

CG351Series[Y]-SDS_UK-EU English-08.pdf

CG351Series[C]-SDS_UK-EU English-01.pdf

CG351Series[M]-SDS_UK-EU English-01.pdf



SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Identification of the preparation CG351Series[Y]
Use of the Substance/Preparation Inkjet printing
Version # 05
Revision date 11-Nov-2011
CAS # Mixture
Company identification Hewlett-Packard, Ltd.
Cain Road, Amen Corner
Bracknell, Berkshire, RG12 1HN
Telephone 1 344 36-0000

Hewlett-Packard health effects line
(Toll-free within the US) 1-800-457-4209
(Direct) 1-503-494-7199
HP Customer Care Line
(Toll-free within the US) 1-800-474-6836
(Direct) 1-208-323-2551
Email: hpcustomer.inquiries@hp.com
Poison Information Center 0207771 5307

2. HAZARDS IDENTIFICATION

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

Causes skin irritation.

Acute health effects

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

Skin contact

1,5-pentanediol
Contact with skin may result in irritation.
Aliphatic diol
Contact with skin may result in irritation.
Metal nitrate #2
Contact with skin may result in irritation.
Substituted naphthalenesulfonate salt #13
Contact with skin may result in irritation.

Eye contact

1,5-pentanediol
Contact with eyes may result in irritation.
Aliphatic diol
Contact with eyes may result in irritation.
Metal nitrate #2
Contact with eyes may result in irritation.
Substituted naphthalenesulfonate salt #13
Contact with eyes may result in irritation.

Inhalation

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

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.

Other information

This yellow ink is not classified according to EU Directive 1999/45/EC.

Classification

Not classified.

Physical hazards

Not classified as a physical hazard.

Health hazards

Not classified as a health hazard.

Environmental hazards

Not classified as an environmental hazard.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS #	Percent	EC-No.	Classification
1,5-pentanediol	111-29-5	< 15	203-854-4	
Aliphatic diol	Proprietary	< 15	Proprietary	
Metal nitrate #2	Proprietary	< 5	Proprietary	O;R8, Xi;R36/37/38
Substituted naphthalenesulfonate salt #13	Proprietary	< 7.5	Proprietary	
Water	7732-18-5	> 60	231-791-2	

Composition comments

This ink supply contains an aqueous ink formulation.

This product has been evaluated using criteria specified in the EU Directives 67/548/EEC and 1999/45/EC, as amended.

For the full text of the R phrases mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

Inhalation

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

Skin contact

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

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.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

CO₂, water, dry chemical, or foam

Extinguishing media which must not be used for safety reasons

None known.

Unusual fire & explosion hazards

None known.

Specific methods

None established.

Hazardous combustion products

Refer to section 10.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Wear appropriate personal protective equipment.

Environmental precautions

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

Containment procedures

Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using pumps.

Methods for cleaning up

Soak up with inert absorbent material.

Other information

Soak up with inert absorbent material. Slowly vacuum or sweep the material into a bag or other sealed container. Dispose of in compliance with federal, state, and local regulations. See also section 13 Disposal considerations.

7. HANDLING AND STORAGE

Handling	Avoid contact with skin, eyes and clothing.
Storage	Keep out of the reach of children. Keep away from excessive heat or cold.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional exposure data	Exposure limits have not been established for this product.
Exposure controls	Use in a well ventilated area.
Occupational exposure controls	
General	Use personal protective equipment to minimize exposure to skin and eye.
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Not available.
Physical state	Liquid
Form	liquid
Color	Yellow
Odor	Not available.
Odour threshold	Not available.
pH	7.2 - 7.4
Boiling point	Not determined
Flash point	> 93.3 °C (> 200 °F) Pensky-Martens Closed Cup
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not determined
Vapor pressure	Not determined
Relative density	Not available.
Solubility (water)	Soluble in water
Partition coefficient (n-octanol/water)	Not available
Viscosity	2 cp
Vapor density	Not available.
Evaporation rate	Not determined
Melting point	Not available.
Freezing point	Not available.
Auto-ignition temperature	Not determined
Specific gravity	1 - 1.2
VOC	< 241 g/l

10. STABILITY AND REACTIVITY

Hazardous decomposition products	Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.
Stability	Stable under recommended storage conditions.
Materials to avoid	Incompatible with strong bases and oxidizing agents.
Hazardous polymerization	Will not occur.

