

1. Product and Company Identification

Material nameCC640SeriesUse of the preparationInkjet printing

Version # 09

Revision date 08-13-2008 CAS # Mixture

Manufacturer information Hewlett-Packard Company

1000 NE Circle Boulevard Corvallis, OR 97330-4239 US (Direct) 1-503-494-7199

(Toll-free within the US) 1-800-457-4209

Hewlett-Packard health effects line

(Toll-free within the US) 1-800-457-4209 (Direct) 1-503-494-7199

General information telephone number

HP Customer Care Line 1-800-474-6836 (Toll-free) 1-800-474-6836 (Direct) 1-208-323-2551 Date prepared Aug 06, 2008 MSDS number 302446

2. Hazards Identification

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

Acute health effects

Any potential hazards are presumed to be due to exposure to the components.

Potential health effects

Routes of exposure Potential routes of overexposure to this product are skin and eye contact

Inhalation of vapor and ingestion are not expected to be significant routes of exposure for this

product under normal use conditions.

Complete toxicity data are not available for this specific formulation

Chronic health effects Carbon Black: Chronic inhalation studies performed with fine dust particles resulted in lung

tumors in animals. The IARC classification was based upon these results. IARC also concluded "there is inadequate evidence in humans for the carcinogenicity of carbon black." Inhalation of fine dust particles is not expected to occur during normal conditions of use of this

ink.

CarcinogenicityNone of the components present in this formulation at concentrations equal to or greater than

0.1% are listed by EU, MAK, IARC, NTP or OSHA.

3. Composition / Information on Ingredients

Component/substance	CAS number	% by weight	
Water	7732-18-5	< 80	
1,5-pentanediol	111-29-5	< 10	
2-pyrrolidone	616-45-5	< 10	
Modified Carbon Black #6	Proprietary	< 10	
Substituted diol	Proprietary	< 2.5	
0	This interconduction on account interconduction		

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).

Material nameCC640SERIESMSDS USCreation dateSep 29, 2003Version number111 / 5



4. First Aid Measures

First aid procedures

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

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

Skin contact Wash affected areas thoroughly with mild soap and water. 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

Flash point and method > 200 °F (> 93.3 °C); Pensky-Martens Closed Cup

Hazardous combustion

products

Refer to section 10.

Flammable properties None known.

Extinguishing media

Suitable extinguishing

media

Dry chemical, CO2, water spray or regular foam.

Unsuitable extinguishing

media

None known.

Unusual fire and explosion

hazard

None known.

Special firefighting procedures None established.

6. Accidental Release Measures

Personal precautionsWear appropriate personal protective equipment.

Environmental precautions Do not let product enter drains. Do not flush into surface water or sanitary sewer system.

Methods for containment Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay,

sand or diatomaceous earth, commercial sorbents, or recover using pumps.

Methods for cleaning up

Other information

Soak up with inert absorbent material.

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

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

See also section 13 Disposal considerations.

7. Handling and Storage

Handling Avoid contact with skin, eyes and clothing.

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

8. Exposure Controls / Personal Protection

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

Personal protective equipment

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

General hygeine Handle in accordance with good industrial hygiene and safety practice.

considerations

9. Physical & Chemical Properties

Color Black

Odor threshold Not available.
Physical state Not available.
pH 7.5 - 8.2

Melting point Not available.

Melting point Not available



Freezing point Not available.

Boiling point Not determined

Flash point > 200 °F (> 93.3 °C); Pensky-Martens Closed Cup

Evaporation rateNot determinedFlammabilityNot available.Flammability limits in air,Not available.

upper, % by volume Flammability limits in air,

lower, % by volume

r, Not determined

Vapor pressure Not determined
Vapor density > 1 (air = 1.0)

Specific gravity 1 - 1.2

Relative density

Solubility in water

Partition coefficient

Not available.

(n-octanol/water)

Auto-ignition temperature Not available.

Decomposition temperature Not available.

VOC < 3 % Viscosity > 2 cp

10. Chemical Stability & Reactivity Information

Chemical stability Stable under recommended storage conditions.

Incompatible materials Incompatible with strong bases and oxidizing agents.

Hazardous decomposition products

Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide,

carbon dioxide and/or low molecular weight hydrocarbons.

Possibility of hazardous

reactions

Will not occur.

11. Toxicological Information

Not available.

12. Ecological Information

Aquatic toxicity LC50/96h/Fathead minnows =>750 mg/L.

Persistence and degradability Not available.

13. Disposal Considerations

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

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

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

Material name CC640SERIES Creation date Sep 29, 2003

14. Transport Information

IATA

Proper shipping name Not applicable Hazard class Not applicable

UN number None
Packing group N/A
Packaging exceptions None
Packaging non bulk None
Labels required None

15. Regulatory Information

US federal regulations US TSCA 12(b): Contains sodium nitrite (CASRN 7632-00-0), subject to export notification

requirements.

