CC656Series[Y]-MSDS_US-English-19.pdf

 $CC656Series [C]-MSDS_US-English-05.pdf$

 $CC656Series [M]-MSDS_US-English-06.pdf$

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name CC656Series[Y]

Version # 06

Issue date 10-Nov-2011

Revision date 02-Oct-2013

Product use Inkjet printing

CAS # Mixture

Company identification Hewlett-Packard Company

3000 Hanover Street Palo Alto, CA 94304-1185

United States

Telephone 650-857-5020

Hewlett-Packard health effects line (Toll-free within the US) 1-800-457-4209

(Direct) 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. Hazards Identification

Emergency overview Contact with skin and eyes may result in irritation.

Causes skin irritation.

Other hazards 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

3. Composition / Information on Ingredients

CAS #	Percent
111-29-5	< 15
CAS#	Percent
7732-18-5	> 60
Proprietary	< 15
Proprietary	< 7.5
Proprietary	< 5
	111-29-5 CAS # 7732-18-5 Proprietary Proprietary

Composition commentsThis 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

General advice No information

First aid procedures

Eye contact Do not rub eyes. Immediately flush with large amounts of clean, warm water (low pressure) for at

least 15 minutes or until particles are removed. If irritation persists get medical attention.

Skin contact Wash affected areas thoroughly with mild soap and water. If irritation persists get medical

attention.

Inhalation Move to fresh air. If symptoms persist, get medical attention.

Material name: CC656Series[Y]

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

CO2, water, dry chemical, or foam

5. Fire Fighting Measures

Flammable properties None known.

Extinguishing media

Suitable extinguishing

media

Unsuitable extinguishing

media

None known.

Fire fighting

equipment/instructions

Not available. None established.

Specific methods **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 cleaning up

Soak up with inert absorbent material.

Other information

Soak up with inert absorbent material. Slowly vacuum or sweep the material into a bag or other sealed container. Dispose of in compliance with federal, state, and local regulations. See also

section 13 Disposal considerations.

7. Handling and Storage

Handling Avoid contact with skin, eyes and clothing.

Storage Keep out of the reach of children. Keep away from excessive heat or cold.

8. Exposure Controls / Personal Protection

Occupational exposure limits

US. AIHA Workplace Environmental Exposure Level (WEEL) Guides

Value Components **Type** 1,6-hexanediol (CAS TWA 10 mg/m3

Proprietary)

Exposure guidelines Exposure limits have not been established for this product.

Engineering controls Use in a well ventilated area.

Personal protective equipment

General Use personal protective equipment to minimize exposure to skin and eye. **General hygiene** Handle in accordance with good industrial hygiene and safety practice. considerations

9. Physical & Chemical Properties

Appearance Not available. **Physical state** Liquid. **Form** liquid Color Yellow Odor Not available. Hα 7.2 - 7.4Vapor pressure Not determined

Not determined **Boiling point** Melting point/Freezing point Not available. Solubility (water) Soluble in water Specific gravity Not available.

Flash point > 200.00 °F (> 93.33 °C) Pensky-Martens Closed Cup

Viscosity >= 2 cp

Material name: CC656Series[Y] MSDS US VOC < 241 g/l

Other information For other VOC regulatory data/information see Section 15.

10. Chemical Stability & Reactivity Information

Chemical stability Stable under recommended storage conditions.

Conditions to avoid No information 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.

Possibility of hazardous

reactions

Will not occur.

11. Toxicological Information

Toxicological data

Components	Species	Test Results
All I II I (CAC D I I)		

Aliphatic diol (CAS Proprietary)

Acute

Dermal

Rabbit LD50 > 10000 mg/kg

Oral

LD50 Rat 3730 mg/kg

Other

LD50 1738 mg/kg Mouse

Carcinogenicity No data available. Serious eye damage/eye Not available.

irritation

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 Information

Aquatic toxicity Static acute toxicity (trout), survival (100 mg/L) = 100%

Static acute toxicity (trout), survival (10 mg/L) = 100%

Ecotoxicological data

Product Species Test Results

CC656Series[Y] (CAS Mixture)

Aquatic

Acute

LC50 Fish Fathead minnow (Pimephales promelas) 434 mg/l, 96 hours

Ecotoxicity No data available. Persistence and degradability Not available.

