



# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

**Identification of the preparation** CH118Series

**Synonym(s)** HP Designjet 788 Yellow Ink

**Product use** Inkjet printing.

**Version #** 04

**Revision date** 15-Oct-2010

**CAS #** Mixture

**Company identification** Hewlett-Packard Company  
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Palo Alto, CA 94304-1185  
United States  
Telephone 650-857-1501

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## 2. Hazards Identification

**Emergency overview** Causes severe irritation of eyes, skin and mucous membranes.  
After contact with skin, wash immediately with plenty of water.  
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Acute health effects**

**Skin contact** Avoid contact with skin.  
Harmful in contact with skin. Contact causes skin irritation. May cause sensitization by skin contact.  
*Nickel, 5,5'-azobis-2,4,6(1H,3H,5H)-pyrimidinetrione Complexes*  
May cause sensitization by skin contact.

**Eye contact** Irritating to eyes.

**Inhalation** Avoid breathing vapors or mists of this product. Inhalation of vapors or mists of the product may be irritating to the respiratory system.

**Ingestion** Ingestion is not expected to be a primary route of exposure for this product under normal use conditions. Harmful if swallowed.

**Potential health effects**

**Routes of exposure** Potential routes of exposure to this product are skin and eye contact, ingestion, and inhalation.

**Carcinogenicity** Contains Nickel. May cause cancer.

## 3. Composition / Information on Ingredients

Components	CAS #	Percent
2-phenoxyethyl Acrylate	48145-04-6	10 - 25
multifunctional acrylate	Proprietary	10 - 25
N-vinylcaprolactam	2235-00-9	10 - 25
Tridecyl Acrylate Ester	3076-04-8	10 - 25
Diphenyl (2,4,6-trimethylbenzoyl) phosphineoxide	75980-60-8	2.5 - 5
Benzophenone	119-61-9	1 - 2.5

Epoxy Acrylate Oligomer	Proprietary	1 - 2.5
1-Butanone, 2-(dimethylamino)-1-[4-(4-morpholinyl)phenyl]-2-(phenylmethyl)-	119313-12-1	< 1
Nickel, 5,5'-azobis-2,4,6(1H,3H,5H)-pyrimidinetrione Complexes	68511-62-6	< 2

#### 4. First Aid Measures

##### First aid procedures

<b>Eye contact</b>	In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention immediately.
<b>Skin contact</b>	In case of contact, immediately remove contaminated clothing and flush skin with copious amounts of water. Wash clothing separately before reuse. Get medical attention.
<b>Inhalation</b>	Move person to fresh air immediately. If the affected person is not breathing, apply artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
<b>Ingestion</b>	Rinse mouth out with water. If swallowed, do NOT induce vomiting. Give small amounts of water to drink. Never give anything by mouth to an unconscious person. Get medical attention immediately.

#### 5. Fire Fighting Measures

##### Extinguishing media

<b>Suitable extinguishing media</b>	Use any media suitable for the surrounding fires.
<b>Unsuitable extinguishing media</b>	None known.

##### Protection of firefighters

<b>Protective equipment and precautions for firefighters</b>	Move containers from fire area if you can do it without risk. Avoid runoff into storm sewers and ditches which lead to waterways.
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**Special protective equipment for fire-fighters** Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.

**Hazardous combustion products** Combustion will produce carbon dioxide, carbon monoxide, and nitrogen oxides. May include oxides of phosphates.

#### 6. Accidental Release Measures

<b>Personal precautions</b>	Avoid contact with skin. Avoid inhalation of vapors or mists. Do not touch or walk through spilled material. Ensure adequate ventilation. Use personal protective equipment to minimize exposure to skin and eye.
<b>Environmental precautions</b>	Do not flush into surface water or sanitary sewer system.
<b>Methods for cleaning up</b>	Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.
<b>Other information</b>	Soak up with inert absorbent material.

#### 7. Handling and Storage

<b>Handling</b>	Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mists of this product. Wear personal protective equipment.
<b>Storage</b>	Keep containers tightly closed in a cool, well-ventilated place. Keep out of the reach of children.