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

Section 302 extremely hazardous substance

NO

Section 311 hazardous

chemical

No

International regulations All chemical substances in this HP product have been notified or are exempt from notification

under chemical substances notification laws in the following countries: US (TSCA), EU (EINECS/ELINCS), Switzerland, Canada (DSL/NDSL), Australia, Japan, Philippines, South

Korea, New Zealand, and China.

State regulations

US - Pennsylvania RTK - Hazardous Substances: Listed substance

2-pyrrolidone (616-45-5) Listed.

16. Other Information

Issue date

HMIS® ratings Health: 1

Flammability: 1

Physical hazard: 0

NFPA ratings Health: 1

Flammability: 1 Instability: 0

Aug 6 2008 1:21PM

Revision 9

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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.

Material nameCC640SERIESMSDS USCreation dateSep 29, 2003Version number114 / 5

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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CC641Series **Material name** Use of the preparation Inkjet printing

09 Version #

Revision date 08-13-2008 CAS# Mixture

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General information telephone number

HP Customer Care Line 1-800-474-6836 (Toll-free) 1-800-474-6836 (Direct) 1-208-323-2551 Aug 06, 2008 **Date prepared** MSDS number 302447

2. Hazards Identification

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

Acute health effects

Any potential hazards are presumed to be due to exposure to the components.

Potential health effects

Potential routes of overexposure to this product are skin and eye contact Routes of exposure

Inhalation of vapor and ingestion are not expected to be significant routes of exposure for this

product under normal use conditions.

Complete toxicity data are not available for this specific formulation

Chronic health effects Carbon Black: Chronic inhalation studies performed with fine dust particles resulted in lung

tumors in animals. The IARC classification was based upon these results. IARC also concluded "there is inadequate evidence in humans for the carcinogenicity of carbon black." Inhalation of fine dust particles is not expected to occur during normal conditions of use of this

Carcinogenicity None of the components present in this formulation at concentrations equal to or greater than

0.1% are listed by EU, MAK, IARC, NTP or OSHA.

3. Composition / Information on Ingredients

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2-pyrrolidone	616-45-5	< 10	
Modified Carbon Black #6	Proprietary	< 10	
Substituted diol	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).

Material name CC641SERIES MSDS US Creation date Sep 29, 2003 Version number 11 1/5



4. First Aid Measures

First aid procedures

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

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

Skin contact Wash affected areas thoroughly with mild soap and water. 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

> 200 °F (> 93.3 °C); Pensky-Martens Closed Cup Flash point and method

Hazardous combustion

products

Refer to section 10.

Flammable properties None known.

Extinguishing media

Suitable extinguishing

media

Dry chemical, CO2, water spray or regular foam.

Unsuitable extinguishing None known.

media

None known.

Unusual fire and explosion

hazard

None established.

Special firefighting procedures 6. Accidental Release Measures

Personal precautions

Wear appropriate personal protective equipment.

Environmental precautions

Do not let product enter drains. Do not flush into surface water or sanitary sewer system.

Methods for containment

Methods for 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.

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.

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

8. Exposure Controls / Personal Protection

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

Personal protective equipment

General Use personal protective equipment to minimize exposure to skin and eve.

General hygeine

considerations

Handle in accordance with good industrial hygiene and safety practice.

9. Physical & Chemical Properties

Color Black

Odor threshold Not available. Not available. Physical state 7.5 - 8.2pН Not available. Melting point

Material name CC641SERIES MSDS US Creation date Sep 29, 2003 Version number 11 2/5



Freezing point Not available.

Boiling point Not determined

Flash point > 200 °F (> 93.3 °C); Pensky-Martens Closed Cup

Evaporation rateNot determinedFlammabilityNot available.Flammability limits in air,Not available.

upper, % by volume Flammability limits in air,

lower, % by volume

Not determined

Vapor pressure Not determined Vapor density > 1 (air = 1.0)

Specific gravity 1 - 1.2

Relative density

Solubility in water

Partition coefficient

Not available.

(n-octanol/water)

Auto-ignition temperature Not available.

Decomposition temperature Not available.

VOC < 3 % Viscosity > 2 cp

10. Chemical Stability & Reactivity Information

Chemical stability Stable under recommended storage conditions.

Incompatible materials Incompatible with strong bases and oxidizing agents.

Hazardous decomposition products

Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide,

carbon dioxide and/or low molecular weight hydrocarbons.

Possibility of hazardous

reactions

Will not occur.

11. Toxicological Information

Not available.

12. Ecological Information

Aquatic toxicity LC50/96h/Fathead minnows =>750 mg/L.

Persistence and degradability Not available.

13. Disposal Considerations

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

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

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

Material name CC641SERIES Creation date Sep 29, 2003

MSDS US

14. Transport Information

IATA

Proper shipping name Not applicable Hazard class Not applicable

UN number None
Packing group N/A
Packaging exceptions None
Packaging non bulk None
Labels required None

15. Regulatory Information

US federal regulations US TSCA 12(b): Contains sodium nitrite (CASRN 7632-00-0), subject to export notification

requirements.

