Revision date	30-Aug-2015
Version #	03
Disclaimer	This Safety Data Sheet document is provided without charge to customers of HP. Data is the most current known to HP 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.
Manufacturer information	HP 1501 Page Mill Road Palo Alto, CA 94304-1112 US Direct 1-650-857-5020

#### 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



# SAFETY DATA SHEET

# 1. Identification

Product identifier	CH562Series[Y][3]
Other means of identification	Not available.
Recommended use	Inkjet printing
<b>Recommended restrictions</b>	None known.
Company identification	HP 1501 Page Mill Road Palo Alto, CA 94304-1112 United States Telephone 650-857-5020 HP health effects line (Toll-free within the US) 1-800-457-4209 (Direct) 1-760-710-0048 HP Customer Care Line (Toll-free within the US) 1-800-474-6836 (Direct) 1-208-323-2551 Email: hpcustomer.inquiries@hp.com

## 2. Hazard(s) identification

Physical hazards	Not classified.
Health hazards	Not classified.
Environmental hazards	Not classified.
OSHA defined hazards	Not classified.
Label elements	
Hazard symbol	None.
Signal word	None.
Hazard statement	Not available.
Precautionary statement	
Prevention	Not available.
Response	Not available.
Storage	Not available.
Disposal	Not available.
Hazard(s) not otherwise classified (HNOC)	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.
Supplemental information	This product is not classified as hazardous according to OSHA CFR 1910.1200 (HazCom 2012).

#### Supplemental mormation

## 3. Composition/information on ingredients

Mixtures			
Chemical name	Common name and synonyms	CAS number	%
Water		7732-18-5	65-85
2-pyrrolidone		616-45-5	< 7.5
Yellow colorant		Proprietary	< 7.5
magnesium nitrate hexahydrate		13446-18-9	< 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	

Inhalation	Remove to fresh air. If symptoms persist, get medical attention.
Skin contact	Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation develops or persists.
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.
Ingestion	If ingestion of a large amount does occur, seek medical attention.
Most important symptoms/effects, acute and delayed	Not available.

## 5. Fire-fighting measures

Suitable extinguishing media	Dry chemical, CO2, water spray or regular foam.
Unsuitable extinguishing media	None known.
Specific hazards arising from the chemical	Not applicable.
Special protective equipment and precautions for firefighters	Not available.
Specific methods	None established.
6 Accidental release measures	

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Wear appropriate personal protective equipment.
Methods and materials for containment and cleaning up	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.
Environmental precautions	Do not let product enter drains. Do not flush into surface water or sanitary sewer system.

## 7. Handling and storage

Precautions for safe handling	Avoid contact with skin, eyes and clothing.
Conditions for safe storage, including any incompatibilities	Keep out of the reach of children. Keep away from excessive heat or cold.

## 8. Exposure controls/personal protection

Occupational exposure limits	No exposure limits noted for ingredient(s).	
<b>Biological limit values</b>	No biological exposure limits noted for the ingredient(s).	
Exposure guidelines	Exposure limits have not been established for this product.	
Appropriate engineering controls	Use in a well ventilated area.	
Individual protection measures, such as personal protective equipment		
Eye/face protection	Not available.	
Skin protection		
Hand protection	Not available.	
Other	Not available.	
<b>Respiratory protection</b>	Not available.	
Thermal hazards	Not available.	
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.	

## 9. Physical and chemical properties

### Appearance

Physical state	Liquid.	
Color	Yellow	
Odor	Not available.	
Odor threshold	Not available.	
рН	8 - 8.4	
Melting point/freezing point	Not available.	
Initial boiling point and boiling range	Not determined	
Flash point	> 200.0 °F (> 93.3 °C) Pensky-Martens Closed Cup	
Evaporation rate	Not determined	
Flammability (solid, gas)	Not available.	
Upper/lower flammability or explosive limits		
Flammability limit - lower (%)	Not available.	
Flammability limit - upper (%)	Not available.	
Explosive limit - lower (%)	Not available.	
Explosive limit - upper (%)	Not available.	
Vapor pressure	Not determined	
Solubility(ies)		
Solubility (water)	Soluble in water	
Partition coefficient (n-octanol/water)	Not available.	
Auto-ignition temperature	Not available.	
Decomposition temperature	Not available.	
Viscosity	<= 2 cp	
Other information	For other VOC regulatory data/information see Section 15.	
VOC (Weight %)	< 155 g/L	

