



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
Synonyms HP Designjet 788 Light Cyan Ink
Version # 04
Issue date 29-May-2014
Revision date 13-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.

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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 #1, Alkyl Acrylate Ester #2, Carboxylic Acids, Esters, Multi-Functional Acrylate Ester, 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
Aliphatic Urethane Acrylate	Proprietary	<10	
Alkyl Acrylate Ester #2	Proprietary	<10	
Multi-Functional Acrylate Ester	Proprietary	<5	262-270-8
Proprietary initiator	Proprietary	<5	278-355-8
Alkyl Acrylate Ester #1	Proprietary	<2.5	
2-benzyl-2-dimethylamino-4-morpholinobutyrophenone	119313-12-1	<1	404-360-3

4. 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.

5. FIRE-FIGHTING MEASURES

Flash point > 230.0 °F (> 110.0 °C) Closed Cup
Suitable extinguishing media Dry powder. Carbon dioxide (CO₂). Water may be ineffective.
Extinguishing media which must not be used for safety reasons Water may be ineffective. Do not use a solid water stream as it may scatter and spread fire.
Unusual fire & explosion hazards None known.
Fire fighting equipment/instructions Avoid runoff into storm sewers and ditches which lead to waterways.

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

7. HANDLING AND STORAGE

Handling Avoid contact with skin, eyes and clothing.
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. Opaque, high density polyethylene (HDPE) containers are recommended for shipping and storage.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance
Physical state Liquid.
Color Light Cyan
Odor Characteristic.
Odor threshold Not available.
pH Not available.
Boiling point Not available.
Flash point > 230.0 °F (> 110.0 °C) Closed Cup
Flammability limits in air, upper, % by volume Not available.
Flammability limits in air, lower, % by volume Not available.
Vapor pressure Not available.
Solubility (water) Not available.
Partition coefficient (n-octanol/water) Not available.

Viscosity	Not available.
Vapor density	Not available.
Evaporation rate	Not available.
Melting point/Freezing point	Not available.
Auto-ignition temperature	Not available.
VOC	< 95 g/L
Other data	
Chemical family	Acrylate/Polymer/Pigment Blend

10. STABILITY AND REACTIVITY

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

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

12. ECOLOGICAL INFORMATION

Environmental effects	Not available.
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.

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.
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14. TRANSPORT INFORMATION

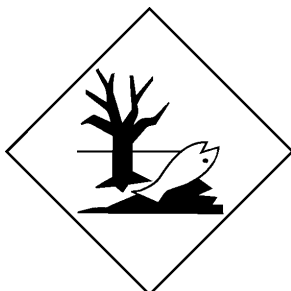
DOT	Not regulated as dangerous goods.
DOT supplemental information	DOT Classification only applies to shipments within the US and Puerto Rico.
IATA	
UN number	UN3082
UN proper shipping name	Environmentally Hazardous Substance, Liquid, N.O.S. (Acrylates)
Transport hazard class(es)	
Class	9
Subsidiary 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	
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



15. REGULATORY INFORMATION

Regulatory information

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

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

ACGIH	American Conference of Governmental Industrial Hygienists
CAS	Chemical Abstracts Service
CERCLA	Comprehensive Environmental Response Compensation and Liability Act
CFR	Code of Federal Regulations
COC	Cleveland Open Cup
DOT	Department of Transportation
EPCRA	Emergency Planning and Community Right-to-Know Act (aka SARA)
IARC	International Agency for Research on Cancer
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
RCRA	Resource Conservation and Recovery Act
REC	Recommended
REL	Recommended Exposure Limit
SARA	Superfund Amendments and Reauthorization Act of 1986
STEL	Short-Term Exposure Limit
TCLP	Toxicity Characteristics Leaching Procedure
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act
VOC	Volatile Organic Compounds