



# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

**Material name** CH220A  
**Use of the preparation** Inkjet printing.  
**Version #** 01  
**Revision date** 03-09-2009  
**CAS #** Mixture  
**Company identification** Hewlett-Packard Company  
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**Date prepared** Mar 09, 2009  
**MSDS number** 345876

## 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.

**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.

## 3. Composition / Information on Ingredients

Component/substance	CAS number	% by weight
Tridecyl Acrylate Ester	3076-04-8	10-25
Diphenyl (2,4,6-trimethylbenzoyl) phosphineoxide	75980-60-8	2.5-5
Multi-Functional Acrylate Ester	60506-81-2	2.5-5
1-Butanone,	119313-12-1	< 1
2-(dimethylamino)-1-[4-(4-morpholinyl)phenyl]-2-(phenyl)		
Ethyl 4-(Dimethylamino) Benzoate	10287-53-3	1-2.5
Neopentylglycol Propxylate	84170-74-1	1-2.5
Polyethylene Glycol 400	26570-48-9	1-2.5



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## 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.

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## 5. Fire Fighting Measures

<b>Flash point and method</b>	212 °F (100 °C) Closed Cup;
<b>Hazardous combustion products</b>	Combustion will produce carbon dioxide, carbon monoxide, and nitrogen oxides. May include oxides of phosphates.
<b>Extinguishing media</b>	
<b>Suitable extinguishing media</b>	Use any media suitable for the surrounding fires.
<b>Unsuitable extinguishing media</b>	None known.
<b>Protection of firefighters</b>	
<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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## 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.

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## 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.

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## 8. Exposure Controls / Personal Protection

### Personal protective equipment

<b>Eye / face protection</b>	Wear safety glasses; chemical goggles (if splashing is possible).
<b>Skin protection</b>	Wear appropriate chemical resistant clothing.
<b>General hygiene considerations</b>	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

Color	Light Cyan
Odor threshold	Not available.
Physical state	Liquid.
pH	Not available.
Melting point	Not available.
Freezing point	Not available.
Boiling point	440.6 °F (227 °C)
Flash point	212 °F (100 °C) Closed Cup;
Evaporation rate	Not available.
Flammability	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.
Partition coefficient (n-octanol/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

Carcinogenicity	Not a known carcinogen.
Mutagenicity	None known.
Teratogenicity	None known.

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## 12. Ecological Information

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

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## 13. Disposal Considerations

Disposal instructions	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

### IATA

Not regulated as dangerous goods.

General not regulated



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## 15. Regulatory Information

### US federal regulations

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.

### CERCLA (Superfund) reportable quantity

None

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### Hazard categories

Immediate Hazard - No  
Delayed Hazard - Yes  
Fire Hazard - No  
Pressure Hazard - No  
Reactivity Hazard - No

#### Section 302 extremely hazardous substance

No

#### Section 311 hazardous chemical

Yes

### 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.

## 16. Other Information

### HMIS® ratings

Health: 2  
Flammability: 1  
Physical hazard: 2

### NFPA ratings

Health: 2  
Flammability: 1  
Instability: 2

### Issue date

Mar 9 2009 12:56PM

### Revision

1

### Replaces sheet dated

Mar 3 2009 10:19AM

### 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.

### MSDS sections updated

15. Regulatory Information: US federal regulations



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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

## Manufacturer information

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