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

Section 302 extremely hazardous substance

No

Section 311 hazardous

chemical

No

International regulations All chemical substances in this HP product have been notified or are exempt from notification

under chemical substances notification laws in the following countries: US (TSCA), EU (EINECS/ELINCS), Switzerland, Canada (DSL/NDSL), Australia, Japan, Philippines, South

Korea, New Zealand, and China.

State regulations

US - Pennsylvania RTK - Hazardous Substances: Listed substance

2-pyrrolidone (616-45-5) Listed.

16. Other Information

Issue date

HMIS® ratings Health: 1

Flammability: 1

Physical hazard: 0

NFPA ratings Health: 1

Flammability: 1 Instability: 0

Aug 6 2008 1:21PM

Revision 9

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Material nameCC641SERIESMSDS USCreation dateSep 29, 2003Version number114 / 5

Explanation of abbreviations

ACGIH American Conference of Governmental Industrial Hygienists

CAS Chemical Abstracts Service

CERCLA Comprehensive Environmental Response Compensation and Liability Act

CFR Code of Federal Regulations

COC Cleveland Open Cup

DOT Department of Transportation

EPCRA Emergency Planning and Community Right-to-Know Act (aka SARA)

IARC International Agency for Research on Cancer

NIOSH National Institute for Occupational Safety and Health

NTP National Toxicology Program

OSHA Occupational Safety and Health Administration

PEL Permissible Exposure Limit

RCRA Resource Conservation and Recovery Act

REC Recommended

REL Recommended Exposure Limit

SARA Superfund Amendments and Reauthorization Act of 1986

STEL Short-Term Exposure Limit

TCLP Toxicity Characteristics Leaching Procedure

TLV Threshold Limit Value

TSCA Toxic Substances Control Act VOC Volatile Organic Compounds

1. Chemical Product and Company Identification

Material nameCC642SeriesUse of the preparationInkjet printing

Version # 03

Revision date 20-Jun-2008

Manufacturer information Hewlett-Packard Company

1000 NE Circle Boulevard Corvallis, OR 97330-4239 US

Hewlett-Packard health effects line

(Toll-free within the US) 1-800-457-4209 **(Direct)** 1-503-494-7199

General information telephone number

 HP Customer Care Line
 1-800-474-6836

 (Toll-free)
 1-800-474-6836

 (Direct)
 1-208-323-2551

 Date prepared
 Jun 19, 2008

 MSDS number
 294308

2. Hazards Identification

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

Acute health effectsAny potential hazards are presumed to be due to exposure to the components.

Skin contact

1-(2-hydroxyethyl)-2-pyrrolidone

Contact with skin may result in irritation.

1,5-pentanediol

Contact with skin may result in irritation.

Aliphatic diol

Contact with skin may result in irritation.

Ethyl alkyldiol

Contact with skin may result in mild irritation.

Metal nitrate # 2

Contact with skin may result in irritation.

Pyridine azo dye

May cause sensitization by skin contact. Substituted naphthalenesulfonate salt # 13 Contact with skin may result in irritation.

Material nameCC642SERIESMSDS USCreation dateFeb 27, 2008Version number 31 / 7

Eye contact

1-(2-hydroxyethyl)-2-pyrrolidone

Contact with eyes may result in irritation.

1,5-pentanediol

Contact with eyes may result in irritation.

Aliphatic diol

Contact with eyes may result in irritation.

Ethyl alkyldiol

Contact with eyes may result in mild irritation.

Metal nitrate # 2

Contact with eyes may result in irritation.

Pyridine azo dye

Contact with eyes may result in irritation.

Substituted naphthalenesulfonate salt # 13

Contact with eyes may result in irritation.

Substituted phthalocyanine salt #5

Risk of serious damage to eyes.

Inhalation

1-(2-hydroxyethyl)-2-pyrrolidone

Inhalation may result in respiratory irritation.

Aliphatic diol

Inhalation may result in respiratory irritation.

Metal nitrate # 2

Inhalation may result in respiratory irritation. Substituted naphthalenesulfonate salt # 13 Inhalation may result in respiratory irritation.

Ingestion

1-(2-hydroxyethyl)-2-pyrrolidone

Ingestion may result in nausea, vomiting and diarrhea.

Metal nitrate # 2

Contains nitrate salts, may cause methemoglobinemia.

Potential health effects

Routes of exposure

Potential routes of overexposure to this product are skin and eye contact

Inhalation of vapor and ingestion are not expected to be significant routes of exposure for this

product under normal use conditions.

Complete toxicity data are not available for this specific formulation

Chronic health effects

None known.

Carcinogenicity

None of the components present in this formulation at concentrations equal to or greater than

0.1% are listed by EU, MAK, IARC, NTP or OSHA.