Bioaccumulation / Accumulation

Bioaccumulative potential

Octanol/water partition coefficient log Kow

Aliphatic diol -0.106

Partition coefficient

Aliphatic diol -0.106

13. Disposal Considerations

Disposal instructions Dispose of in compliance with federal, state, and local regulations.

HP's Planet Partners (trademark) supplies recycling program enables simple, convenient recycling of HP original inkjet and LaserJet supplies. For more information and to determine if this service

is available in your location, please visit http://www.hp.com/recycle.

Material name: CC656Series[Y] MSDS US

14. Transport Information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

RID

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.

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

Not listed.

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Not regulated.

DEA Exempt Chemical Mixtures Code Number

Not regulated.

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

Not regulated.

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

No

Hazard categories Immediate Hazard - No

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely

hazardous substance

SARA 311/312 No

Hazardous chemical

Other information VOC content (less water, less exempt compounds) = < 986 g/L (U.S. requirement, not for

emissions)

VOC data based on formulation (Organic compounds minus solids)

Other regulationsAll 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.

State regulations

US. Massachusetts RTK - Substance List

Not regulated.

US. Pennsylvania RTK - Hazardous Substances

Not regulated.

US. Rhode Island RTK

Not regulated.

16. Other Information

HMIS® ratings Health: 1

Flammability: 1 Physical hazard: 0

Material name: CC656Series[Y] MSDS US

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.

Other information This MSDS was prepared in accordance with USA OSHA Hazard Communications regulation (29

CFR 1910.1200).

Issue date 10-Nov-2011

This data sheet contains changes from the previous version in section(s):

1. Product and Company Identification: Alternate Trade Names

Ecological Information: Ecotoxicity

12. Ecological Information: Aquatic toxicity

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

Material name: CC656Series[Y] MSDS US

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name CC656Series[C]

Version # 05

Issue date 09-Nov-2011 **Revision date** 30-Sep-2013 Inkjet printing **Product use** CAS# Mixture

Company identification Hewlett-Packard Company

> 3000 Hanover Street Palo Alto, CA 94304-1185

United States

Telephone 650-857-5020

Hewlett-Packard health effects line (Toll-free within the US) 1-800-457-4209

(Direct) 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. Hazards Identification

Emergency overview Contact with skin and eyes may result in irritation.

Causes skin irritation.

Other hazards 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

3. Composition / Information on Ingredients

Hazardous components	CAS #	Percent
1,5-pentanediol	111-29-5	< 7.5
Non-hazardous components	CAS#	Percent
Water	7732-18-5	> 65
Ethyl alkyldiol	Proprietary	< 10
1-(2-hydroxyethyl)-2-pyrrolidone	3445-11-2	< 5
Aliphatic diol	Proprietary	< 5
Cyan Pigment	Proprietary	< 5
Metal nitrate # 2	Proprietary	< 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

General advice No information

First aid procedures

Eye contact Do not rub eyes. Immediately flush with large amounts of clean, warm water (low pressure) for at

least 15 minutes or until particles are removed. If irritation persists get medical attention.

Material name: CC656Series[C] MSDS US

11666 Version #: 05 Revision date: 30-Sep-2013 Issue date: 09-Nov-2011

Skin contact Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation

develops or persists.

Inhalation Remove to fresh air. If symptoms persist, get medical attention. **Ingestion** If ingestion of a large amount does occur, seek medical attention.

5. Fire Fighting Measures

Flammable properties None known.

