



# SAFETY DATA SHEET

## 1. Product and company identification

**Product name** CH116Series  
**Synonyms** HP Designjet 788 Cyan Ink  
**Recommended use and Limitations on use**  
**Recommended use** Inkjet printing  
**Issue date** 28-Aug-2013  
**Revision date** 09-Aug-2015  
**Version #** 06  
**Company identification** HP Taiwan Information Technology Ltd.  
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## 2. Hazards identification

### Hazard classification

<b>Physical hazards</b>	Not classified.	
<b>Health hazards</b>	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2A
	Skin sensitizer	Category 1
	Toxic to reproduction (fertility)	Category 2
	Specific target organ toxicity - repeated exposure	Category 1 (liver, respiratory system)
<b>Environmental hazards</b>	Chronic hazards to the aquatic environment	Category 2

### Label elements

#### Symbols



#### Signal word

Danger

#### Hazard statement

Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. Suspected of damaging fertility. Causes damage to organs (liver, respiratory system) through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects.

### Precautionary statement

#### Prevention

P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P260 - Do not breathe dust/fume/gas/mist/vapors/spray.  
P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
P270 - Do not eat, drink or smoke when using this product.  
P264 - Wash hands thoroughly after handling.  
P273 - Avoid release to the environment.

**Response** P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337 + P313 - If eye irritation persists: Get medical advice/attention.  
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.  
P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention.  
P308 + P313 - IF exposed or concerned: Get medical attention/advice.  
P391 - Collect spillage.  
P362 - Take off contaminated clothing and wash before reuse.

**Storage** P405 - Store locked up.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

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

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

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

Substance or mixture	Mixture	
Components	CAS #	Percent
2-Phenoxy-ethyl acrylate	48145-04-6	<40
Carboxylic Acids, Esters	3076-04-8	<25
N-vinylcaprolactam	2235-00-9	<25
Aliphatic Urethane Acrylate	Proprietary	<10
Multi-Functional Acrylate Ester	Proprietary	<5
Proprietary initiator	Proprietary*	<5
Alkyl Acrylate Ester #1	Proprietary	<2.5
Alkyl Acrylate Ester #2	Proprietary*	<2.5
Benzophenone	119-61-9	<2.5
2-benzyl-2-dimethylamino-4-morpholinobutyrophenone	119313-12-1	<1

### 4. First aid measures

#### First aid measures for different exposure routes

**Inhalation** Move to fresh air. If symptoms persist, get medical attention.

**Skin contact** Wash affected areas thoroughly with mild soap and water. If irritation persists get medical attention.

**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.

**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.

**Most important symptoms and effects** Not available.

**Personal protection for first-aid responders** Not available.

**Notes to physician** Not available.

### 5. Fire-fighting measures

**Flash point** > 230.0 °F (> 110.0 °C) Closed Cup

**Extinguishing media** Dry powder. Carbon dioxide (CO2). Water may be ineffective.

**Extinguishing media to avoid** Water may be ineffective. Do not use a solid water stream as it may scatter and spread fire.

**Specific hazards during fire fighting** None.

**Special fire fighting procedures** Avoid runoff into storm sewers and ditches which lead to waterways.

**Protection of fire-fighters** None.

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## 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.

**Spill cleanup methods** Not available.

**Other information** Dispose of in compliance with federal, state, and local regulations.

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## 7. Handling and storage

### Handling

**Precautions** Not available.

**Safe handling advice** Avoid contact with skin, eyes and clothing.

### Storage

**Technical measures** Opaque, high density polyethylene (HDPE) containers are recommended for shipping and 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.

**Suitable storage conditions** Not available.

**Incompatible materials** Not available.

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## 8. Exposure controls/personal protection

### Exposure limits

No exposure limits noted for ingredient(s).

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**Engineering measures** Not available.

### Personal protective equipment

**Respiratory protection** Provide adequate ventilation. In case of insufficient ventilation wear suitable respiratory equipment.

**Hand protection** Wear appropriate chemical resistant gloves.

**Eye protection** Wear safety glasses; chemical goggles (if splashing is possible). Eye wash fountain and emergency showers are recommended.

**Skin and body protection** Wear appropriate chemical resistant clothing.

**Hygiene measures** 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.

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

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## 9. Physical and chemical properties

### Appearance

**Physical state** Liquid.

**Color** Cyan

**Odor** Characteristic.

**pH** Not available.

**Melting point/freezing point** Not available.

**Boiling point, initial boiling point, and boiling range** Not available.

**Flash point** > 230.0 °F (> 110.0 °C) Closed Cup

**Flammability (solid, gas)** Not available.

**Explosive limit - lower (%)** Not available.

**Explosive limit - upper (%)** Not available.

**Vapor pressure** Not available.

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<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Other data</b>	
<b>Chemical family</b>	Acrylate/Polymer/Pigment Blend
<b>VOC (Weight %)</b>	< 95 g/L

