



# 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 CH120Series

### Other means of identification

Synonyms HP Designjet 788 Light Cyan Ink

### 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

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## 2. HAZARDS IDENTIFICATION

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

Physical hazards Not classified.

Health hazards

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Skin sensitization	Category 1
Reproductive toxicity	Category 2
Specific target organ toxicity - repeated exposure	Category 1

Environmental hazards Hazardous to the aquatic environment, long-term aquatic hazard Category 2

### 2.2 GHS label elements

#### Hazard symbol(s)



Signal word Danger

#### Hazard statement(s)

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 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.

## Precautionary statements

### Disposal

P501

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

## 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.

## Supplemental information

Contains Glycerolpropoxytriacylate. May produce an allergic reaction.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2. Mixtures

Components	CAS #	Percent
2-phenoxyethyl acrylate	48145-04-6	<40
1-vinylhexahydro-2H-azepin-2-one	2235-00-9	<25
Tridecyl acrylate	3076-04-8	<25
Neopentylglycol propoxylate diacrylate	84170-74-1	<10
Multi-Functional Acrylate Ester	Proprietary	<5
Proprietary initiator	Proprietary	<5
Poly (ethylene glycol) diacrylate	26570-48-9	<2.5
2-benzyl-2-dimethylamino-4-morpholinobutyrophenone	119313-12-1	<1

## 4. FIRST AID MEASURES

### 4.1. Description of first aid measures

#### 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.

### 4.2. Most important symptoms and effects, both acute and delayed

Not available.

**4.3. Indication of any immediate medical attention and special treatment needed** Not available.

**General information** Not available.

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## 5. FIRE-FIGHTING MEASURES

### 5.1. Extinguishing media

**Suitable extinguishing media** Dry powder. Carbon dioxide (CO<sub>2</sub>). Water may be ineffective.

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

**5.2. Special hazards arising from the substance or mixture** Not available.

### 5.3. Advice for firefighters

**Special protective equipment for firefighters** Not available.

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

**General fire hazards** Not available.

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## 6. ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** Wear appropriate personal protective equipment. Do not touch or walk through spilled material.

**For emergency responders** Not available.

**6.2. Environmental precautions** Do not let product enter drains. Do not flush into surface water or sanitary sewer system. See also section 13 Disposal considerations.

**6.3. Methods and material for containment and cleaning up** Not available.

**6.4. Reference to other sections** Not available.

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## 7. HANDLING AND STORAGE

**7.1. Precautions for safe handling** Avoid contact with skin, eyes and clothing.

**7.2. Conditions for safe storage, including any incompatibilities** 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.

**7.3. Specific end use(s)** Not available.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

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

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

**Recommended monitoring procedures** Not available.

### Recommended monitoring procedures

**Additional exposure data** Exposure limits have not been established for this product.

### Derived no-effect level (DNEL)

Components	Type	Route	Value	Form
1-vinylhexahydro-2H-azepin-2-one (CAS 2235-00-9)	Workers	Dermal	0.7 mg/kg	Systemic long term
		Inhalation	4.9 mg/m <sup>3</sup>	Systemic long term
		Inhalation	0.17 mg/m <sup>3</sup>	Local long term
2-benzyl-2-dimethylamino-4-morpholinobutyrophenone (CAS 119313-12-1)	Workers	Dermal	5 mg/kg	Local short term
		Dermal	1 mg/kg	Local long term
		Dermal	0.23 mg/kg	systemic short term

Components	Type	Route	Value	Form	
2-phenoxyethyl acrylate (CAS 48145-04-6)	Industry	Dermal	0.17 mg/kg	Systemic long term	
		Inhalation	5 mg/m3	Local short term	
		Inhalation	1.65 mg/m3	systemic short term	
		Inhalation	1 mg/m3	Local long term	
		Inhalation	0.17 mg/m3	systemic long term	
	Workers	Dermal	1.5 mg/kg/day		
		Inhalation	10 mg/m3		
		Dermal	1.5 mg/kg		Systemic long term
		Inhalation	77 mg/m3		Local long term
		Inhalation	10 mg/m3		Systemic long term
Multi-Functional Acrylate Ester (CAS Proprietary)	Industry	Dermal	0.5 mg/kg/day		
Neopentylglycol propoxylate diacrylate (CAS 84170-74-1)	Workers	Inhalation	1.76 mg/m3		
		Dermal	3.33 mg/kg	Systemic long term	
		Inhalation	11.75 mg/m3	Systemic long term	

#### Predicted no effect concentrations (PNECs)

Components	Type	Route	Value	Form
1-vinylhexahydro-2H-azepin-2-one (CAS 2235-00-9)	Not applicable	Freshwater	0.1 mg/l	
		Intermittant	1 mg/l	Releases
		Marine water	0.01 mg/l	
		Sediment	0.829 mg/kg	Freshwater
		Sediment	0.0829 mg/kg	Marine water
		Soil	0.107 mg/kg	
		STP	262 mg/l	Sewage Treatment Plant
		Freshwater	0.0005 mg/l	
		Intermittant	0.005 mg/l	Releases
		Marine water	0.00005 mg/l	
2-benzyl-2-dimethylamino-4-morpholinobutyrophenone (CAS 119313-12-1)	Not applicable	Sediment	0.0005 mg/kg	Freshwater
		Sediment	0.00015 mg/kg	Marine water
		Soil	0.0026 mg/kg	
		STP	0.59 mg/l	Sewage Treatment Plant
		Freshwater	0.002 mg/l	
		Intermittant	0.0121 mg/l	Releases
		Marine water	0.0002 mg/l	
		Sediment	0.02 mg/kg	Freshwater
		Sediment	0.002 mg/kg	Marine water
		Soil	0.006 mg/kg	
2-phenoxyethyl acrylate (CAS 48145-04-6)	Not applicable	STP	1.77 mg/l	Sewage Treatment Plant
		Freshwater	0.0027 mg/l	
		Intermittant	0.027 mg/l	Releases
		Marine water	0.00027 mg/l	
		Sediment	0.188 mg/kg	Freshwater
		Sediment	0.018 mg/kg	Marine water
		Soil	0.036 mg/kg	
		STP	0.2 mg/l	Sewage Treatment Plant
		Freshwater	0.0027 mg/l	
		Intermittant	0.027 mg/l	Releases