Material nameCC642SERIESMSDS USCreation dateFeb 27, 2008Version number 32 / 7



2 Composition / Information	n Ingradiants		
3. Composition / Information on Ingredients Component/Substance		CAS Number	% By Weight
Cyan ink			76 2 , 11 e.g
		7732-18-5	> 60
Ethyl alkyldiol	Water Ethyl alkyldiol		< 10
1,5-pentanediol		Proprietary 111-29-5	< 7.5
1-(2-hydroxyethyl)-2-pyrrolidone		3445-11-2	< 5
Substituted phthalocyanine salt #5		Proprietary	< 5
Metal nitrate # 2		Proprietary	< 5
		629-11-8	< 5
Phenylenediamine derivative	Aliphatic diol Phenylenediamine derivative		< 2.5
Yellow ink		Proprietary	-
Water		7732-18-5	> 60
1,5-pentanediol		111-29-5	< 15
Aliphatic diol		Proprietary	< 15
Substituted naphthalenesulfonate	salt # 13	Proprietary	< 7.5
Metal nitrate # 2	sale " 15	Proprietary	< 5
Magenta ink		. ,	
Water		7732-18-5	> 70
Aliphatic diol		Proprietary	< 15
1,5-pentanediol		111-29-5	< 7.5
Pyridine azo dye		Proprietary	< 5
Nitric Acid, Magnesium Salt, Hexal	vdrate	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			
First aid procedures			
Eye contact	Do not rub eyes. Immediately flush with large amounts of clean, warm water (low pressure) for at least 15 minutes or until particles are removed. If irritation persists get medical attention		
Skin contact	Wash affected areas thoroughly with mild soap and water. If irritation persists get medical attention.		
Inhalation	Move to fresh air. If symptoms persist, get medical attention.		
Ingestion	If ingestion of a large amount does occur, seek medical attention.		
5. Fire Fighting Measures			
Flash point and method	> 200 °F (> 93.3 °C); Pensky-Martens Closed Cup		
Hazardous combustion products	Refer to section 1	0.	
Flammable properties	None known.		
Extinguishing media Suitable extinguishing media	CO2, water, dry c	hemical, or foam	
Unsuitable extinguishing media	None known.		
Unusual fire and explosion hazard	None known.		

Material nameCC642SERIESMSDS USCreation dateFeb 27, 2008Version number 33 / 7



Special firefighting procedures

None established.

6. Accidental Release Measures

Personal precautions Wear appropriate personal protective equipment.

Environmental precautions Do not let product enter drains. Do not flush into surface water or sanitary sewer system.

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.

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

8. Exposure Controls/Personal Protection

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

Personal protective equipment

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

General hygeine considerations

Handle in accordance with good industrial hygiene and safety practice.

9. Physical & Chemical Properties

Color Cyan, magenta, yellow

Odor threshold Not available

Physical state Liquid.

Form

7.2 - 7.4Ηd

Melting point Not available Not available Freezing point

Boiling point Not determined

Flash point > 200 °F (> 93.3 °C); Pensky-Martens Closed Cup

Not determined **Evaporation rate** Not available. **Flammability** Not available Flammability limits in air, upper, % by volume

Flammability limits in air,

lower, % by volume

Not determined

Vapor pressure Not determined > 1 (air = 1.0)Vapor density

1 - 1.2 Specific gravity

Not available Relative density Solubility in water Soluble in water **Partition coefficient** Not available

(n-octanol/water)

Material name CC642SERIES Creation date Feb 27, 2008 **Version number** 3 4 / 7



Auto-ignition temperatureNot availableDecomposition temperatureNot available

VOC < 3 % **Viscosity** > 2 cp

10. Chemical Stability & Reactivity Information

Chemical stability Stable under recommended storage conditions.

Incompatible materials Incompatible with strong bases and oxidizing agents.

Hazardous decomposition

products

Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide,

carbon dioxide and/or low molecular weight hydrocarbons.

Possibility of hazardous

reactions

Will not occur.

11. Toxicological Information

Toxicological information Refer to Section 3 for potential health effects and Section 4 for first aid measures.

12. Ecological Information

Aquatic toxicity

Cyan ink

LC50/96h/Fathead minnows =463 mg/L

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

Yellow ink

LC50/96h/Fathead minnows =434 mg/L

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

Persistence and degradability Not available

13. Disposal Considerations

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

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

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

14. Transportation Information

Department of Transportation (DOT) Requirements

Not regulated as hazardous goods.

IATA

Proper shipping name Not applicable
Hazard class Not applicable

UN number None
Packing group N/A
Packaging exceptions None

15. Regulatory Information

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

Material nameCC642SERIESMSDS USCreation dateFeb 27, 2008Version number 35 / 7

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

Section 302 extremely

hazardous substance

No

Section 311 hazardous

chemical

No

International regulations All chemical substances in this HP product have been notified or are exempt from notification

under chemical substances notification laws in the following countries: US (TSCA), EU

(EINECS/ELINCS), Switzerland, Canada (DSL/NDSL), Australia, Japan, Philippines, South Korea,

New Zealand, and China.

