



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name CH252Series
Version # 03
Issue date 03-Jan-2013
Revision date 01-Oct-2013
Product use Inkjet printing
CAS # Mixture
Synonym(s) HP Designjet 788 Cyan Ink
Company identification Hewlett-Packard Company
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United States
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2. Hazards Identification

Emergency overview Irritating to eyes and skin.
May cause sensitization by skin contact.
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Potential health effects

Eyes Irritating to eyes. Avoid contact with eyes.

Skin Contact causes skin irritation. Avoid contact with the skin.

Inhalation Do not breathe vapour. Inhalation of vapors or mists of the product may be irritating to the respiratory system.

Ingestion May be harmful if swallowed.

Other hazards Benzophenone is classified by the IARC as a Group 2B carcinogen (the substance is possibly carcinogenic to humans).

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

Contains isocyanates. May produce an allergic reaction.

Proprietary initiator - In animal testing, risk of impaired fertility was shown only after repeated ingestion of very high doses of this substance.

3. Composition / Information on Ingredients

Hazardous components	CAS #	Percent
phenoxy ethyl acrylate	48145-04-6	<40
N-vinylcaprolactam	2235-00-9	<25
monoalkyl or monoaryl or monoalkylaryl esters of acrylic acid	3076-04-8	<15
Proprietary initiator	Proprietary	<5
benzophenone	119-61-9	<2.5

Hazardous components	CAS #	Percent
Propoxylated Neopentyl Glycol Diacrylate	84170-74-1	<2.5
Non-hazardous components	CAS #	Percent
Acrylate Ester Resin	26570-48-9	<2.5
Aliphatic Urethane Acrylate	Proprietary	<2.5
2-benzyl-2-dimethylamino-4-morpholinobutyrophenone	119313-12-1	<1

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. If irritation persists get medical attention.
Inhalation	Move to fresh air. If symptoms persist, get medical attention.
Ingestion	If the material is swallowed, get immediate medical attention or advice -- Do not induce vomiting. Never give anything by mouth to an unconscious person.

5. Fire Fighting Measures

Flammable properties	None known.
Extinguishing media	
Suitable extinguishing media	Dry powder. Carbon dioxide (CO2). Water may be ineffective.
Unsuitable extinguishing media	Water.
Protection of firefighters	
Protective equipment and precautions for firefighters	Avoid runoff into storm sewers and ditches which lead to waterways.
Fire fighting equipment/instructions	Not available.

6. Accidental Release Measures

Personal precautions	Wear appropriate personal protective equipment. Do not touch or walk through spilled material.
Environmental precautions	Do not let product enter drains. Do not flush into surface water or sanitary sewer system. See also section 13 Disposal considerations.
Methods for cleaning up	Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.
Other information	Soak up with inert absorbent material. Dispose of in compliance with federal, state, and local regulations.

7. Handling and Storage

Handling	Avoid contact with skin, eyes and clothing.
Storage	Keep away from excessive heat or cold. Do not store in direct sunlight. Do not handle or store near an open flame, heat or other sources of ignition.

8. Exposure Controls / Personal Protection

Occupational exposure limits

US. AIHA Workplace Environmental Exposure Level (WEEL) Guides

Components	Type	Value
benzophenone (CAS 119-61-9)	TWA	0.5 mg/m3

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

Personal protective equipment

Eye / face protection	Wear safety glasses; chemical goggles (if splashing is possible). Eye wash fountain and emergency showers are recommended.
Skin protection	Wear appropriate chemical resistant gloves. Wear appropriate chemical resistant clothing.
Respiratory protection	Provide adequate ventilation. In case of insufficient ventilation wear suitable respiratory equipment.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice. Do not get this material in your eyes, on your skin, or on your clothing. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product. Launder contaminated clothing before reuse. Keep away from food and drink.

