



1. Chemical and company identification

Name of chemical (Product name) CH116Series

Recommended use of the chemical and restrictions on use

Intended use Inkjet printing

Synonym(s) HP Designjet 788 Cyan Ink

Company identification HP Japan Inc.
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Issue date 28-Aug-2013

Revision date 08-Aug-2015

Version number 06

2. Hazards identification

GHS classification

Physical hazards The product is not classified according to GHS.

Health hazards

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Sensitization, skin	Category 1
Reproductive toxicity (fertility)	Category 2
Specific target organ toxicity, repeated exposure	Category 1 (liver, respiratory system)

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

GHS label elements

Symbols



Signal words

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.

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

Other hazards 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.

3. Composition/information on ingredients

Substance or mixture	Mixture	
Components	CAS #	Percent
2-Phenoxy-ethyl acrylate	48145-04-6	<40
Carboxylic Acids, Esters	3076-04-8	<25
N-vinylcaprolactam	2235-00-9	<25
Aliphatic Urethane Acrylate	Proprietary	<10
Multi-Functional Acrylate Ester	Proprietary	<5
Proprietary initiator	Proprietary*	<5
Alkyl Acrylate Ester #1	Proprietary	<2.5
Alkyl Acrylate Ester #2	Proprietary*	<2.5
Benzophenone	119-61-9	<2.5
2-benzyl-2-dimethylamino-4-morpholinobutyrophenone	119313-12-1	<1

4. First aid measures

If inhaled	Move to fresh air. If symptoms persist, get medical attention.
If on skin	Wash affected areas thoroughly with mild soap and water. If irritation persists get medical attention.
If in eyes	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.
If swallowed	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
Extinguishing media	Dry powder. Carbon dioxide (CO2). Water may be ineffective.
Extinguishing media to avoid	Water may be ineffective. Do not use a solid water stream as it may scatter and spread fire.
Special fire fighting procedures	Avoid runoff into storm sewers and ditches which lead to waterways.

6. Accidental release measures

Personal precautions, protective equipment and emergency measures	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 or materials for containment and cleaning up	Not available.

7. Handling and storage

Handling

Technical measures (e.g. Local and general ventilation)	Not available.
Local and general ventilation	Not available.
Precautions	Not available.
Safe handling advice	Avoid contact with skin, eyes and clothing.

Storage

Technical measures	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. Opaque, high density polyethylene (HDPE) containers are recommended for shipping and storage.
Safe storage conditions	Not available.
Safe packaging materials	Not available.

8. Exposure controls/personal protection

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

Recommended monitoring procedures

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

Exposure guidelines 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.

9. Physical and chemical properties

Appearance

Physical state	Liquid.
Color	Cyan

Odor Characteristic.

pH Not available.

Melting point/Freezing point Not available.

Boiling point, initial boiling point, and boiling range Not available.

Flash point > 230.0 °F (> 110.0 °C) Closed Cup

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.

Solubility(ies) Not available.

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

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity (Coefficient of viscosity) Not available.

Other information

Chemical family	Acrylate/Polymer/Pigment Blend
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VOC (Weight %) < 95 g/L

10. Stability and reactivity

Reactivity	Not available.
Chemical stability	Stable under normal storage conditions.
Possibility of hazardous reactions	Hazardous polymerization can occur with decreased inhibitor content.
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.

11. Toxicological information

General information	Not available.
Acute toxicity	Based on available data, the classification criteria are not met.

Components	Species	Test Results
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Benzophenone (CAS 119-61-9)

Acute

Oral

LD50	Mouse	2895 mg/kg
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Other

LD50	Mouse	727 mg/kg
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Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye irritation Causes serious eye irritation.

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

Skin sensitizer 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.

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

Ecotoxicological data

Components	Species	Test Results
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Benzophenone (CAS 119-61-9)

Aquatic

Fish

LC50	Fathead minnow (Pimephales promelas)	9.64 - 12.31 mg/l, 96 hours
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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.

Persistence and degradability Not available.

Bioaccumulation Not available.

Mobility in soil Not available.

Hazardous to the ozone layer Not available.

13. Disposal considerations

Local disposal regulations 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

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

Basic shipping requirements:

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.

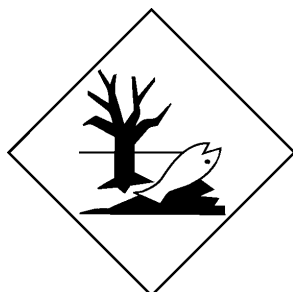
IATA; IMDG





ADR

Marine pollutant



15. Regulatory information

Poisonous and Deleterious Substances Control Act

Specified poisonous substances

Not regulated.

Poisonous substances

Not regulated.

Deleterious substances

Not regulated.

Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.

Class I specified chemical substances

Not regulated.

Class II specified chemical substances

Not regulated.

Monitoring chemical substances

Not regulated.

Priority Assessment Chemical Substances (PACs)

Not regulated.

Reporting Exempted Substances

Not regulated.

Industrial Safety and Health Act

Notifiable substances

Not regulated.

Labeling substances

Not regulated.

Law concerning Pollutant Release and Transfer Register

Specified class 1 substances (substance name, ordinance number and content)

Not regulated.

Class 1 substances (substance name, ordinance number and content)

BENZOPHENONE Ordinance No. 403 1.0 % (Benzophenone Derivative)

Class 2 substances (substance name, ordinance number and content)

Not regulated.

Fire Service Act

Class 4 Group 3 oils (Non-water soluble) Hazard rank III

Ship Safety Law, Dangerous Goods Marine Transport and Storage Rule

Miscellaneous dangerous substances

Air Law, Enforcement Rule

Miscellaneous dangerous goods

Explosives Control Act

Not regulated.

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

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.

This data sheet contains changes from the previous version in section(s): 1. Product and Company Identification: Alternate Trade Names
Other information: Disclaimer

Issue date 28-Aug-2013
Revision date 08-Aug-2015
Version number 06
Manufacturer information HP
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Product Information 1-800-925-0563

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