State regulations

U.S. - Pennsylvania - RTK (Right to Know) List

Metal nitrate # 2 **Proprietary** [present]

U.S. - Pennsylvania - RTK (Right to Know) List

Nitric Acid, Magnesium Salt, **Proprietary** [present]

Hexahydrate

U.S. - New Jersey - Right to Know Hazardous Substance List

Metal nitrate # 2 **Proprietary** sn 1136

U.S. - New Jersey - Right to Know Hazardous Substance List

Nitric Acid, Magnesium Salt, **Proprietary** sn 1136

Hexahydrate

16. Other Information

HMIS® ratings Health: 1

> Flammability: 1 Physical hazard: 0

NFPA ratings Health: 1

> Flammability: 1 Instability: 0

Issue date Jun 19 2008 8:07PM

Revision

Replaces sheet dated Jun 19 2008 5:05PM

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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 nameCC642SERIESMSDS USCreation dateFeb 27, 2008Version number 37 / 7

1. Chemical Product and Company Identification

Material nameCC643SeriesUse of the preparationInkjet printing

Version # 03

Revision date 20-Jun-2008

Manufacturer information Hewlett-Packard Company

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 Date prepared
 Jun 19, 2008

 MSDS number
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Contact with skin may result in irritation.

1,5-pentanediol

Contact with skin may result in irritation.

Aliphatic diol

Contact with skin may result in irritation.

Ethyl alkyldiol

Contact with skin may result in mild irritation.

Metal nitrate # 2

Contact with skin may result in irritation.

Pyridine azo dye

May cause sensitization by skin contact. Substituted naphthalenesulfonate salt # 13 Contact with skin may result in irritation.

Material nameCC643SERIESMSDS USCreation dateFeb 27, 2008Version number 31 / 7

Eye contact

1-(2-hydroxyethyl)-2-pyrrolidone

Contact with eyes may result in irritation.

1,5-pentanediol

Contact with eyes may result in irritation.

Aliphatic diol

Contact with eyes may result in irritation.

Ethyl alkyldiol

Contact with eyes may result in mild irritation.

Metal nitrate # 2

Contact with eyes may result in irritation.

Pyridine azo dye

Contact with eyes may result in irritation. Substituted naphthalenesulfonate salt # 13 Contact with eyes may result in irritation. Substituted phthalocyanine salt #5

Risk of serious damage to eyes.

Inhalation

1-(2-hydroxyethyl)-2-pyrrolidone

Inhalation may result in respiratory irritation.

Aliphatic diol

Inhalation may result in respiratory irritation.

Metal nitrate # 2

Inhalation may result in respiratory irritation. Substituted naphthalenesulfonate salt # 13 Inhalation may result in respiratory irritation.

Ingestion

1-(2-hydroxyethyl)-2-pyrrolidone

Ingestion may result in nausea, vomiting and diarrhea.

Metal nitrate # 2

Contains nitrate salts, may cause methemoglobinemia.

Potential health effects

Routes of exposure

Potential routes of overexposure to this product are skin and eye contact

Inhalation of vapor and ingestion are not expected to be significant routes of exposure for this

product under normal use conditions.

Complete toxicity data are not available for this specific formulation

Chronic health effects

None known.

Carcinogenicity

None of the components present in this formulation at concentrations equal to or greater than

0.1% are listed by EU, MAK, IARC, NTP or OSHA.

Material name CC643SERIES MSDS US Creation date Feb 27, 2008 2 / 7



3. Composition / Information o	n Ingredients		
Component/Substance		CAS Number	% By Weight
Cyan ink			
Water		7732-18-5	> 60
Ethyl alkyldiol		Proprietary	< 10
1,5-pentanediol		111-29-5	< 7.5
1-(2-hydroxyethyl)-2-pyrrolidone		3445-11-2	< 5
Substituted phthalocyanine salt #5		Proprietary	< 5
Metal nitrate # 2		Proprietary	< 5
Aliphatic diol		629-11-8	< 5
Phenylenediamine derivative		Proprietary	< 2.5
Yellow ink		· ,	
Water		7732-18-5	> 60
1,5-pentanediol		111-29-5	< 15
Aliphatic diol		Proprietary	< 15
Substituted naphthalenesulfonate	alt # 13	Proprietary	< 7.5
Metal nitrate # 2	sait # 15	Proprietary	< 5
Magenta ink		Troprictary	
Water		7732-18-5	> 70
Aliphatic diol		Proprietary	< 15
1,5-pentanediol		111-29-5	< 7.5
, ,			< 7.5 < 5
Pyridine azo dye		Proprietary	
Nitric Acid, Magnesium Salt, Hexah	yarate	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			
First aid procedures			
Eye contact	Do not rub eyes. Immediately flush with large amounts of clean, warm water (low pressure for at least 15 minutes or until particles are removed. If irritation persists get medical attention		
Skin contact	Wash affected areas thoroughly with mild soap and water. If irritation persists get medical attention.		
Inhalation	Move to fresh air. If symptoms persist, get medical attention.		
Ingestion	If ingestion of a large amount does occur, seek medical attention.		
5. Fire Fighting Measures			
Flash point and method	> 200 °F (> 93.3	°C); Pensky-Martens Closed Cup	
Hazardous combustion products	Refer to section 1	10.	
Flammable properties	None known.		
Extinguishing media			
Suitable extinguishing media	CO2, water, dry o	chemical, or foam	
Unsuitable extinguishing media	None known.		
Unusual fire and explosion hazard	None known.		