11. TOXICOLOGICAL INFORMATION

Toxicological information	Refer to Section 2 for potential health effects and Section 4 for first aide measures.
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 aide measures.

12. ECOLOGICAL INFORMATION

Aquatic toxicity	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%
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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. TRANSPORT INFORMATION

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

ADR

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

RID

Not regulated as dangerous goods.

15. REGULATORY INFORMATION

Labeling

Contains 1,5-pentanediol, Aliphatic diol, Metal nitrate #2, Substituted naphthalenesulfonate salt #13, Water

EC Label This product does not require a label according to EU Directive 1999/45/EC.

S-phrases(s) S2 Keep out of the reach of children.

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

Wording of the R-phrases in sections 2 and 3 R8 Contact with combustible material may cause fire.
R36/37/38 Irritating to eyes, respiratory system and skin.

Other information This MSDS was prepared in compliance with EU Directive 91/155/EEC as amended by 2001/58/EC.

Disclaimer This Safety Data Sheet document is provided without charge to customers of Hewlett-Packard Company. Data is the most current known to Hewlett-Packard Company at the time of preparation of this document and is believed to be accurate. It should not be construed as guaranteeing specific properties of the products as described or suitability for a particular application. This document was prepared to the requirements of the jurisdiction specified in Section 1 above and may not meet regulatory requirements in other countries.

Issue date 11-Nov-2011

This data sheet contains changes from the previous version in section(s): PHYSICAL AND CHEMICAL PROPERTIES: Other information
TRANSPORT INFORMATION: Further information
REGULATORY INFORMATION: Other information

Manufacturer information Hewlett-Packard Company
3000 Hanover Street
Palo Alto, California 94304-1112 US
(Direct) 1-503-494-7199
(Toll-free within the US) 1-800-457-4209

Explanation of abbreviations

ACGIH	American Conference of Governmental Industrial Hygienists
CAS	Chemical Abstracts Service
CERCLA	Comprehensive Environmental Response Compensation and Liability Act
CFR	Code of Federal Regulations
COC	Cleveland Open Cup
DOT	Department of Transportation
EPCRA	Emergency Planning and Community Right-to-Know Act (aka SARA)
IARC	International Agency for Research on Cancer
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
RCRA	Resource Conservation and Recovery Act
REC	Recommended
REL	Recommended Exposure Limit
SARA	Superfund Amendments and Reauthorization Act of 1986
STEL	Short-term exposure limit
TCLP	Toxicity Characteristics Leaching Procedure
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act
VOC	Volatile Organic Compounds



SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Identification of the preparation CG351Series[C]
Use of the Substance/Preparation Inkjet printing
Version # 01
Revision date 09-Nov-2011
CAS # Mixture
Company identification Hewlett-Packard, Ltd.
Cain Road, Amen Corner
Bracknell, Berkshire, RG12 1HN
Telephone 1 344 36-0000

Hewlett-Packard health effects line
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Email: hpcustomer.inquiries@hp.com
Poison Information Center 0207771 5307

2. HAZARDS IDENTIFICATION

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

Causes skin irritation.

Acute health effects

Skin contact

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

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.

Copper phthalocyanine direct dye salt

Contact with skin may result in irritation.

Ethyl alkyl diol

Contact with skin may result in mild irritation.

Metal nitrate #2

Contact with skin may result in irritation.

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.

Copper phthalocyanine direct dye salt

Contact with eyes may result in irritation.

Risk of serious damage to eyes.

Ethyl alkyl diol

Contact with eyes may result in mild irritation.

Metal nitrate #2

Contact with eyes may result in irritation.

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.

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.

Other information

This blue ink is not classified according to EU Directive 1999/45/EC.

Classification

Not classified.

Physical hazards

Not classified as a physical hazard.

Health hazards

Not classified as a health hazard.

Environmental hazards

Not classified as an environmental hazard.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS #	Percent	EC-No.	Classification
1-(2-hydroxyethyl)-2-pyrrolidone	3445-11-2	< 5	222-359-4	
1,5-pentanediol	111-29-5	< 7.5	203-854-4	
Aliphatic diol	Proprietary	< 5	Proprietary	
Copper phthalocyanine direct dye salt	Proprietary	< 5	Proprietary	Xi;R41, R52/53
Ethyl alkyldiol	Proprietary	< 10	Proprietary	
Metal nitrate #2	Proprietary	< 5	Proprietary	O;R8, Xi;R36/37/38
Water	7732-18-5	> 65	231-791-2	

Composition comments

This ink supply contains an aqueous ink formulation.