9. Physical & Chemical Properties

Appearance	Not available.
Physical state	Liquid.
Form	Liquid.
Color	Cyan
Odor	Characteristic.
pH	Not available.
Vapor pressure	Not available.
Boiling point	Not available.
Melting point/Freezing point	Not available.
Solubility (water)	Not available.
Specific gravity	Not available.
Flash point	> 230.00 °F (> 110.00 °C) Closed Cup
VOC	< 95 g/L
Other information	For other VOC regulatory data/information see Section 15.
Other data	
Chemical family	Acrylate/Polymer/Pigment Blend

10. Chemical Stability & Reactivity Information

Chemical stability	Stable under normal storage conditions.
Conditions to avoid	Exposure to sunlight.
Incompatible materials	Incompatible with strong bases and oxidizing agents. alkaline metals
Hazardous decomposition products	Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.
Possibility of hazardous reactions	Hazardous polymerization can occur with decreased inhibitor content.

11. Toxicological Information

Toxicological data

Components	Species	Test Results
benzophenone (CAS 119-61-9)		
Acute		
<i>Oral</i>		
LD50	Mouse	2895 mg/kg
<i>Other</i>		
LD50	Mouse	727 mg/kg
Sensitization	May cause sensitization by skin contact.	
Acute effects	Causes skin irritation.	
Carcinogenicity	Benzophenone is classified by the IARC as a Group 2B carcinogen (the substance is possibly carcinogenic to humans).	

IARC Monographs. Overall Evaluation of Carcinogenicity

benzophenone (CAS 119-61-9)

2B Possibly carcinogenic to humans.

Serious eye damage/eye irritation Causes eye irritation.**Further information** Complete toxicity data are not available for this specific formulation**12. Ecological Information****Aquatic toxicity** Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.**Ecotoxicological data****Components****Species****Test Results**

benzophenone (CAS 119-61-9)

Aquatic

Fish

LC50

Fathead minnow (*Pimephales promelas*)

9.64 - 12.31 mg/l, 96 hours

Ecotoxicity No data available.**Persistence and degradability** Not available.**Bioaccumulation / Accumulation****13. Disposal Considerations****Disposal instructions**

Do not dispose of together with general office waste.

Do not allow this material to drain into sewers/water supplies.

Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

Ensure collection and disposal with an appropriately licensed waste contractor.

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.

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: Benzophenone, subject to export notification requirements.

US TSCA 4(a): Contains Benzophenone, 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 which is subject to a Significant New Use Rule at 40 CFR Section 721.9664.

TSCA 8(a) PAIR: 4-Methoxyphenol; heptane

SARA 302/304/311/312 hazardous chemicals: Benzophenone: tridecyl acrylate

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)

benzophenone (CAS 119-61-9)

0.1 % One-Time Export Notification only.

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
SARA 302 Extremely hazardous substance	No
SARA 311/312 Hazardous chemical	No
Other information	Exposure Limits (See Section 8): Executive regulation of Minister of Labour and Social Policy dated Nov. 29, 2002 concerning the highest exposure limits and volume of factors harmful for health and environment at work (Official Journal of Laws no 217/2002 item 1833 with further amendments). VOC content (less water, less exempt compounds) = < 95 g/L (U.S. requirement, not for emissions) US EPA Method 24
Other regulations	The components of this product are reported in the following inventories: USA, European Union, Canada, New Zealand, Japan, Philippines, China, Australia, Korea.
State regulations	
US - California Proposition 65 - CRT: Listed date/Carcinogenic substance	
BENZOPHENONE (CAS 119-61-9)	Listed: June 22, 2012 Carcinogenic.
US. Massachusetts RTK - Substance List	
Not regulated.	
US. Pennsylvania RTK - Hazardous Substances	
Not regulated.	
US. Rhode Island RTK	
Not regulated.	

16. Other Information

HMIS® ratings	Health: 2 Flammability: 1 Physical hazard: 2
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.
Other information	This MSDS was prepared in accordance with USA OSHA Hazard Communications regulation (29 CFR 1910.1200).
Issue date	03-Jan-2013
This data sheet contains changes from the previous version in section(s):	Composition / Information on Ingredients: Ingredients
Manufacturer information	Hewlett-Packard Company 3000 Hanover Street Palo Alto, California 94304-1112 US Product Information 1-800-925-0563

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