



MATERIAL SAFETY DATA SHEET

1. Chemical Product and Company Identification

Material name Q3279A
Use of the preparation Inkjet printing
Version # 07
Revision date 01-Apr-2008
CAS # Mixture
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 Apr 01, 2008
MSDS number 265461

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.

Skin contact

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.



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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.

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.



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3. Composition / Information on Ingredients

| Component/Substance | CAS Number | % By Weight |
|-------------------------------------|-------------|-------------|
| Cyan ink | | |
| Water | 7732-18-5 | > 60 |
| 1,5-pentanediol | 111-29-5 | < 10 |
| Ethyl alkyldiol | Proprietary | < 7.5 |
| 2-pyrrolidone | 616-45-5 | < 7.5 |
| Metal nitrate # 2 | Proprietary | < 7.5 |
| Alkyldiol ethoxylate | Proprietary | < 2.5 |
| Substituted phthalocyanine salt # 2 | Proprietary | < 2.5 |
| Ammonium nitrate | 6484-52-2 | < 2.5 |
| Magenta ink | | |
| Water | 7732-18-5 | > 60 |
| 1,5-pentanediol | 111-29-5 | < 10 |
| Ethyl alkyldiol | Proprietary | < 7.5 |
| 2-pyrrolidone | 616-45-5 | < 7.5 |
| Metal nitrate # 2 | Proprietary | < 7.5 |
| Alkyldiol ethoxylate | Proprietary | < 2.5 |
| Amino alkyldiol | Proprietary | < 2.5 |
| Ammonium nitrate | 6484-52-2 | < 2.5 |
| Yellow ink | | |
| Water | 7732-18-5 | > 60 |
| 1,5-pentanediol | 111-29-5 | < 10 |
| Ethyl alkyldiol | Proprietary | < 7.5 |
| 2-pyrrolidone | 616-45-5 | < 7.5 |
| Metal nitrate # 2 | Proprietary | < 7.5 |
| Alkyldiol ethoxylate | Proprietary | < 2.5 |
| Ammonium nitrate | 6484-52-2 | < 2.5 |

Composition comments

This ink supply contains an aqueous ink formulation.
This product has been evaluated using criteria specified in 29 CFR 1910.1200 (Hazard Communication Standard).

4. First Aid Measures

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 10.

Flammable properties

None known.

Extinguishing media

Suitable extinguishing media

CO₂, water, dry chemical, or foam



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| | |
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| Unsuitable extinguishing media | None known. |
| Unusual fire and explosion hazard | None known. |
| Special firefighting procedures | None established. |

6. Accidental Release Measures

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|----------------------------------|--|
| 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

| | |
|---------------------------------------|---|
| 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 hygiene considerations | Handle in accordance with good industrial hygiene and safety practice. |

9. Physical & Chemical Properties

| | |
|---|---|
| Appearance | Not Available |
| Color | Cyan, magenta, yellow |
| Odor | Not Available |
| Odor threshold | Not available |
| Physical state | Liquid. |
| Form | Not Available |
| pH | 6.5 - 8.75 |
| Melting point | Not available |
| Freezing point | Not available |
| Boiling point | Not determined |
| Flash point | > 200 °F (> 93.3 °C); Pensky-Martens Closed Cup |
| Evaporation rate | Not determined |
| Flammability | Not available. |
| Flammability limits in air, upper, % by volume | Not available |
| Flammability limits in air, lower, % by volume | Not determined |
| Vapor pressure | Not determined |



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| Vapor density | > 1 (air = 1.0) |
| Specific gravity | 1 - 1.2 |
| Relative density | Not available |
| Solubility in water | Soluble in water |
| Partition coefficient (n-octanol/water) | Not available |
| Auto-ignition temperature | Not available |
| Decomposition temperature | Not available |
| VOC | < 3 % |
| Viscosity | > 2 cp |

10. Chemical Stability & Reactivity Information

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|---|---|
| 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. <i>Cyan ink</i> Refer to Section 3 for potential health effects and Section 4 for first aid measures. <i>Magenta ink</i> Refer to Section 3 for potential health effects and Section 4 for first aid measures. <i>Yellow ink</i> Refer to Section 3 for potential health effects and Section 4 for first aid measures. |
|----------------------------------|--|

12. Ecological Information

| | |
|--------------------------------------|---|
| Aquatic toxicity | <i>Cyan ink</i> LC50/96h/Fathead minnows =< 400 mg/L Static acute toxicity (trout), survival (100 mg/L) = 100% Static acute toxicity (trout), survival (10 mg/L) = 100% <i>Magenta ink</i> LC50/96h/Fathead minnows =< 400 mg/L Static acute toxicity (trout), survival (100 mg/L) = 100% Static acute toxicity (trout), survival (10 mg/L) = 100% <i>Yellow ink</i> LC50/96h/Fathead minnows =< 400 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 |



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

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. - New Jersey - Right to Know Hazardous Substance List
Metal nitrate # 2 Proprietary sn 1143

16. Other Information

HMIS® ratings Health: 1
Flammability: 1
Physical hazard: 0

NFPA ratings Health: 1
Flammability: 1
Instability: 0

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Revision 7
Replaces sheet dated Mar 26 2008 7:41AM

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.

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 |