Extinguishing media

Suitable extinguishing

media

Unsuitable extinguishing

media

None known.

Fire fighting

equipment/instructions

Not available.

Specific methods None established. **Hazardous combustion** Refer to section 10.

products

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.

Dry chemical, CO2, water spray or regular foam.

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

Value

2/5

section 13 Disposal considerations.

7. Handling and Storage

Handling Avoid contact with skin, eyes and clothing.

Storage Keep out of the reach of children. Keep away from excessive heat or cold.

8. Exposure Controls / Personal Protection

Occupational exposure limits

US. AIHA Workplace Environmental Exposure Level (WEEL) Guides

Components	туре	value
1,6-hexanediol (CAS	TWA	10 mg/m3
Proprietary)		

Exposure guidelines Exposure limits have not been established for this product.

Engineering controls Use in a well ventilated area.

Personal protective equipment

General Use personal protective equipment to minimize exposure to skin and eye. **General hygiene** Handle in accordance with good industrial hygiene and safety practice. considerations

9. Physical & Chemical Properties

Appearance Liquid. Physical state Liquid. **Form** Not available.

Color Cyan

Odor Not available. 7 - 7.5 pН 7.2 - 7.4

Vapor pressure Not determined **Boiling point** Not determined Melting point/Freezing point Not available.

Material name: CC656Series[C] MSDS US

11666 Version #: 05 Revision date: 30-Sep-2013 Issue date: 09-Nov-2011

Solubility (water) Soluble in water Specific gravity Not determined

> 200.00 °F (> 93.33 °C) Pensky-Martens Closed Cup Flash point

VOC < 307 g/l

Other information For other VOC regulatory data/information see Section 15.

10. Chemical Stability & Reactivity Information

Chemical stability Stable under recommended storage conditions.

Conditions to avoid No information 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.

Possibility of hazardous Will not occur.

reactions

11. Toxicological Information

Toxicological data

Components	Species	Test Results
Aliphatic diol (CAS Propriet	tary)	
Acute		
Dermal		
LD50	Rabbit	> 10000 mg/kg
Oral		
LD50	Rat	3730 mg/kg
Other		
LD50	Mouse	1738 mg/kg

Carcinogenicity No data available. 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 Information

Aquatic toxicity Not established.

cotovicological data

Ecotoxicological data			
Product		Species	Test Results
CC656Series[C] (CAS Mixto	ure)		
Acute			
Algae	EC50	Algae	> 100 mg/l, 72 hours
Crustacea	EC50	Daphnia	> 100 mg/l, 48 hours
Components		Species	Test Results
Ethyl alkyldiol (CAS Proprie	etary)		
Crustacea	EC50	Daphnia	102, 48 Hours
Fish	LC50	Fish	1000, 96 Hours
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	10330 - 16360 mg/l, 48 hours
Fish	LC50	Bleak (Alburnus alburnus)	> 10000 mg/l, 96 hours

Ecotoxicity Information given is based on data on the components and the ecotoxicology of similar products

Persistence and degradability Not available.

Bioaccumulation / Accumulation

Material name: CC656Series[C] MSDS US **Bioaccumulative potential**

Octanol/water partition coefficient log Kow

Aliphatic diol -0.106

Partition coefficient

Aliphatic diol -0.106

13. Disposal Considerations

Disposal instructions Dispose of in compliance with federal, state, and local regulations.

14. Transport Information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

RID

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.

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

Not listed.

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Not regulated.

DEA Exempt Chemical Mixtures Code Number

Not regulated.

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

Not regulated.

CERCLA (Superfund) reportable quantity

None

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

No

hazardous substance

Hazardous chemical

SARA 311/312 No

. . .

Other information

VOC content (less water, less exempt compounds) = <1109 g/L (U.S. requirement, not for

emissions)

VOC data based on formulation (Organic compounds minus solids)

Other regulationsAll 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.

State regulations

US. Massachusetts RTK - Substance List

Not regulated.