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

#### 8.2. Exposure controls

**Appropriate engineering controls** Not available.

#### Individual protection measures, such as personal protective equipment

**General information** Not available.

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

#### Skin protection

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

**Individual protection measures, for example personal protective equipment (PPE)**

**Skin protection**

**Individual protection measures, such as personal protective equipment**

- **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.

**Environmental exposure controls** Not available.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

#### Appearance

**Physical state** Liquid.

**Form** Liquid.

**Color** Light Cyan

**Odor** Characteristic.

**Odor threshold** Not available.

**pH** Not available.

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

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

**Flash point** > 230.0 °F (> 110.0 °C) Closed Cup EPA Method 1020A

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

**Vapor pressure** Not available.

**Vapor density** Not available.

#### Solubility(ies)

**Solubility (water)** Not available.

**Solubility (other)** Not available.

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

**Auto-ignition temperature** Not available.

**Viscosity** Not available.

**Explosive properties** Not available.

**Oxidizing properties** Not available.

### 9.2. Other information

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

**VOC (Weight %)** < 95 g/L Method 24/ASTM D5409-93

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## 10. STABILITY AND REACTIVITY

**10.1 Reactivity** Not available.

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

**10.3. Possibility of hazardous reactions** Hazardous polymerization can occur with decreased inhibitor content.

**10.4. Conditions to avoid** Exposure to sunlight.

<b>10.5. Incompatible materials</b>	Incompatible with strong bases and oxidizing agents. alkaline metals
<b>10.6. Hazardous decomposition products</b>	Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

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## 11. TOXICOLOGICAL INFORMATION

<b>General information</b>	Not available.
<b>11.1. Information on toxicological effects</b>	
<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 sensitization</b>	Based on available data, the classification criteria are not met.
<b>Respiratory or skin sensitization</b>	
<b>Skin sensitization</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. Benzophenone is classified by the IARC as a Group 2B carcinogen (the substance is possibly carcinogenic to humans).
<b>Reproductive toxicity</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>Other information</b>	Complete toxicity data are not available for this specific formulation

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## 12. ECOLOGICAL INFORMATION

<b>12.1. Toxicity</b>	No toxicity data noted for the ingredient(s).
<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>12.2. Persistence and degradability</b>	Not available.
<b>12.3. Bioaccumulative potential</b>	Not available.
<b>Bioconcentration factor (BCF)</b>	Not available.
<b>12.5. Results of PBT and vPvB assessment</b>	Not a PBT or vPvB substance or mixture.
<b>12.6. Other adverse effects</b>	Not available.

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## 13. DISPOSAL CONSIDERATIONS

<b>13.1. Waste treatment methods</b>	
<b>Residual waste</b>	Not available.
<b>Contaminated packaging</b>	Not available.
<b>EU waste code</b>	Not available.
<b>Disposal methods/information</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.

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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

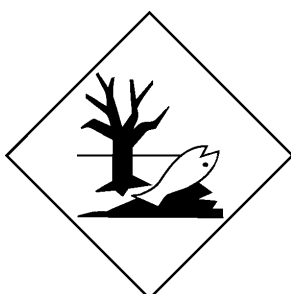
<b>UN number</b>	UN3082
<b>UN proper shipping name</b>	Environmentally Hazardous Substance, Liquid, N.O.S. (Acrylates)
<b>Transport hazard class(es)</b>	
<b>Class</b>	9

<b>Subsidiary risk</b>	-
<b>Packing group</b>	III
<b>Environmental hazards</b>	Yes
<b>Special precautions for user</b>	Not available.
<b>IATA supplemental information</b>	When shipping ≤ 5L inner packaging, Special Provision A197 may apply.
<b>IMDG</b>	
<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.
<b>IMDG supplemental information</b>	When shipping ≤ 5L containers, IMDG 2.10.2.7 may apply.
<b>ADR</b>	
<b>Proper shipping name</b>	Environmentally Hazardous Substance, Liquid, N.O.S. (Acrylates)
<b>Hazard class</b>	9
<b>UN number</b>	3082
<b>Packing group</b>	III
<b>Marine pollutant</b>	Yes
<b>ADR supplemental information</b>	When shipping ≤ 5L containers, ADR 375 may apply.
<b>IATA; IMDG</b>	



**ADR**

**Marine pollutant**



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## 15. REGULATORY INFORMATION

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

**15.2. Chemical safety assessment** See attached SUMI or GEIS document, if applicable.

**International regulations** 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

**List of abbreviations** Not available.

**References** Not available.

**Information on evaluation method leading to the classification of mixture** Not available.

**Revision information**

- 1. Product and Company Identification: Alternate Trade Names
- 3. Composition / Information on Ingredients: Ingredients
- 9. Physical & Chemical Properties: Multiple Properties
- 14. Transport Information: Material Transportation Information
- 15. Regulatory Information: United States

GHS: Qualifiers

**Manufacturer information**

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Product Information 1-800-925-0563

**Training information** Not available.

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