Material nameCC643SERIESMSDS USCreation dateFeb 27, 2008Version number33 / 7



Special firefighting procedures

None established.

6. Accidental Release Measures

Personal precautions Wear appropriate personal protective equipment.

Environmental precautions Do not let product enter drains. Do not flush into surface water or sanitary sewer system.

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.

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

8. Exposure Controls/Personal Protection

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

Personal protective equipment

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

General hygeine considerations

Handle in accordance with good industrial hygiene and safety practice.

9. Physical & Chemical Properties

Color Cyan, magenta, yellow

Odor threshold Not available

Physical state Liquid.

Form

7.2 - 7.4Ηd

Melting point Not available Not available Freezing point

Boiling point Not determined

Flash point > 200 °F (> 93.3 °C); Pensky-Martens Closed Cup

Not determined **Evaporation rate** Not available. **Flammability** Not available Flammability limits in air, upper, % by volume

Flammability limits in air,

lower, % by volume

Not determined

Vapor pressure Not determined > 1 (air = 1.0)Vapor density

1 - 1.2 Specific gravity

Not available Relative density Solubility in water Soluble in water **Partition coefficient**

(n-octanol/water)

Not available

Material name CC643SERIES MSDS US Creation date Feb 27, 2008 **Version number** 3 4 / 7



Auto-ignition temperature Not available

Decomposition temperature Not available

VOC < 3 % **Viscosity** > 2 cp

10. Chemical Stability & Reactivity Information

Chemical stability Stable under recommended storage conditions.

Incompatible materials Incompatible with strong bases and oxidizing agents.

Hazardous decomposition

products

Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide,

carbon dioxide and/or low molecular weight hydrocarbons.

Possibility of hazardous

reactions

Will not occur.

11. Toxicological Information

Toxicological information Refer to Section 3 for potential health effects and Section 4 for first aid measures.

12. Ecological Information

Aquatic toxicity

Cyan ink

LC50/96h/Fathead minnows =463 mg/L

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

Yellow ink

LC50/96h/Fathead minnows =434 mg/L

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

Persistence and degradability Not available

13. Disposal Considerations

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

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

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

14. Transportation Information

Department of Transportation (DOT) Requirements

Not regulated as hazardous goods.

IATA

Proper shipping name Not applicable
Hazard class Not applicable

UN number None
Packing group N/A
Packaging exceptions None

15. Regulatory Information

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

Material nameCC643SERIESMSDS USCreation dateFeb 27, 2008Version number 35 / 7

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

Section 302 extremely

hazardous substance

No

Section 311 hazardous

chemical

No

International regulations All chemical substances in this HP product have been notified or are exempt from notification

under chemical substances notification laws in the following countries: US (TSCA), EU

(EINECS/ELINCS), Switzerland, Canada (DSL/NDSL), Australia, Japan, Philippines, South Korea,

New Zealand, and China.

State regulations

U.S. - Pennsylvania - RTK (Right to Know) List

Metal nitrate # 2 **Proprietary** [present]

U.S. - Pennsylvania - RTK (Right to Know) List

Nitric Acid, Magnesium Salt, **Proprietary** [present]

Hexahydrate

U.S. - New Jersey - Right to Know Hazardous Substance List

Metal nitrate # 2 **Proprietary** sn 1136

U.S. - New Jersey - Right to Know Hazardous Substance List

Nitric Acid, Magnesium Salt, **Proprietary** sn 1136

Hexahydrate

16. Other Information

HMIS® ratings Health: 1

> Flammability: 1 Physical hazard: 0

NFPA ratings Health: 1

> Flammability: 1 Instability: 0

Issue date Jun 19 2008 8:07PM

Revision

Replaces sheet dated Jun 19 2008 5:05PM

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.