US. Pennsylvania RTK - Hazardous Substances

Not regulated.

Material name: CC656Series[C] MSDs us

US. Rhode Island RTK

Not regulated.

16. Other Information

HMIS® ratings Health: 1

Flammability: 1 Physical hazard: 0

NFPA ratings Health: 1

Flammability: 1 Instability: 0

DisclaimerThis 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.

Other information This MSDS was prepared in accordance with USA OSHA Hazard Communications regulation (29

CFR 1910.1200).

Issue date 09-Nov-2011

This data sheet contains changes from the previous version in section(s):

1. Product and Company Identification: Alternate Trade Names

Ecological Information: Ecotoxicity

12. Ecological Information: Aquatic toxicity

 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

Material name: CC656Series[C] MSDS US

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name CC656Series[M]

Version # 05

Issue date10-Nov-2011Revision date30-Sep-2013Product useInkjet printingCAS #Mixture

Company identification Hewlett-Packard Company

3000 Hanover Street Palo Alto, CA 94304-1185

United States

Telephone 650-857-5020

Hewlett-Packard health effects line (Toll-free within the US) 1-800-457-4209

(Direct) 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. Hazards Identification

Emergency overview Contact with skin and eyes may result in irritation.

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Causes skin irritation.

Other hazards 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

3. Composition / Information on Ingredients

Hazardous components	CAS #	Percent
1,5-pentanediol	111-29-5	< 5
2-pyrrolidone	616-45-5	< 5

Non-hazardous components	CAS#	Percent
Water	7732-18-5	> 65
Aliphatic diol	Proprietary	< 15
Magenta Colorant	Proprietary	< 10
Ethyl alkyldiol	Proprietary	< 5
Metal nitrate # 2	Proprietary	< 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

General advice No information

 First aid procedures

Eye contact Do not rub eyes. Immediately flush with large amounts of clean, warm water (low pressure) for at

least 15 minutes or until particles are removed. If irritation persists get medical attention.

Skin contact Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation

develops or persists.

InhalationRemove to fresh air. If symptoms persist, get medical attention.IngestionIf ingestion of a large amount does occur, seek medical attention.

5. Fire Fighting Measures

Flammable properties None known.

Extinguishing media

Suitable extinguishing

media

Dry chemical, CO2, water spray or regular foam.

Unsuitable extinguishing

media

None known.

Fire fighting

equipment/instructions

Not available.

Specific methodsNone established. **Hazardous combustion**Refer to section 10.

products

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 cleaning up

Soak up with inert absorbent material.

Other information Soak up with inert absorbent material. Slowly vacuum or sweep the material into a bag or other

sealed container. Dispose of in compliance with federal, state, and local regulations. See also

section 13 Disposal considerations.

7. Handling and Storage

Handling Avoid contact with skin, eyes and clothing.

Storage Keep out of the reach of children. Keep away from excessive heat or cold.

8. Exposure Controls / Personal Protection

Occupational exposure limits

US. AIHA Workplace Environmental Exposure Level (WEEL) Guides

 Components
 Type
 Value

 1,6-hexanediol (CAS
 TWA
 10 mg/m3

Proprietary)

Exposure guidelines Exposure limits have not been established for this product.

Engineering controls Use in a well ventilated area.

Personal protective equipment

GeneralUse personal protective equipment to minimize exposure to skin and eye. **General hygiene**Handle in accordance with good industrial hygiene and safety practice.

considerations

9. Physical & Chemical Properties

AppearanceLiquid.Physical stateLiquid.

Form Not available.
Color Magenta
Odor Not available.
pH 7 - 7.5

7.2 - 7.4

Vapor pressure Not determined

Material name: CC656Series[M]

Boiling point Not determined Melting point/Freezing point Not available. Solubility (water) Soluble in water Specific gravity Not determined

Flash point >= 200.00 °F (>= 93.33 °C) Pensky-Martens Closed Cup

VOC $< 315 \, g/l$

Other information No information available

10. Chemical Stability & Reactivity Information

Chemical stability Stable under recommended storage conditions.

