



# SAFETY DATA SHEET

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Identification of the substance/preparation** CH116Series

**Use of the substance/preparation** Inkjet printing

**Version #** 01

**Issue date** 19-Oct-2016

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

**Chemical family** Acrylate/Polymer/Pigment Blend

**Manufacturer information** HP Inc.

**Company identification** HP Computing and Printing Middle East FZ-LLC,  
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## 2. HAZARDS IDENTIFICATION

### 2.1 GHS classification of substance or mixture, and national or regional information

|                              |  |             |
|------------------------------|--|-------------|
| <b>Physical hazards</b>      | Not classified.  |             |
| <b>Health hazards</b>        | Skin corrosion/irritation                              | Category 2  |
|                              | Serious eye damage/eye irritation                      | Category 2A |
|                              | Sensitization, skin                                    | Category 1  |
|                              | Reproductive toxicity                                  | Category 2  |
|                              | Specific target organ toxicity, repeated exposure      | Category 1  |
| <b>Environmental hazards</b> | Hazardous to the aquatic environment, long-term hazard | Category 2  |

### Label elements



**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.

|                 |   |
|-----------------|---|
| <b>Response</b> | P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>P337 + P313 - If eye irritation persists: Get medical advice/attention.<br>P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.<br>P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention.<br>P308 + P313 - IF exposed or concerned: Get medical attention/advice.<br>P391 - Collect spillage.<br>P362 - Take off contaminated clothing and wash before reuse. |
| <b>Storage</b>  | P405 - Store locked up.   |
| <b>Disposal</b> | Dispose of contents/container in accordance with local/regional/national/international regulations.   |

**Other hazards which do not result in classification** 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.

**Supplemental information** Contains Glycerolpropoxytriacylate. May produce an allergic reaction.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Components   | CAS #        | Percent |
|--|--------------|---------|
| Acrylic acid ester                                 | Proprietary  | <40     |
| Carboxylic Acids, Esters                           | Proprietary  | <25     |
| Vinylcaprolactam                                   | Proprietary  | <25     |
| Aliphatic urethane acrylate                        | Proprietary  | <10     |
| Acrylate ester                                     | Proprietary  | <5      |
| Proprietary initiator                              | Proprietary* | <5      |
| Alkyl Acrylate Ester                               | Proprietary  | <2.5    |
| Benzophenone                                       | 119-61-9     | <2.5    |
| Difunctional acrylic monomer                       | Proprietary  | <2.5    |
| 2-benzyl-2-dimethylamino-4-morpholinobutyrophenone | 119313-12-1  | <1      |
| Vinylester resin                                   |              | <1      |

### 4. FIRST AID MEASURES

|                     |   |
|---------------------|---|
| <b>Inhalation</b>   | Move to fresh air. If symptoms persist, get medical attention.  |
| <b>Skin contact</b> | Wash affected areas thoroughly with mild soap and water. If irritation persists get medical attention.  |
| <b>Eye contact</b>  | 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. |
| <b>Ingestion</b>    | 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

|  |  |
|--|--|
| <b>Suitable extinguishing media</b>                                  | Dry powder. Carbon dioxide (CO2). Water may be ineffective.                                  |
| <b>Extinguishing media which must not be used for safety reasons</b> | Water may be ineffective. Do not use a solid water stream as it may scatter and spread fire. |
| <b>Unusual fire &amp; explosion hazards</b>                          | None known.  |
| <b>Fire fighting equipment/instructions</b>                          | Avoid runoff into storm sewers and ditches which lead to waterways.                          |

### 6. ACCIDENTAL RELEASE MEASURES

|                                  |   |
|----------------------------------|---|
| <b>Personal precautions</b>      | Wear appropriate personal protective equipment. Do not touch or walk through spilled material.  |
| <b>Environmental precautions</b> | Do not let product enter drains. Do not flush into surface water or sanitary sewer system. See also section 13 Disposal considerations. |

|                                |  |
|--------------------------------|--|
| <b>Methods for cleaning up</b> | Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. |
| <b>Spill cleanup methods</b>   | Not available.   |
| <b>Other information</b>       | Soak up with inert absorbent material. Dispose of in compliance with federal, state, and local regulations.                          |

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## 7. HANDLING AND STORAGE

|                 |   |
|-----------------|---|
| <b>Handling</b> | Avoid contact with skin, eyes and clothing.   |
| <b>Storage</b>  | 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. Opaque, high density polyethylene (HDPE) containers are recommended for shipping and storage. |

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

|  |  |
|--|--|
| <b>Occupational exposure limits</b>      | No exposure limits noted for ingredient(s).  |
| <b>Biological limit values</b>           | No biological exposure limits noted for the ingredient(s).   |
| <b>Recommended monitoring procedures</b> |  |
| <b>Additional exposure data</b>          | Exposure limits have not been established for this product.  |
| <b>Personal protective equipment</b>     |  |
| <b>Respiratory protection</b>            | Provide adequate ventilation. In case of insufficient ventilation wear suitable respiratory equipment.   |
| <b>Hand protection</b>                   | Wear appropriate chemical resistant gloves. Recommended gloves: Nitrile 6 mil minimum thickness.   |
| <b>Eye protection</b>                    | Wear safety glasses; chemical goggles (if splashing is possible). Eye wash fountain and emergency showers are recommended.   |
| <b>Skin and body protection</b>          | Wear appropriate chemical resistant clothing.  |
| <b>Hygiene measures</b>                  | 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. |