Material name CC643SERIES MSDS US Creation date Feb 27, 2008 6 / 7

Explanation of abbreviations

ACGIH American Conference of Governmental Industrial Hygienists

CAS Chemical Abstracts Service

CERCLA Comprehensive Environmental Response Compensation and Liability Act

CFR Code of Federal Regulations

COC Cleveland Open Cup

DOT Department of Transportation

EPCRA Emergency Planning and Community Right-to-Know Act (aka SARA)

IARC International Agency for Research on Cancer

NIOSH National Institute for Occupational Safety and Health

NTP National Toxicology Program

OSHA Occupational Safety and Health Administration

PEL Permissible Exposure Limit

RCRA Resource Conservation and Recovery Act

REC Recommended

REL Recommended Exposure Limit

SARA Superfund Amendments and Reauthorization Act of 1986

STEL Short-Term Exposure Limit

TCLP Toxicity Characteristics Leaching Procedure

TLV Threshold Limit Value

TSCA Toxic Substances Control Act
VOC Volatile Organic Compounds

1. Chemical Product and Company Identification

Material nameCC644SeriesUse of the preparationInkjet printing

Version # 03

Revision date 20-Jun-2008

Manufacturer information Hewlett-Packard Company

1000 NE Circle Boulevard Corvallis, OR 97330-4239 US

Hewlett-Packard health effects line

(Toll-free within the US) 1-800-457-4209 **(Direct)** 1-503-494-7199

General information telephone number

 HP Customer Care Line
 1-800-474-6836

 (Toll-free)
 1-800-474-6836

 (Direct)
 1-208-323-2551

 Date prepared
 Jun 19, 2008

 MSDS number
 294310

2. Hazards Identification

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

Acute health effectsAny potential hazards are presumed to be due to exposure to the components.

Skin contact

1-(2-hydroxyethyl)-2-pyrrolidone

Contact with skin may result in irritation.

1,5-pentanediol

Contact with skin may result in irritation.

Aliphatic diol

Contact with skin may result in irritation.

Ethyl alkyldiol

Contact with skin may result in mild irritation.

Metal nitrate # 2

Contact with skin may result in irritation.

Pyridine azo dye

May cause sensitization by skin contact. Substituted naphthalenesulfonate salt # 13 Contact with skin may result in irritation.

Material nameCC644SERIESMSDS USCreation dateFeb 27, 2008Version number 31 / 7

Eye contact

1-(2-hydroxyethyl)-2-pyrrolidone

Contact with eyes may result in irritation.

1,5-pentanediol

Contact with eyes may result in irritation.

Aliphatic diol

Contact with eyes may result in irritation.

Ethyl alkyldiol

Contact with eyes may result in mild irritation.

Metal nitrate # 2

Contact with eyes may result in irritation.

Pyridine azo dye

Contact with eyes may result in irritation.

Substituted naphthalenesulfonate salt # 13

Contact with eyes may result in irritation.

Substituted phthalocyanine salt #5

Risk of serious damage to eyes.

Inhalation

1-(2-hydroxyethyl)-2-pyrrolidone

Inhalation may result in respiratory irritation.

Aliphatic diol

Inhalation may result in respiratory irritation.

Metal nitrate # 2

Inhalation may result in respiratory irritation. Substituted naphthalenesulfonate salt # 13 Inhalation may result in respiratory irritation.

Ingestion

1-(2-hydroxyethyl)-2-pyrrolidone

Ingestion may result in nausea, vomiting and diarrhea.

Metal nitrate # 2

Contains nitrate salts, may cause methemoglobinemia.

Potential health effects

Routes of exposure

Potential routes of overexposure to this product are skin and eye contact

Inhalation of vapor and ingestion are not expected to be significant routes of exposure for this

product under normal use conditions.

Complete toxicity data are not available for this specific formulation

Chronic health effects

None known.

Carcinogenicity

None of the components present in this formulation at concentrations equal to or greater than

0.1% are listed by EU, MAK, IARC, NTP or OSHA.