# 10. Stability and reactivity

Reactivity	Not available.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Will not occur.
Conditions to avoid	Not available.
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 information

Symptoms related to the physical, chemical and toxicological characteristics	Not available.	
Information on toxicological effects		
Acute toxicity	Based on available data, the classification criteria are not met.	
Skin corrosion/irritation	Based on available data, the classification criteria are not met.	
Serious eye damage/eye irritation	Based on available data, the classification criteria are not met.	

#### Respiratory or skin sensitization

Respiratory sensitization	Based on available data, the classification criteria are not met.
Skin sensitization	Based on available data, the classification criteria are not met.

Corm call mutagonicity	Pacad an av	vilable data, the classification criteria	are not mot
Germ cell mutagenicity Carcinogenicity	Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.		
Reproductive toxicity		ailable data, the classification criteria	
Specific target organ toxicity		ailable data, the classification criteria	
- single exposure	Daseu oli ava	diable uata, the classification criteria	are not met.
Specific target organ toxicity - repeated exposure	Based on available data, the classification criteria are not met.		
Aspiration hazard	Based on ava	ailable data, the classification criteria	are not met.
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.		
Components	Species		Test Results
2-pyrrolidone (CAS 616-45-5)			
Acute			
Oral			
LD50	Guinea pig		6500 mg/kg
	Rat		6500 mg/kg
12. Ecological information	on		
Aquatic toxicity	This product	has not been tested for ecological ef	ffects.
Ecotoxicity			
Components		Species	Test Results
2-pyrrolidone (CAS 616-45-5)			
Aquatic			
-	EC50	Water flea (Daphnia pulex)	13.21 mg/l, 48 hours
Persistence and degradability	Not available		
Bioaccumulative potential	Not available		
Partition coefficient n-oct	anol / water (		
2-pyrrolidone		-0.85	
Mobility in soil	Not available		
Other adverse effects	Not available		
13. Disposal consideration			
Disposal instructions	Do not dispose of together with general office waste. 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 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		
DOT			
Not regulated as dangerous g	oods.		
IATA	oodc		
Not regulated as dangerous g	000S.		
IMDG Not regulated as dangerous g	oode		
	0005.		
ADR			
Not regulated as dangerous goods			

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

	rt Notification (40 CFR 707, Subpt. D)
Not regulated.	
CERCLA Hazardous Subst	ance List (40 CFR 302.4)
Not listed.	
SARA 304 Emergency rele	ase notification
Not regulated. OSHA Specifically Regulat Not listed.	ted Substances (29 CFR 1910.1001-1050)
Superfund Amendments and I	Reauthorization Act of 1986 (SARA)
Hazard categories	Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No
SARA 302 Extremely haza	ardous substance
Not listed.	
SARA 311/312 Hazardous chemical	Νο
Other federal regulations	
Safe Drinking Water Act (SDWA)	Not regulated.
US state regulations	
US. Massachusetts RTK -	Substance List
2-pyrrolidone (CAS 616-	45-5)
US. New Jersey Worker a	nd Community Right-to-Know Act
Not listed.	
=	and Community Right-to-Know Law
2-pyrrolidone (CAS 616-4 US. Rhode Island RTK	45-5)
Not regulated.	
US. California Proposition Not Listed.	65
Other information	VOC content (loss water loss exempt compounds) = < 527 a/L (115 requirement not for
other information	VOC content (less water, less exempt compounds) = $< 527$ g/L (U.S. requirement, not for emissions)
	VOC data based on formulation (Organic compounds minus solids)
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, in	ncluding date of preparation or last revision
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