



# SAFETY DATA SHEET

## 1. Identification

**Name of the substance or mixture (trade name)** CH117Series

**Synonyms** HP Designjet 788 Magenta Ink

**Recommended use and Limitations on use**

**Recommended use** Inkjet printing

**Issue date** 28-Aug-2013

**Revision date** 12-Aug-2016

**Version #** 07

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## 2. Hazards identification

### Classification of the substance or mixture

<b>Physical hazards</b>	Not classified.	
<b>Health hazards</b>	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 1
	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

### GHS labeling elements, including precautionary statements

#### Hazard symbol(s)



#### Signal word

Danger

#### Hazard statement

Causes skin irritation. Causes serious eye damage. 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.

### GHS labeling elements, including precautionary statements

#### 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. P310 - Immediately call a POISON CENTER or doctor/physician. 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.
<b>Storage</b>	P405 - Store locked up.
<b>Disposal</b>	Dispose of contents/container in accordance with local/regional/national/international regulations.

### 3. Composition/information on ingredients

Substance or mixture	Mixture		
Common chemical name or technical name		CAS number	Concentration or concentration range
Acrylic acid ester		Proprietary	<40
Carboxylic Acids, Esters		Proprietary	<25
Vinylcaprolactam		Proprietary	<25
Difunctional acrylic monomer		Proprietary	<10
Acrylate ester		Proprietary	<5
Proprietary initiator		Proprietary	<5
TRADE SECRET		Proprietary	<5
2-benzyl-2-dimethylamino-4-morpholinobutyrophenone		119313-12-1	<1
Benzophenone		119-61-9	<1

### 4. First-aid measures

<b>First-aid measures</b>	
<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.
<b>Most important symptoms/effects, acute and delayed</b>	Not available.
<b>Notes to physician</b>	Not available.

### 5. Fire-fighting measures

<b>Flash point</b>	> 212.0 °F (> 100.0 °C) Closed Cup
<b>Means of fire extinguishing</b>	
<b>Suitable extinguishing media</b>	Dry powder. Carbon dioxide (CO2). Water may be ineffective.
<b>Unsuitable extinguishing media</b>	Water may be ineffective. Do not use a solid water stream as it may scatter and spread fire.
<b>Specific hazards arising from the chemical</b>	Not available.
<b>Special fire fighting procedures</b>	Avoid runoff into storm sewers and ditches which lead to waterways.
<b>Protective measures taken by firefighting crews</b>	Not available.
<b>Specific hazards arising from combustion</b>	Not available.

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## 6. Control measures for spills and leaks

### Personal precautions, protective equipment and emergency procedures

**To be taken by those who are not involved in rendering emergency services** 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.

**Emergency procedures** Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.

**Methods and materials for containment and cleaning up** Not available.

**Other issues relating to spills and releases** Soak up with inert absorbent material. 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. Do not handle or store near an open flame, heat or other sources of ignition. Keep away from excessive heat or cold. Do not store in direct sunlight.

**Suitable storage conditions** Not available.

**Incompatible materials** Not available.

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## 8. Exposure controls/personal protection

**Occupational exposure limits** No exposure limits noted for ingredient(s).

### Control parameters

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

**Appropriate engineering controls** Not available.

### Personal protective measures

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

#### Skin protection

**Hand protection** Recommended gloves: Nitrile 6 mil minimum thickness. Wear appropriate chemical resistant gloves.

**Other** Wear appropriate chemical resistant clothing.

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

**Thermal hazards** Not available.

**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.

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## 9. Physical and chemical properties

### Appearance

**Physical state** Liquid.

**Color** Magenta

**Odor** Characteristic.

**Odor threshold** Not available.

**pH** Not available.

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

**Initial boiling point and boiling temperature range** Not available.

**Flash point** > 212.0 °F (> 100.0 °C) Closed Cup

**Evaporation rate** Not available.

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

**Upper/lower flammability or explosive limits**

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

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

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

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

**Vapor pressure** Not available.

**Relative density** Not available.

**Solubility(ies)**

**Solubility (water)** Not available.

**Partition coefficient (n-octanol/water)** Not available.

**Auto-ignition temperature** Not available.

**Decomposition temperature** Not available.

**Viscosity** Not available.

**Other physical and chemical parameters**

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

**VOC (Weight %)** < 95 g/L

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## 10. Stability and reactivity

**Chemical stability** Stable under normal storage conditions.

**Reactivity** Not available.

**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.

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## 11. Toxicological information

**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 damage.

**Respiratory or skin sensitization**

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

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

**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.

**Toxic to reproduction** 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.

**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.

### Ecotoxicity

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>Bioaccumulative potential</b>		
<b>Bioconcentration factor (BCF)</b>	Not available.	
<b>Mobility in soil</b>	Not available.	
<b>Other adverse effects</b>	Not available.	

## 13. Considerations on final disposal

### Recommended methods for final destination

<b>Residual waste</b>	Not available.
<b>Contaminated packaging</b>	Not available.
<b>Local disposal regulations</b>	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

### International regulations

#### DOT

Not regulated as dangerous goods.

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

#### IATA

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

**IATA supplemental information** When shipping ≤ 5L inner packaging, Special Provision A197 may apply.

#### IMDG

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

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

#### ADR

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

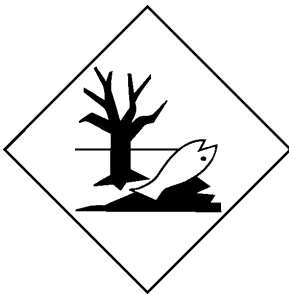
**ADR supplemental information** When shipping ≤ 5L containers, ADR 375 may apply.

**IATA; IMDG**



**ADR**

**Marine pollutant**



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## 15. Regulatory information

### Federal regulations

**Brazil. Controlled products that must be reported to the Army (Decree No. 3655, Annex 1, as amended)**

Not applicable.

**Brazil. Drug precursors (Ordinance No. 1.274)**

Not applicable.

**Brazil. Ozone depleting substances (Decree No. 99.280, Annexes A, B, C and E, as amended)**

Not applicable.

**Brazil. Use and physiological effects of chemical products (Decree No. 3665, Annex 3)**

Not applicable.

**POPs (Decree No. 5.472 promulgates the Stockholm Convention on persistent organic pollutants)**

Not listed.

### 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.

**Montreal Protocol**

Not applicable.

**Stockholm Convention**

Not applicable.

**Rotterdam Convention**

Not applicable.

**Kyoto protocol**

Not applicable.

**Basel Convention**

Not applicable.

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**16. Other information**

**Major recommended uses for the substance or mixture** Inkjet printing

**Specific restrictions for use of the substance or mixture** Not available.

**Significant information, yet not specifically related to the previous sections** Not available.

**Legends and abbreviations** Not available.

**Issue date** 28-Aug-2013

**Revision date** 12-Aug-2016

**Version #** 07

**Revision Information** Composition/Information on Ingredients  
Exposure controls/personal protection: <INDENT>Hand protection  
GHS: Qualifiers

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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