This product has been evaluated using criteria specified in the EU Directives 67/548/EEC and 1999/45/EC, as amended.

For the full text of the R phrases mentioned in this Section, see Section 16.

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.

5. FIRE-FIGHTING MEASURES**Suitable extinguishing media**Dry chemical, CO₂, water spray or regular foam.**Extinguishing media which must not be used for safety reasons**

None known.

Unusual fire & explosion hazards

None known.

Specific methods

None established.

Hazardous combustion products Refer to section 10.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions Wear appropriate personal protective equipment.

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

Containment procedures Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using pumps.

Methods for cleaning up Soak up with inert absorbent material.

Other information Soak up with inert absorbent material. Slowly vacuum or sweep the material into a bag or other sealed container. Dispose of in compliance with federal, state, and local regulations. See also section 13 Disposal considerations.

7. HANDLING AND STORAGE

Handling Avoid contact with skin, eyes and clothing.

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional exposure data Exposure limits have not been established for this product.

Exposure controls Use in a well ventilated area.

Occupational exposure controls

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

Hygiene measures Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Liquid.

Physical state Liquid

Form Not available.

Color Cyan

Odor Not available.

Odour threshold Not available.

pH 7 - 7.5

Boiling point Not determined

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

Flammability limits in air, upper, % by volume Not available.

Flammability limits in air, lower, % by volume Not determined

Vapor pressure Not determined

Relative density Not available.

Solubility (water) Soluble in water

Partition coefficient (n-octanol/water) Not available

Viscosity Not available.

Vapor density Not available.

Evaporation rate Not determined

Melting point Not available.

Freezing point Not available.

Auto-ignition temperature Not determined

Specific gravity Not determined

VOC < 307 g/l

10. STABILITY AND REACTIVITY

Hazardous decomposition products Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

Stability Stable under recommended storage conditions.

Materials to avoid Incompatible with strong bases and oxidizing agents.

Hazardous polymerization Will not occur.

11. TOXICOLOGICAL INFORMATION

Serious eye damage/eye irritation	Not available.
Further information	This ink formulation has not been tested for toxicological effects. Refer to Section 2 for potential health effects and Section 4 for first aide measures.

12. ECOLOGICAL INFORMATION

Ecotoxicity	EC50: > 100 mg/l, Algae, 72.00 hr EC50: > 100 mg/l, Daphnia, 48.00 hr NOEC: 100 mg/l, Algae, 72.00 hr Information given is based on data on the components and the ecotoxicology of similar products
Aquatic toxicity	Not established.

13. DISPOSAL CONSIDERATIONS

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

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

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

RID

Not regulated as dangerous goods.

15. REGULATORY INFORMATION

Labeling

Contains	1-(2-hydroxyethyl)-2-pyrrolidone, 1,5-pentanediol, Aliphatic diol, Copper phthalocyanine direct dye salt, Ethyl alkyl diol, Metal nitrate #2, Water
EC Label	This product does not require a label according to EU Directive 1999/45/EC.
S-phrase(s)	S2 Keep out of the reach of children.

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.
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16. OTHER INFORMATION

Wording of the R-phrases in sections 2 and 3	R8 Contact with combustible material may cause fire. R36/37/38 Irritating to eyes, respiratory system and skin. R41 Risk of serious damage to eyes. R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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Other information	This MSDS was prepared in compliance with EU Directive 91/155/EEC as amended by 2001/58/EC.
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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.
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Issue date	09-Nov-2011
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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
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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 OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Identification of the preparation CG351Series[M]
Use of the Substance/Preparation Inkjet printing
Version # 01
Revision date 10-Nov-2011
CAS # Mixture
Company identification Hewlett-Packard, Ltd.
Cain Road, Amen Corner
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Telephone 1 344 36-0000

Hewlett-Packard health effects line
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Poison Information Center 0207771 5307

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.

Acute health effects

Skin contact

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

1,5-pentanediol

Contact with skin may result in irritation.

2-pyrrolidone

Contact with skin may result in irritation.

Aliphatic diol

Contact with skin may result in irritation.

Anthraquinone acid dye salt

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.

Eye contact

1,5-pentanediol

Contact with eyes may result in irritation.