Material nameCC644SERIESMSDS USCreation dateFeb 27, 2008Version number 32 / 7



2 Composition / Information	n Ingradiants		
3. Composition / Information on Ingredients Component/Substance		CAS Number	% By Weight
Cyan ink		<u> </u>	70 27 110.g.t.
Water		7732-18-5	> 60
Ethyl alkyldiol		Proprietary	< 10
1,5-pentanediol		111-29-5	< 7.5
1,3-pentaneuloi 1-(2-hydroxyethyl)-2-pyrrolidone		3445-11-2	< 5
Substituted phthalocyanine salt #5		Proprietary	< 5
Metal nitrate # 2		Proprietary	< 5
		629-11-8	< 5
Aliphatic diol Phenylenediamine derivative		Proprietary	< 2.5
Yellow ink		Тторпесату	. 2.3
Water		7732-18-5	> 60
1,5-pentanediol		111-29-5	< 15
Aliphatic diol		Proprietary	< 15
Substituted naphthalenesulfonate	sal+ # 12		< 7.5
Metal nitrate # 2	odil # 13	Proprietary Proprietary	< 7.5 < 5
Magenta ink			
Water		7732-18-5	> 70
			< 15
Aliphatic diol		Proprietary 111-29-5	< 7.5
1,5-pentanediol			
Pyridine azo dye		Proprietary	< 5
Nitric Acid, Magnesium Salt, Hexah	yarate	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			
First aid procedures			
Eye contact	Do not rub eyes. Immediately flush with large amounts of clean, warm water (low pressure) for at least 15 minutes or until particles are removed. If irritation persists get medical attent		
Skin contact	Wash affected areas thoroughly with mild soap and water. If irritation persists get medical attention.		
Inhalation	Move to fresh air. If symptoms persist, get medical attention.		
Ingestion	If ingestion of a large amount does occur, seek medical attention.		
5. Fire Fighting Measures			
Flash point and method	> 200 °F (> 93.3 °C); Pensky-Martens Closed Cup		
Hazardous combustion products	Refer to section 1	0.	
Flammable properties	None known.		
Extinguishing media			
Suitable extinguishing media	CO2, water, dry o	hemical, or foam	
Unsuitable extinguishing media	None known.		
Unusual fire and explosion hazard	None known.		

Material nameCC644SERIESMSDS USCreation dateFeb 27, 2008Version number33 / 7



Special firefighting

None established.

procedures

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.

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.

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

8. Exposure Controls/Personal Protection

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

Personal protective equipment

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

General hygeine considerations

Handle in accordance with good industrial hygiene and safety practice.

9. Physical & Chemical Properties

Color Cyan, magenta, yellow

Odor threshold Not available

Physical state Liquid.

Form

7.2 - 7.4Ηd

Melting point Not available Not available Freezing point

Boiling point Not determined

Flash point > 200 °F (> 93.3 °C); Pensky-Martens Closed Cup

Not determined **Evaporation rate** Not available. **Flammability** Not available Flammability limits in air, upper, % by volume

Flammability limits in air, lower, % by volume

Not determined

Vapor pressure Not determined > 1 (air = 1.0)Vapor density

1 - 1.2 Specific gravity

Not available Relative density Solubility in water Soluble in water **Partition coefficient** Not available

(n-octanol/water)

Material name CC644SERIES MSDS US Creation date Feb 27, 2008 **Version number** 3

4 / 7



Auto-ignition temperatureNot availableDecomposition temperatureNot available

VOC < 3 % **Viscosity** > 2 cp

10. Chemical Stability & Reactivity Information

Chemical stability Stable under recommended storage conditions.

Incompatible materials Incompatible with strong bases and oxidizing agents.

Hazardous decomposition

products

Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide,

carbon dioxide and/or low molecular weight hydrocarbons.

Possibility of hazardous

reactions

Will not occur.

11. Toxicological Information

Toxicological information Refer to Section 3 for potential health effects and Section 4 for first aid measures.

12. Ecological Information

Aquatic toxicity

Cyan ink

LC50/96h/Fathead minnows =463 mg/L

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

Yellow ink

LC50/96h/Fathead minnows =434 mg/L

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

Persistence and degradability Not available

13. Disposal Considerations

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

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

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

14. Transportation Information

Department of Transportation (DOT) Requirements

Not regulated as hazardous goods.

IATA

Proper shipping name Not applicable
Hazard class Not applicable

UN number None
Packing group N/A
Packaging exceptions None

15. Regulatory Information

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

Material nameCC644SERIESMSDS USCreation dateFeb 27, 2008Version number 35 / 7

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

Section 302 extremely

hazardous substance

No

Section 311 hazardous

chemical

No

International regulations All chemical substances in this HP product have been notified or are exempt from notification

under chemical substances notification laws in the following countries: US (TSCA), EU

(EINECS/ELINCS), Switzerland, Canada (DSL/NDSL), Australia, Japan, Philippines, South Korea,

New Zealand, and China.

State regulations

U.S. - Pennsylvania - RTK (Right to Know) List

Metal nitrate # 2 **Proprietary** [present]

U.S. - Pennsylvania - RTK (Right to Know) List

Nitric Acid, Magnesium Salt, **Proprietary** [present]

Hexahydrate

U.S. - New Jersey - Right to Know Hazardous Substance List

Metal nitrate # 2 **Proprietary** sn 1136

U.S. - New Jersey - Right to Know Hazardous Substance List

Nitric Acid, Magnesium Salt, **Proprietary** sn 1136

Hexahydrate

16. Other Information

HMIS® ratings Health: 1

> Flammability: 1 Physical hazard: 0

NFPA ratings Health: 1

> Flammability: 1 Instability: 0

Issue date Jun 19 2008 8:07PM

Revision

Replaces sheet dated Jun 19 2008 5:05PM

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> 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.

Material name CC644SERIES MSDS US Creation date Feb 27, 2008 6 / 7



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 nameCC644SERIESMSDS USCreation dateFeb 27, 2008Version number 37 / 7