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

|   |   |
|---|---|
| <b>Appearance</b>                                     |   |
| <b>Physical state</b>                                 | Liquid.   |
| <b>Form</b>   | Liquid.   |
| <b>Color</b>  | Cyan  |
| <b>Odor</b>   | Characteristic.                                     |
| <b>Odor threshold</b>                                 | Not available.                                      |
| <b>pH</b>   | Not available.                                      |
| <b>Boiling point</b>                                  | Not available.                                      |
| <b>Flash point</b>                                    | > 230.0 °F (> 110.0 °C) Closed Cup EPA Method 1020A |
| <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>Solubility (water)</b>                             | Not available.                                      |
| <b>Partition coefficient (n-octanol/water)</b>        | Not available.                                      |
| <b>Viscosity</b>                                      | Not available.                                      |
| <b>Evaporation rate</b>                               | Not available.                                      |
| <b>Melting point/Freezing point</b>                   | Not available.                                      |
| <b>Auto-ignition temperature</b>                      | Not available.                                      |
| <b>VOC</b>  | < 95 g/L Method 24/ASTM D5409-93                    |
| <b>Other data</b>                                     |   |
| <b>Chemical family</b>                                | Acrylate/Polymer/Pigment Blend                      |

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## 10. STABILITY AND REACTIVITY

|   |   |
|---|---|
| <b>Conditions to avoid</b>              | Exposure to sunlight.   |
| <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>Stability</b>                | Stable under normal storage conditions.                              |
| <b>Materials to avoid</b>       | Incompatible with strong bases and oxidizing agents. alkaline metals |
| <b>Hazardous polymerization</b> | Hazardous polymerization can occur with decreased inhibitor content. |

## 11. TOXICOLOGICAL INFORMATION

**General information** Not available.

### 11.1. Information on toxicological effects

**Acute toxicity** Based on available data, the classification criteria are not met.

**Skin corrosion/irritation** Causes skin irritation.

**Serious eye damage/eye irritation** Causes serious eye irritation.

**Respiratory sensitization** Based on available data, the classification criteria are not met.

**Skin sensitization** May cause sensitization by skin contact.

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

**Carcinogenicity** Based on available data, the classification criteria are not met.

#### IARC Monographs. Overall Evaluation of Carcinogenicity

Benzophenone (CAS 119-61-9) 2B Possibly carcinogenic to humans.

**Reproductive toxicity** Suspected of damaging fertility.

**Specific target organ toxicity - single exposure** Based on available data, the classification criteria are not met.

**Specific target organ toxicity - repeated exposure** Causes damage to organs (liver, respiratory system) through prolonged or repeated exposure.

**Aspiration hazard** Based on available data, the classification criteria are not met.

| Components | Species | Test Results |
|------------|---------|--------------|
|------------|---------|--------------|

Benzophenone (CAS 119-61-9)

#### Acute

*Oral*

|      |       |            |
|------|-------|------------|
| LD50 | Mouse | 2895 mg/kg |
|------|-------|------------|

*Other*

|      |       |           |
|------|-------|-----------|
| LD50 | Mouse | 727 mg/kg |
|------|-------|-----------|

**Other information** Complete toxicity data are not available for this specific formulation

## 12. ECOLOGICAL INFORMATION

**Aquatic toxicity** Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. This product has not been tested for ecological effects.

### Ecotoxicological data

| Components | Species | Test Results |
|------------|---------|--------------|
|------------|---------|--------------|

Benzophenone (CAS 119-61-9)

#### Aquatic

|      |      |   |
|------|------|---|
| Fish | LC50 | Fathead minnow ( <i>Pimephales promelas</i> ) 9.64 - 12.31 mg/l, 96 hours |
|------|------|---|

**Environmental effects** Not available.

## 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.

**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**

**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**



## 15. REGULATORY INFORMATION

|                               |  |
|-------------------------------|--|
| <b>Regulatory information</b> | The components of this product are reported in the following inventories: USA, European Union, Canada, New Zealand, Japan, Philippines, China, Australia, Korea.   |
| <b>Other information</b>      | Specific Provisions: Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC (in the amended version OJ L 396 from 29.05.2007 page 3 with further rectifications and amendments). |

## 16. OTHER INFORMATION

|  |   |
|--|---|
| <b>Disclaimer</b>  | 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. |
| <b>Prepared by</b>   | HP Chemical Compliance & Toxicology Department  |
| <b>This data sheet contains changes from the previous version in section(s):</b> | <ol style="list-style-type: none"> <li>1. Product and Company Identification: Synonyms</li> <li>2. Hazards Identification: EU Hazard Classifications</li> <li>3. Composition / Information on Ingredients: Ingredients</li> <li>9. Physical &amp; Chemical Properties: Multiple Properties</li> <li>14. Transport Information: Material Transportation Information</li> <li>15. Regulatory Information: United States</li> </ol> HazReg Data: Pacific Rim<br>GHS: Qualifiers                          |

### 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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