2-pyrrolidone

Contact with eyes may result in irritation.

Aliphatic diol

Contact with eyes may result in irritation.

Anthraquinone acid dye salt

Contact with eyes may cause irritation.

Ethyl alkyldiol

Contact with eyes may result in mild irritation.

Metal nitrate #2

Contact with eyes may result in irritation.

Inhalation*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.

Ingestion*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.

Other information

This blue ink is not classified according to EU Directive 1999/45/EC.

Classification

R52/53

Physical hazards

Not classified as a physical hazard.

Health hazards

Not classified as a health hazard.

Environmental hazards

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS #	Percent	EC-No.	Classification
1,5-pentanediol	111-29-5	< 5	203-854-4	
2-pyrrolidone	616-45-5	< 5	210-483-1	Xi;R36/38
Aliphatic diol	Proprietary	< 15	Proprietary	
Anthraquinone acid dye salt	Proprietary	< 7.8	Proprietary	
Ethyl alkyldiol	Proprietary	< 5	Proprietary	
Metal nitrate #2	Proprietary	< 5	Proprietary	O;R8, Xi;R36/37/38
Water	7732-18-5	> 65	231-791-2	

Composition comments

This ink supply contains an aqueous ink formulation.

This product has been evaluated using criteria specified in the EU Directives 67/548/EEC and 1999/45/EC, as amended.

For the full text of the R phrases mentioned in this Section, see Section 16.

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.

5. FIRE-FIGHTING MEASURES**Suitable extinguishing media**Dry chemical, CO₂, water spray or regular foam.**Extinguishing media which must not be used for safety reasons**

None known.

Unusual fire & explosion hazards

None known.

Specific methods

None established.

Hazardous combustion products Refer to section 10.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions Wear appropriate personal protective equipment.

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

Containment procedures Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using pumps.

Methods for cleaning up Soak up with inert absorbent material.

Other information Soak up with inert absorbent material. Slowly vacuum or sweep the material into a bag or other sealed container. Dispose of in compliance with federal, state, and local regulations. See also section 13 Disposal considerations.

7. HANDLING AND STORAGE

Handling Avoid contact with skin, eyes and clothing.

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional exposure data Exposure limits have not been established for this product.

Exposure controls Use in a well ventilated area.

Occupational exposure controls

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

Hygiene measures Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Liquid.

Physical state Liquid

Form Not available.

Color Magenta

Odor Not available.

Odour threshold Not available.

pH 7 - 7.5

Boiling point Not determined

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

Flammability limits in air, upper, % by volume Not available.

Flammability limits in air, lower, % by volume Not determined

Vapor pressure Not determined

Relative density Not available.

Solubility (water) Soluble in water

Partition coefficient (n-octanol/water) Not available

Viscosity Not available.

Vapor density Not available.

Evaporation rate Not determined

Melting point Not available.

Freezing point Not available.

Auto-ignition temperature Not determined

Specific gravity Not determined

VOC < 315 g/l

10. STABILITY AND REACTIVITY

Hazardous decomposition products Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

Stability Stable under recommended storage conditions.

Materials to avoid Incompatible with strong bases and oxidizing agents.

Hazardous polymerization Will not occur.

11. TOXICOLOGICAL INFORMATION

Serious eye damage/eye irritation	Not available.
Further information	This ink formulation has not been tested for toxicological effects. Refer to Section 2 for potential health effects and Section 4 for first aide measures.

12. ECOLOGICAL INFORMATION

Ecotoxicity	This product has not been tested for ecological effects.
Aquatic toxicity	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

13. DISPOSAL CONSIDERATIONS

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

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

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

RID

Not regulated as dangerous goods.

15. REGULATORY INFORMATION

Labeling

Contains	1,5-pentanediol, Aliphatic diol, Anthraquinone acid dye salt, Ethyl alkyl diol, Metal nitrate #2, Water
EC Label	This product does not require a label according to EU Directive 1999/45/EC.
R-phrases(s)	R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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.
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16. OTHER INFORMATION

Wording of the R-phrases in sections 2 and 3	R8 Contact with combustible material may cause fire. R36/37/38 Irritating to eyes, respiratory system and skin. R36/38 Irritating to eyes and skin. R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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Other information	This MSDS was prepared in compliance with EU Directive 91/155/EEC as amended by 2001/58/EC.
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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.
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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