



# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

<b>Identification of the preparation</b>	CE032Series
<b>Product use</b>	Inkjet printing. For use only in inkjet printing
<b>Version #</b>	01
<b>Revision date</b>	10-Nov-2010
<b>CAS #</b>	Mixture
<b>Company identification</b>	Hewlett-Packard Company 3000 Hanover Street Palo Alto, CA 94304-1185 United States Telephone 650-857-1501  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

## 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.
<b>Skin contact</b>	<i>1-(2-hydroxyethyl)-2-pyrrolidone</i> Contact with skin may result in irritation. <i>Cyclo Amide</i> Contact with skin may result in irritation. <i>Trade Secret yellow colorant</i> Contact with skin may result in irritation.
<b>Eye contact</b>	<i>1-(2-hydroxyethyl)-2-pyrrolidone</i> Contact with eyes may result in irritation. <i>Cyclo Amide</i> Contact with eyes may result in irritation. <i>Trade Secret yellow colorant</i> Contact with eyes may result in irritation.
<b>Inhalation</b>	<i>1-(2-hydroxyethyl)-2-pyrrolidone</i> Inhalation may result in respiratory irritation. <i>Cyclo Amide</i> Inhalation may result in respiratory irritation.
<b>Ingestion</b>	<i>1-(2-hydroxyethyl)-2-pyrrolidone</i> Ingestion may result in nausea, vomiting and diarrhea. <i>Cyclo Amide</i> Swallowing large amounts may cause digestive discomfort. <i>Diethylene glycol</i> Harmful if swallowed. May cause kidney and liver damage. May depress the central nervous system.

## 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.

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## 3. Composition / Information on Ingredients

Components	CAS #	Percent
Cyclo Amide	Proprietary	< 10
Diethylene glycol	111-46-6	< 5
Trade Secret yellow colorant	Proprietary	< 5
1-(2-hydroxyethyl)-2-pyrrolidone	3445-11-2	< 2.5
Megaface F-444	N/A	< 0.1
Water	7732-18-5	>70

### 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).

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## 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. 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

### 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<sub>2</sub>, water spray or regular foam.

#### Unsuitable extinguishing media

None known.

### Specific methods

None established.

### Hazardous combustion products

Refer to section 10.

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## 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 containment

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.

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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

#### U.S. - WEEL

Components	Type	Value
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Diethylene glycol (111-46-6)	TWA	10.0000 mg/m3
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**Exposure guidelines** Exposure limits have not been established for this product.

### Personal protective equipment

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

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

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## 9. Physical & Chemical Properties

<b>Appearance</b>	Not available.
<b>Color</b>	Yellow
<b>Odor</b>	Not available.
<b>Odor threshold</b>	Not available.
<b>Physical state</b>	Liquid
<b>Form</b>	Not available.
<b>pH</b>	8 - 10
<b>Melting point</b>	Not available.
<b>Freezing point</b>	Not available.
<b>Boiling point</b>	Not available.
<b>Flash point</b>	> 200 °F (> 93.3 °C) Pensky-Martens Closed Cup
<b>Evaporation rate</b>	Not available.
<b>Flammability limits in air, upper, % by volume</b>	Not available.
<b>Flammability limits in air, lower, % by volume</b>	Not available.
<b>Vapor pressure</b>	Not available.
<b>Vapor density</b>	Not available.
<b>Specific gravity</b>	1 - 1.1
<b>Relative density</b>	Not available.
<b>Solubility (water)</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>VOC</b>	< 182 g/l
<b>Other information</b>	VOC content (less water, less exempt compounds) = < 946 g/L (U.S. requirement, not for emissions)

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## 10. Chemical Stability & Reactivity Information

<b>Chemical stability</b>	Stable under recommended storage conditions.
<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.



**NFPA ratings**

Health: 1  
Flammability: 1  
Instability: 0

**Disclaimer**

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**Issue date**

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**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