## 10. Stability and reactivity

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

## 11. Toxicological information

<b>Acute toxicity</b>	Based on available data, the classification criteria are not met.
<b>Skin corrosion/irritation</b>	Causes skin irritation.
<b>Serious eye damage/eye irritation</b>	Causes serious eye irritation.
<b>Respiratory sensitizer</b>	Based on available data, the classification criteria are not met.
<b>Skin sensitizer</b>	May cause sensitization by skin contact.
<b>Germ cell mutagenicity</b>	Based on available data, the classification criteria are not met.
<b>Carcinogenicity</b>	Based on available data, the classification criteria are not met.
<b>IARC Monographs. Overall Evaluation of Carcinogenicity</b>	
Benzophenone (CAS 119-61-9)	2B Possibly carcinogenic to humans.
<b>Toxic to reproduction</b>	Suspected of damaging fertility.
<b>Specific target organ toxicity - single exposure</b>	Based on available data, the classification criteria are not met.
<b>Specific target organ toxicity - repeated exposure</b>	Causes damage to organs (liver, respiratory system) through prolonged or repeated exposure.
<b>Aspiration hazard</b>	Based on available data, the classification criteria are not met.
<b>Other information</b>	Complete toxicity data are not available for this specific formulation

Components	Species	Test Results
Benzophenone (CAS 119-61-9)		
<b>Acute</b>		
<i>Oral</i>		
LD50	Mouse	2895 mg/kg
<i>Other</i>		
LD50	Mouse	727 mg/kg

## 12. Ecological information

<b>Aquatic toxicity</b>	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. This product has not been tested for ecological effects.		
<b>Ecotoxicological data</b>			
Components	Species	Test Results	
Benzophenone (CAS 119-61-9)			
<b>Aquatic</b>			
Fish	LC50	Fathead minnow ( <i>Pimephales promelas</i> )	9.64 - 12.31 mg/l, 96 hours
<b>Persistence and degradability</b>	Not available.		
<b>Bioaccumulation</b>	Not available.		

**Mobility in soil** Not available.  
**Other hazardous effects** Not available.

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### 13. Disposal considerations

**Local disposal regulations** 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.

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### 14. Transport information

#### DOT

Not regulated as dangerous goods.

**DOT supplemental information** DOT Classification only applies to shipments within the US and Puerto Rico.

#### IATA

**UN number** UN3082  
**UN proper shipping name** Environmentally Hazardous Substance, Liquid, N.O.S. (Acrylates)  
**Transport hazard class(es)**  
**Class** 9  
**Subsidiary risk** -  
**Packing group** III  
**Environmental hazards** Yes  
**Special precautions for user** Not available.

#### IATA supplemental information

When shipping ≤ 5L inner packaging, Special Provision A197 may apply.

#### IMDG

**UN number** UN3082  
**UN proper shipping name** Environmentally Hazardous Substance, Liquid, N.O.S. (Acrylates), MARINE POLLUTANT  
**Transport hazard class(es)**  
**Class** 9  
**Subsidiary risk** -  
**Packing group** III  
**Environmental hazards**  
**Marine pollutant** Yes  
**EmS** F-A, S-F  
**Special precautions for user** Not available.

#### IMDG supplemental information

When shipping ≤ 5L containers, IMDG 2.10.2.7 may apply.

#### ADR

##### Basic shipping requirements:

**Proper shipping name** Environmentally Hazardous Substance, Liquid, N.O.S. (Acrylates)  
**Hazard class** 9  
**UN number** 3082  
**Packing group** III  
**Marine pollutant** Yes

#### ADR supplemental information

When shipping ≤ 5L containers, ADR 375 may apply.

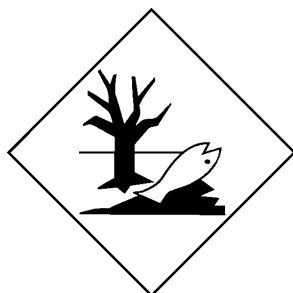
#### IATA; IMDG





**ADR**

**Marine pollutant**



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## 15. Regulatory information

### Applicable regulations

#### Methods and Facilities Standards for the Storage, Clearance and Disposal of Industrial Waste

Not listed.

#### GHS Classification List: GHS implementation phase 1 and 2 (CLA No. 0960145703, 0970146313, and 0990146707)

Multi-Functional Acrylate Ester (CAS Proprietary)

Proprietary initiator (CAS Proprietary\*)

### Regulatory information

The components of this product are reported in the following inventories: USA, European Union, Canada, New Zealand, Japan, Philippines, China, Australia, Korea.

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## 16. Other information

### References

Not available.

### Issued by

Not available.

### Prepared by

HP

### Disclaimer

This Safety Data Sheet document is provided without charge to customers of HP. Data is the most current known to HP 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

28-Aug-2013

### Revision date

09-Aug-2015

### Version #

06

### This data sheet contains changes from the previous version in section(s):

1. Product and Company Identification: Alternate Trade Names  
Other information: Disclaimer

### Manufacturer information

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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