#### 8. Exposure Controls / Personal Protection

##### Occupational exposure limits

###### U.S. - OSHA

Components	Type	Value	Form
Nickel, 5,5'-azobis-2,4,6(1H,3H,5H)-pyrimidinetrione Complexes (68511-62-6)	PEL	1.0000 mg/m3	29 CFR 1910.1000 (Subpart Z)

Components	Type	Value	Form
	TWA	1.0000 mg/m3	29 CFR 1910.1000 (Subpart Z)

U.S. - WEEL			
Components	Type	Value	
Benzophenone (119-61-9)	TWA	0.5000 mg/m3	

**Engineering controls** Attempts should be made to eliminate all contact with skin and eyes, and to limit inhalation exposure. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

**Personal protective equipment**

**Eye / face protection** Wear safety glasses; chemical goggles (if splashing is possible).  
**Skin protection** Wear appropriate chemical resistant clothing.  
**General hygiene considerations** Do not get this material in contact with skin. Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product.  
Launder contaminated clothing before reuse.

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**9. Physical & Chemical Properties**

**Appearance** Not available.  
**Color** Yellow  
**Odor** Not available.  
**Odor threshold** Not available.  
**Physical state** Liquid  
**Form** Not available.  
**pH** Not available.  
**Melting point** Not available.  
**Freezing point** Not available.  
**Boiling point** 440.6 °F (227 °C)  
**Flash point** > 199.4 °F (> 93.3 °C) Closed Cup  
**Evaporation rate** Not available.  
**Flammability limits in air, upper, % by volume** Not available.  
**Flammability limits in air, lower, % by volume** Not available.  
**Vapor pressure** Not available.  
**Vapor density** Not available.  
**Specific gravity** 1.01  
**Relative density** Not available.  
**Solubility (water)** Not available.  
**Auto-ignition temperature** Not available.  
**Decomposition temperature** Not available.  
**VOC** < 95 g/L

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**10. Chemical Stability & Reactivity Information**

**Chemical stability** Stable at normal conditions.

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**11. Toxicological Information**

**Serious eye damage/eye irritation** Not available.

<b>Skin sensitization</b>	Not available.
<b>Mutagenicity</b>	None known.
<b>Teratogenicity</b>	None known.
<b>Further information</b>	Complete toxicity data are not available for this specific formulation

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## 12. Ecological Information

<b>Aquatic toxicity</b>	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
<b>Persistence and degradability</b>	Not available.

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## 13. Disposal Considerations

<b>Disposal instructions</b>	Do not allow this material to drain into sewers/water supplies. Dispose of in compliance with federal, state, and local regulations.
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## 14. Transport Information

<b>Further information</b>	not regulated
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### DOT

Not regulated as dangerous goods.

### IATA

Not regulated as dangerous goods.

### IMDG

Not regulated as dangerous goods.

### RID

Not regulated as dangerous goods.

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## 15. Regulatory Information

<b>US federal regulations</b>	This product is listed on the U.S. EPA TSCA Inventory. US TSCA 12(b): Contains 2,4-diethyl-9h-thioxanthen-9-one (CASRN 82799-44-8) and 4-methoxyphenol (CASRN 150-76-5), subject to export notification requirements. US TSCA 4(a): Contains 4-methoxyphenol (CASRN 150-76-5), subject of a test rule at 40 CFR Section 799.5115. TSCA Section 5(a)(2) Significant New Use Rules: This product contains 2,4-diethyl-9h-thioxanthen-9-one (CASRN 82799-44-8) which is subject to a Significant New Use Rule at 40 CFR Section 721.9664. TSCA 8(a) PAIR: 4-Methoxyphenol SARA 302/304/311/312 hazardous chemicals: Tridecyl acrylate; Benzophenone
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### CERCLA (Superfund) reportable quantity

None

### Occupational Safety and Health Administration (OSHA)

<b>29 CFR 1910.1200 hazardous chemical</b>	No
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### Superfund Amendments and Reauthorization Act of 1986 (SARA)

<b>Hazard categories</b>	Immediate Hazard - No Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No
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<b>Section 302 extremely hazardous substance</b>	No
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<b>Section 311 hazardous chemical</b>	Yes
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<b>Regulatory information</b>	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/NDL), Australia, Japan, Philippines, South Korea, New Zealand, and China.
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## 16. Other Information

<b>HMIS® ratings</b>	Health: 2 Flammability: 1 Physical hazard: 2
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**NFPA ratings**

Health: 2  
Flammability: 1  
Instability: 2

**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**

15-Oct-2010

**Manufacturer information**

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Minnetonka, MN 55343 US  
Product Information 1-800-925-0563

**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