



# SAFETY DATA SHEET

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

### 1.1. Product identifier

**Trade name or designation of the mixture** CH118Series  
**Synonyms** HP Designjet 788 Yellow Ink  
**Version #** 04  
**Issue date** 28-May-2014  
**Revision date** 09-Aug-2015  
**Chemical family** Acrylate/Polymer/Pigment Blend  
**CAS #** Mixture

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** Inkjet printing

**Uses advised against** None known.

**Company identification** HP Computer and Printing Technologies Limited Liability Company  
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## 2. HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008 as amended

#### Health hazards

Skin corrosion/irritation	Category 2	H315 - Causes skin irritation.
Serious eye damage/eye irritation	Category 2	H319 - Causes serious eye irritation.
Skin sensitization	Category 1	H317 - May cause an allergic skin reaction.
Reproductive toxicity	Category 2	H361f - Suspected of damaging fertility.
Specific target organ toxicity - repeated exposure	Category 1	H372 - Causes damage to organs (liver, respiratory system) through prolonged or repeated exposure.

#### Environmental hazards

Hazardous to the aquatic environment, long-term aquatic hazard	Category 2	H411 - Toxic to aquatic life with long lasting effects.
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### 2.2. Label elements

#### Label according to Regulation (EC) No. 1272/2008 as amended

**Contains:** 2-benzyl-2-dimethylamino-4-morpholinobutyrophenone, 2-Phenoxy-ethyl acrylate, Aliphatic Urethane Acrylate, Alkyl Acrylate Ester, Alkyl Acrylate Ester, Benzophenone, Carboxylic Acids, Esters, Multi-Functional Acrylate Ester, Nickel, 5,5'-azobis-2,4,6(1H,3H,5H)-pyrimidinetrione Complexes, N-vinylcaprolactam, Proprietary initiator

#### Hazard pictograms



#### Signal word

Danger

## Hazard statements

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H317	May cause an allergic skin reaction.
H361f	Suspected of damaging fertility.
H372	Causes damage to organs (liver, respiratory system) through prolonged or repeated exposure
H411	Toxic to aquatic life with long lasting effects.

## 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.

### 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

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

## Supplemental label information

Contains Glycerolpropoxytriacylate. May produce an allergic reaction.

### 2.3. 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.

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

### 3.2. Mixtures

Components	CAS #	Percent	EC-No.
2-Phenoxy-ethyl acrylate	48145-04-6	<40	256-360-6
Carboxylic Acids, Esters	3076-04-8	<25	221-351-8
N-vinylcaprolactam	2235-00-9	<25	218-787-6
Alkyl Acrylate Ester	Proprietary	<10	
Multi-Functional Acrylate Ester	Proprietary	<10	262-270-8
Aliphatic Urethane Acrylate	Proprietary	<5	
Alkyl Acrylate Ester	Proprietary	<5	
Proprietary initiator	Proprietary	<5	278-355-8
Benzophenone	119-61-9	<2.5	204-337-6
Nickel, 5,5'-azobis-2,4,6-(1H,3H,5H)-pyrimidinetrione Complexes	68511-62-6	<2.5	270-944-8
2-benzyl-2-dimethylamino-4-morpholinobutyrophenone	119313-12-1	<1	404-360-3

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## 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.

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## 5. FIRE-FIGHTING MEASURES

<b>Flash point</b>	> 199.9 °F (> 93.3 °C) Closed Cup
<b>Suitable extinguishing media</b>	Dry powder. Carbon dioxide (CO <sub>2</sub> ). 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.

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## 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.

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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.
<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>Color</b>	Yellow
<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>	> 199.9 °F (> 93.3 °C) Closed Cup
<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>Vapor density</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
<b>Other data</b>	
<b>Chemical family</b>	Acrylate/Polymer/Pigment Blend

## 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

<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>Skin sensitizer</b>	May cause sensitization by skin contact.
<b>Respiratory sensitizer</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>Germ cell mutagenicity</b>	Based on available data, the classification criteria are not met.
<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>Further information</b>	Complete toxicity data are not available for this specific formulation

<b>Toxicological data</b>	<b>Species</b>	<b>Test Results</b>
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>Environmental effects</b>	Not available.
<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.

### Ecotoxicological data

Components	Species	Test Results
Benzophenone (CAS 119-61-9)		
<b>Aquatic</b>		
Fish	LC50	Fathead minnow (Pimephales promelas) 9.64 - 12.31 mg/l, 96 hours

## 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.

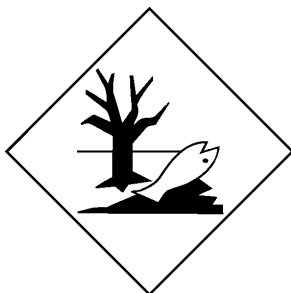
### IATA; IMDG





**ADR**

**Marine pollutant**



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## 15. REGULATORY INFORMATION

### Regulatory information

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.

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## 16. OTHER INFORMATION

### 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.

### Prepared by

HP

### 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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## 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