

Q2298Series[C]-SDS_UK-EU English-01.pdf

Q2298Series[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 Q2298Series[C]
Use of the Substance/Preparation Inkjet printing
Version # 01
Revision date 19-Jan-2012
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
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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.

Alkyldiol ethoxylate

Contact with skin may result in severe irritation.

Ammonium nitrate

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.

Alkyldiol ethoxylate

Contact can cause moderate to severe irritation and possible injury to the eyes.

Ammonium nitrate

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.

Inhalation*2-pyrrolidone*

Inhalation may result in respiratory irritation.

Ammonium nitrate

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.

Alkyldiol ethoxylate

Ingestion may cause irritation of mouth, throat, nausea, vomiting and diarrhea.

Ammonium nitrate

Contains nitrate salts, may cause methemoglobinemia.

Metal nitrate #2

Contains nitrate salts, may cause methemoglobinemia.

Substituted phthalocyanine salt #2

Harmful if swallowed.

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

Cyan ink:

Substituted phthalocyanine salt: Prolonged ingestion exposure may cause serious damage to health.

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.

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 |
|------------------------------------|-------------|---------|-------------|--------------------------------|
| Ammonium nitrate | 6484-52-2 | < 2.5 | 229-347-8 | O;R8, Xi;R36/37/38 |
| 1,5-pentanediol | 111-29-5 | < 10 | 203-854-4 | |
| 2-pyrrolidone | 616-45-5 | < 7.5 | 210-483-1 | Xi;R36/38 |
| Alkyldiol ethoxylate | Proprietary | < 2.5 | Proprietary | Xn;R21/22, Xi;R38-41, N;R51/53 |
| Ethyl alkyldiol | Proprietary | < 10 | Proprietary | |
| Metal nitrate #2 | Proprietary | < 7.5 | Proprietary | O;R8, Xi;R36/37/38 |
| Substituted phthalocyanine salt #2 | Proprietary | < 2.5 | Proprietary | Xn;R48/22, N;R51/53 |
| 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 | For small (incipient) fires, use media such as foam, sand, dry chemical, or carbon dioxide. For large fires use very large (flooding) quantities of water and/or foam, applied as a mist or spray. |
| 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. |
| 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 | Not available. |
| Color | Cyan |
| Odor | Not available. |
| Odour threshold | Not available. |
| pH | 6.5 |
| 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 available. |
| 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 available. |
| Specific gravity | 1.1 |
| VOC | < 338 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 aid 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 aid measures. |

12. ECOLOGICAL INFORMATION

| | |
|-------------------------|--------------------------------------|
| Aquatic toxicity | LC50/96h/Fathead minnows =< 400 mg/L |
|-------------------------|--------------------------------------|

13. DISPOSAL CONSIDERATIONS

| | |
|------------------------------|---|
| Disposal instructions | Do not allow this material to drain into sewers/water supplies. Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations. HP's Planet Partners (trademark) supplies recycling program enables simple, convenient recycling of HP original inkjet and LaserJet supplies. For more information and to determine if this service is available in your location, please visit http://www.hp.com/recycle . |
|------------------------------|---|

14. TRANSPORT 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, 2-pyrrolidone, Alkyldiol ethoxylate, Ammonium nitrate, Ethyl alkyldiol, Metal nitrate #2, Substituted phthalocyanine salt #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. |
| S-phrases(s) | S2 Keep out of the reach of children. S24/25 Avoid contact with skin and eyes. S61 Avoid release to the environment. Refer to special instructions/ Safety data sheets. |

| | |
|-------------------------------|--|
| 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.
R21/22 Harmful in contact with skin and if swallowed.
R22 Harmful if swallowed.
R36/37/38 Irritating to eyes, respiratory system and skin.
R36/38 Irritating to eyes and skin.
R38 Irritating to skin.
R41 Risk of serious damage to eyes.
R48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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

19-Jan-2012

Manufacturer information

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(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 |



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Identification of the preparation Q2298Series[M]
Use of the Substance/Preparation Inkjet printing
Version # 01
Revision date 19-Jan-2012
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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.

1,5-pentanediol

Contact with skin may result in irritation.

2-pyrrolidone

Contact with skin may result in irritation.

Alkyldiol ethoxylate

Contact with skin may result in severe irritation.

Amino alkyldiol

Contact with skin may result in irritation.

Ammonium nitrate

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.

Alkyldiol ethoxylate

Contact can cause moderate to severe irritation and possible injury to the eyes.

Amino alkyldiol

Contact with eyes may result in irritation.

Ammonium nitrate

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.

Inhalation*2-pyrrolidone*

Inhalation may result in respiratory irritation.

Amino alkyldiol

Inhalation may result in respiratory irritation.

Ammonium nitrate

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.

Alkyldiol ethoxylate

Ingestion may cause irritation of mouth, throat, nausea, vomiting and diarrhea.

Ammonium nitrate

Contains nitrate salts, may cause methemoglobinemia.

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

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.

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 | < 10 | 203-854-4 | |
| 2-pyrrolidone | 616-45-5 | < 7.5 | 210-483-1 | Xi;R36/38 |
| Alkyldiol ethoxylate | Proprietary | < 2.5 | Proprietary | Xn;R21/22, Xi;R38-41, N;R51/53 |
| Amino alkyldiol | Proprietary | < 2.5 | Proprietary | Xi;R36/37/38 |
| Ammonium nitrate | 6484-52-2 | < 2.5 | 229-347-8 | O;R8, Xi;R36/37/38 |
| Ethyl alkyldiol | Proprietary | < 10 | Proprietary | |
| Metal nitrate #2 | Proprietary | < 7.5 | Proprietary | O;R8, Xi;R36/37/38 |
| Substituted naphthalenesulfonate salt #8 | Proprietary | < 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 | For small (incipient) fires, use media such as foam, sand, dry chemical, or carbon dioxide. For large fires use very large (flooding) quantities of water and/or foam, applied as a mist or spray. |
| 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. |
| 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 | Not available. |
| Color | Magenta |
| Odor | Not available. |
| Odour threshold | Not available. |
| pH | 6.5 |
| 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 | 2 cp |
| Vapor density | Not available. |
| Evaporation rate | Not determined |
| Melting point | Not available. |
| Freezing point | Not available. |
| Auto-ignition temperature | Not available. |
| Specific gravity | 1.1 |
| VOC | < 349 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 aid 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 aid measures. |

12. ECOLOGICAL INFORMATION

| | |
|-------------------------|--------------------------------------|
| Aquatic toxicity | LC50/96h/Fathead minnows =< 400 mg/L |
|-------------------------|--------------------------------------|

13. DISPOSAL CONSIDERATIONS

| | |
|------------------------------|---|
| Disposal instructions | Do not allow this material to drain into sewers/water supplies. Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations. HP's Planet Partners (trademark) supplies recycling program enables simple, convenient recycling of HP original inkjet and LaserJet supplies. For more information and to determine if this service is available in your location, please visit http://www.hp.com/recycle . |
|------------------------------|---|

14. TRANSPORT 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, 2-pyrrolidone, Alkyldiol ethoxylate, Amino alkyldiol, Ammonium nitrate, Ethyl alkyldiol, Metal nitrate #2, Substituted naphthalenesulfonate salt #8, Water

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

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.
R21/22 Harmful in contact with skin and if swallowed.
R36/37/38 Irritating to eyes, respiratory system and skin.
R36/38 Irritating to eyes and skin.
R38 Irritating to skin.
R41 Risk of serious damage to eyes.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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

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(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 |