Conditions to avoid No information 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.

Possibility of hazardous

reactions

Will not occur.

11. Toxicological Information

Toxicological data

Components	Species	Test Results
2-pyrrolidone (CAS 616-45-5)		
Acute		
Oral		
LD50	Guinea pig	6500 mg/kg
	Rat	6500 mg/kg
Aliphatic diol (CAS Proprietary)		
Acute		
Dermal		
LD50	Rabbit	> 10000 mg/kg
Oral		
LD50	Rat	3730 mg/kg
Other		
LD50	Mouse	1738 mg/kg
Carcinogenicity No data available.		
Serious eye damage/eye	Not available.	

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 Information

Aquatic toxicity Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

EC50/48h/daphnia =>100

Frotovicological data

Product		Species	Test Results	
CC656Series[M] (CAS Mixt	ure)			
Acute				
Algae	EC50	Algae	> 100, 72 hours	
Components		Species	Test Results	
2-pyrrolidone (CAS 616-45	i-5)			
Aquatic				
Crustacea	EC50	Water flea (Daphnia pulex)	13.21 mg/l, 48 hours	

Material name: CC656Series[M] MSDS US

12080 Version #: 05 Revision date: 30-Sep-2013 Issue date: 10-Nov-2011

Species Test Results Components Ethyl alkyldiol (CAS Proprietary) Crustacea EC50 Daphnia 102, 48 Hours Fish LC50 Fish 1000, 96 Hours Aquatic EC50 Crustacea Water flea (Daphnia magna) 10330 - 16360 mg/l, 48 hours

> 10000 mg/l, 96 hours

Bleak (Alburnus alburnus)

Ecotoxicity This product has not been tested for ecological effects.

Persistence and degradability Not available.

Bioaccumulation / Accumulation

Bioaccumulative potential

Octanol/water partition coefficient log Kow

LC50

2-pyrrolidone -0.85 Aliphatic diol -0.106

Partition coefficient

Fish

2-pyrrolidone -0.85 Aliphatic diol -0.106

13. Disposal Considerations

Disposal instructions Dispose of in compliance with federal, state, and local regulations.

14. Transport Information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

RID

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.

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

Not listed.

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Not regulated.

DEA Exempt Chemical Mixtures Code Number

Not regulated.

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

Not regulated.

CERCLA (Superfund) reportable quantity

None

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

Material name: CC656Series[M] MSDS US

SARA 311/312 Hazardous chemical

No

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) = < 833 g/L (U.S. requirement, not for

emissions)

VOC data based on formulation (Organic compounds minus solids)

Other regulations

All chemical substances in this HP product have been notified or are exempt from notification under chemical substances notification laws in the following countries: US (TSCA), EU (EINECS/ELINCS), Switzerland, Canada (DSL/NDSL), Australia, Japan, Philippines, South Korea, New Zealand, and China.

State regulations

US. Massachusetts RTK - Substance List

2-pyrrolidone (CAS 616-45-5)

US. Pennsylvania RTK - Hazardous Substances

2-pyrrolidone (CAS 616-45-5)

Listed.

US. Rhode Island RTK

Not regulated.

16. Other Information

HMIS® ratings Health: 1

Flammability: 1 Physical hazard: 0

NFPA ratings Health: 1

Flammability: 1 Instability: 0

Disclaimer

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Other information

This MSDS was prepared in accordance with USA OSHA Hazard Communications regulation (29

CFR 1910.1200).

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This data sheet contains changes from the previous version in section(s):

1. Product and Company Identification: Alternate Trade Names

Ecological Information: Ecotoxicity

12. Ecological Information: Aquatic toxicity

Manufacturer information

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Material name: CC656Series[M] MSDS US

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

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