



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name C1Q40Series
Version # 01
Issue date 14-Feb-2014
Product use Inkjet printing. For use only in inkjet printing
CAS # Mixture
Company identification Hewlett-Packard Company
3000 Hanover Street
Palo Alto, CA 94304-1185
United States
Telephone 650-857-5020

Hewlett-Packard health effects line
(Toll-free within the US) 1-800-457-4209
(Direct) 1-760-710-0048
HP Customer Care Line
(Toll-free within the US) 1-800-474-6836
(Direct) 1-208-323-2551
Email: hpcustomer.inquiries@hp.com

2. Hazards Identification

Emergency overview Contact with skin and eyes may result in irritation.
Other hazards Potential routes of overexposure to this product are skin and eye contact. Inhalation of vapor and ingestion are not expected to be significant routes of exposure for this product under normal use conditions. Complete toxicity data are not available for this specific formulation.

3. Composition / Information on Ingredients

Hazardous components	CAS #	Percent
Diethylene glycol	111-46-6	<5
Non-hazardous components	CAS #	Percent
Water	7732-18-5	>70
Cyclo Amide	Proprietary	<10
Trade Secret Yellow Pigment	Proprietary	<5
1-(2-hydroxyethyl)-2-pyrrolidone	3445-11-2	<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

General advice No information
First aid procedures
Eye contact Do not rub eyes. Immediately flush with large amounts of clean, warm water (low pressure) for at least 15 minutes or until particles are removed. If irritation persists get medical attention.
Skin contact Wash affected areas thoroughly with mild soap and water. Get medical attention if irritation develops or persists.
Inhalation Remove to fresh air. If symptoms persist, get medical attention.
Ingestion If ingestion of a large amount does occur, seek medical attention.

5. Fire Fighting Measures

Flammable properties	Hydrogen fluoride, a corrosive and toxic gas, and other potentially hazardous fluorine-containing compounds may be released upon combustion.
Extinguishing media	
Suitable extinguishing media	Dry chemical, CO ₂ , water spray or regular foam.
Unsuitable extinguishing media	None known.
Fire fighting equipment/instructions	Not available.
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.
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. Keep at temperatures between 15 and 35°C.

8. Exposure Controls / Personal Protection

Occupational exposure limits

US. AIHA Workplace Environmental Exposure Level (WEEL) Guides

Components	Type	Value
Diethylene glycol (CAS 111-46-6)	TWA	10 mg/m ³

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.
Eye / face protection	Wear safety glasses with side shields (or goggles).
Skin protection	Wear appropriate chemical resistant clothing.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.

9. Physical & Chemical Properties

Appearance	Not available.
Physical state	Liquid.
Form	Not available.
Color	Yellow
Odor	Not available.
pH	8 - 10 9
Vapor pressure	Not available.
Boiling point	Not available.
Melting point/Freezing point	Not available.
Solubility (water)	Not available.

Specific gravity	1 - 1.1
Flash point	> 200.00 °F (> 93.33 °C) Pensky-Martens Closed Cup
VOC	< 182 g/l
Other information	For other VOC regulatory data/information see Section 15.

10. Chemical Stability & Reactivity Information

Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	No information available
Incompatible materials	Incompatible with strong bases and oxidizing agents.
Hazardous decomposition products	Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons., fluorinated hydrocarbons and hydrogen fluoride.
Possibility of hazardous reactions	None known.

11. Toxicological Information

Toxicological data

Components	Species	Test Results
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Diethylene glycol (CAS 111-46-6)

Acute

Dermal

LD50	Rabbit	11890 mg/kg
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Oral

LD50	Cat	3300 mg/kg
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	Dog	9000 mg/kg
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	Guinea pig	8700 mg/kg
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		14 g/kg
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	Mouse	23700 mg/kg
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		13.3 g/kg
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	Rabbit	26.9 g/kg
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	Rat	12565 mg/kg
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		15.6 g/kg
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Other

LD50	Mouse	22500 mg/kg
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		9.6 g/kg
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	Rabbit	2000 mg/kg
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	Rat	7700 mg/kg
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		7.7 g/kg
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Carcinogenicity No data available.

Serious eye damage/eye irritation Not available.

Further information This ink formulation has not been tested for toxicological effects. Refer to Section 2 for potential health effects and Section 4 for first aid measures.

12. Ecological Information

Aquatic toxicity No information available.

Ecotoxicological data

Product	Species	Test Results
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C1Q40Series (CAS Mixture)

Aquatic

Fish	LC50	Fathead minnow (<i>Pimephales promelas</i>) > 750 mg/l, 96 Hours
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Components	Species	Test Results
Diethylene glycol (CAS 111-46-6)		
Aquatic		
Fish	LC50	Western mosquitofish (<i>Gambusia affinis</i>) > 32000 mg/l, 96 hours
Ecotoxicity	No information available.	
Persistence and degradability	Not available.	
Bioaccumulation / Accumulation		
13. Disposal Considerations		
Disposal instructions	Dispose of in compliance with federal, state, and local regulations.	
14. Transport Information		
DOT	Not regulated as dangerous goods.	
IATA	Not regulated as dangerous goods.	
IMDG	Not regulated as dangerous goods.	
RID	Not regulated as dangerous goods.	
Further information	Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.	
15. Regulatory Information		
US federal regulations	US TSCA 12(b): Does not contain listed chemicals. US EPA TSCA Inventory: All chemical substances in this product comply with all rules or orders under TSCA.	
Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number	Not listed.	
Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))	Not regulated.	
DEA Exempt Chemical Mixtures Code Number	Not regulated.	
TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)	Not regulated.	
CERCLA (Superfund) reportable quantity	None	
Superfund Amendments and Reauthorization Act of 1986 (SARA)		
Hazard categories	Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No	
SARA 302 Extremely hazardous substance	No	
SARA 311/312 Hazardous chemical	No	
Other information	VOC content (less water, less exempt compounds) = < 946 g/L (U.S. requirement, not for emissions) VOC data based on formulation (Organic compounds minus solids)	
State regulations		
US. Massachusetts RTK - Substance List	Not regulated.	

US. Pennsylvania RTK - Hazardous Substances

Diethylene glycol (CAS 111-46-6)

Listed.

US. Rhode Island RTK

Diethylene glycol (CAS 111-46-6)

16. Other Information**HMIS® ratings**

Health: 1
 Flammability: 1
 Physical hazard: 0

NFPA ratings

Health: 1
 Flammability: 1
 Instability: 0

Disclaimer

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

Other information

This MSDS was prepared in accordance with USA OSHA Hazard Communications regulation (29 CFR 1910.1200).

Issue date

14-Feb-2014

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

1. Product and Company Identification: Alternate Trade Names
 Hazards Identification: Other hazards
 Composition / Information on Ingredients: Ingredients
 9. Physical & Chemical Properties: 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