



# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

**Material name** C1Q36Series  
**Version #** 01  
**Issue date** 18-Feb-2014  
**Product use** Inkjet printing. For use only in inkjet printing  
**CAS #** Mixture  
**Company identification** Hewlett-Packard Company  
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United States  
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## 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

<b>Hazardous components</b>	<b>CAS #</b>	<b>Percent</b>
Diethylene glycol	111-46-6	<2.5
<b>Non-hazardous components</b>	<b>CAS #</b>	<b>Percent</b>
Water	7732-18-5	>80
Cyclo Amide	Proprietary	<10
Trade Secret Black Pigment	Proprietary	<1

**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).  
  
Carbon black is present only in a bound form in this preparation.

## 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.

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## 5. Fire Fighting Measures

<b>Flammable properties</b>	Hydrogen fluoride, a corrosive and toxic gas, and other potentially hazardous fluorine-containing compounds may be released upon combustion.
<b>Extinguishing media</b>	
<b>Suitable extinguishing media</b>	Dry chemical, CO <sub>2</sub> , water spray or regular foam.
<b>Unsuitable extinguishing media</b>	None known.
<b>Fire fighting equipment/instructions</b>	Not available.
<b>Specific methods</b>	None established.
<b>Hazardous combustion products</b>	Refer to section 10.

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## 6. Accidental Release Measures

<b>Personal precautions</b>	Wear appropriate personal protective equipment.
<b>Environmental precautions</b>	Do not let product enter drains. Do not flush into surface water or sanitary sewer system.
<b>Methods for cleaning up</b>	Soak up with inert absorbent material.
<b>Other information</b>	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.

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## 7. Handling and Storage

<b>Handling</b>	Avoid contact with skin, eyes and clothing.
<b>Storage</b>	Keep out of the reach of children. Keep away from excessive heat or cold.  Keep at temperatures between 15 and 35°C.

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## 8. Exposure Controls / Personal Protection

### Occupational exposure limits

#### US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Trade Secret Black Pigment (CAS Proprietary)	TWA	3 mg/m <sup>3</sup>	Inhalable fraction.

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
Trade Secret Black Pigment (CAS Proprietary)	PEL	3.5 mg/m <sup>3</sup>

#### US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Trade Secret Black Pigment (CAS Proprietary)	TWA	0.1 mg/m <sup>3</sup>

#### US. AIHA Workplace Environmental Exposure Level (WEEL) Guides

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

#### US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A

Components	Type	Value
Trade Secret Black Pigment (CAS Proprietary)	TWA	3.5 mg/m <sup>3</sup>

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

### Personal protective equipment

<b>General</b>	Use personal protective equipment to minimize exposure to skin and eye.
<b>Eye / face protection</b>	Wear safety glasses with side shields (or goggles).
<b>Skin protection</b>	Wear appropriate chemical resistant clothing.

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**9. Physical & Chemical Properties**

<b>Appearance</b>	Not available.
<b>Physical state</b>	Liquid.
<b>Form</b>	Not available.
<b>Color</b>	Grey
<b>Odor</b>	Not available.
<b>pH</b>	8 - 10 9
<b>Vapor pressure</b>	Not available.
<b>Boiling point</b>	Not available.
<b>Melting point/Freezing point</b>	Not available.
<b>Solubility (water)</b>	Not available.
<b>Specific gravity</b>	1 - 1.1
<b>Flash point</b>	> 200.00 °F (> 93.33 °C) Pensky-Martens Closed Cup
<b>VOC</b>	< 141 g/l
<b>Other information</b>	For other VOC regulatory data/information see Section 15.

**10. Chemical Stability & Reactivity Information**

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

**11. Toxicological Information**

**Toxicological data**

<b>Components</b>	<b>Species</b>	<b>Test Results</b>
Diethylene glycol (CAS 111-46-6)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	11890 mg/kg
<i>Oral</i>		
LD50	Cat	3300 mg/kg
	Dog	9000 mg/kg
	Guinea pig	8700 mg/kg
		14 g/kg
	Mouse	23700 mg/kg
		13.3 g/kg
	Rabbit	26.9 g/kg
	Rat	12565 mg/kg
		15.6 g/kg
<i>Other</i>		
LD50	Mouse	22500 mg/kg
		9.6 g/kg
	Rabbit	2000 mg/kg

Components	Species	Test Results
	Rat	7700 mg/kg 7.7 g/kg
Trade Secret Black Pigment (CAS Proprietary)		
<b>Acute</b>		
<i>Oral</i>		
LD50	Rat	> 8000 mg/kg
<b>Carcinogenicity</b>	Carbon black is classified as a carcinogen by the IARC (possibly carcinogenic to humans, Group 2B) and by the State of California under Proposition 65. In their evaluations of carbon black, both organizations indicate that exposure to carbon black, per se, does not occur when it remains bound within a product matrix, specifically, rubber, ink, or paint.	
<b>ACGIH Carcinogens</b>		
CARBON BLACK, INHALABLE FRACTION (CAS Proprietary) A3 Confirmed animal carcinogen with unknown relevance to humans.		
<b>IARC Monographs. Overall Evaluation of Carcinogenicity</b>		
Trade Secret Black Pigment (CAS Proprietary)		2B Possibly carcinogenic to humans.
<b>Serious eye damage/eye irritation</b>	Not available.	
<b>Further information</b>	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

<b>Aquatic toxicity</b>	No information available.		
<b>Ecotoxicological data</b>			
Product	Species	Test Results	
C1Q36Series (CAS Mixture)			
<b>Aquatic</b>			
Fish	LC50	Fathead minnow ( <i>Pimephales promelas</i> )	> 750 mg/l, 96 Hours
Components	Species	Test Results	
Diethylene glycol (CAS 111-46-6)			
<b>Aquatic</b>			
Fish	LC50	Western mosquitofish ( <i>Gambusia affinis</i> )	> 32000 mg/l, 96 hours
<b>Ecotoxicity</b>	No information available.		
<b>Persistence and degradability</b>	Not available.		
<b>Bioaccumulation / Accumulation</b>			

## 13. Disposal Considerations

<b>Disposal instructions</b>	Dispose of in compliance with federal, state, and local regulations.
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## 14. Transport Information

<b>DOT</b>	
Not regulated as dangerous goods.	
<b>IATA</b>	
Not regulated as dangerous goods.	
<b>IMDG</b>	
Not regulated as dangerous goods.	
<b>RID</b>	
Not regulated as dangerous goods.	
<b>Further information</b>	Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.

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## 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) = < 1088 g/L (U.S. requirement, not for emissions)

VOC data based on formulation (Organic compounds minus solids)

### State regulations

#### US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

CARBON BLACK (AIRBORNE, UNBOUND PARTICLES OF RESPIRABLE SIZE [ $\leq$  10 MICROMETERS]) (CAS Proprietary) Listed: February 21, 2003 Carcinogenic.

#### US - New Jersey RTK - Substances: Listed substance

Trade Secret Black Pigment (CAS Proprietary) Listed.

#### US. Massachusetts RTK - Substance List

Trade Secret Black Pigment (CAS Proprietary)

#### US. Pennsylvania RTK - Hazardous Substances

Diethylene glycol (CAS 111-46-6) Listed.

Trade Secret Black Pigment (CAS Proprietary) Listed.

#### US. Rhode Island RTK

Diethylene glycol (CAS 111-46-6)

Trade Secret Black Pigment (CAS Proprietary)

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## 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**

18-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**

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**Explanation of abbreviations**

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