



SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Material name CH119Series
Product use Inkjet printing
Issue date 28-Aug-2013
Revision date 13-May-2016
Version # 08
Synonym(s) HP Designjet 788 Black Ink
Chemical family Acrylate/Polymer/Pigment Blend
Company identification HP Philippines
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2. HAZARDS IDENTIFICATION

Physical hazards Not classified.
Health hazards Skin corrosion/irritation Category 2
Serious eye damage/eye irritation Category 2A
Skin sensitizer Category 1
Toxic to reproduction (fertility) Category 2
Specific target organ toxicity - repeated exposure Category 1 (liver, respiratory system)
Environmental hazards Chronic hazards to the aquatic environment Category 2

GHS label elements

Signal word 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.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS #	Percent
2-Phenoxy-ethyl acrylate	48145-04-6	<40
Carboxylic Acids, Esters	3076-04-8	<25
N-vinylcaprolactam	2235-00-9	<25
Difunctional acrylic monomer	Proprietary	<10
Aliphatic Urethane Acrylate	Proprietary	<5
Alkyl Acrylate Ester #1	Proprietary	<5
Multi-Functional Acrylate Ester	Proprietary	<5
Proprietary initiator	Proprietary	<5
Carbon black	1333-86-4	<2.5
2-benzyl-2-dimethylamino-4-morpholinobutyrophenone	119313-12-1	<1

Composition comments Carbon black is present only in a bound form in this preparation.

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	> 212.0 °F (> 100.0 °C) (Closed Cup)
Suitable extinguishing media	Dry powder. Carbon dioxide (CO ₂). 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

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Carbon black (CAS 1333-86-4)	TWA	3 mg/m ³	Inhalable fraction.

Philippines. OELs Threshold Limit Values for Airborne Contaminants

Components	Type	Value
Carbon black (CAS 1333-86-4)	TWA	3.5 mg/m ³

Exposure guidelines	Exposure limits have not been established for this product.
Biological limit values	No biological exposure limits noted for the ingredient(s).
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	Black.
Odor	Characteristic.
Odor threshold	Not available.
pH	Not available.
Vapor pressure	Not available.
Boiling point	Not available.
Melting point/Freezing point	Not available.
Solubility (water)	Not available.
Specific gravity	Not available.
Flash point	> 212.0 °F (> 100.0 °C) (Closed Cup)
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not available.
Auto-ignition temperature	Not available.
VOC	< 95 g/L
Other data	
Chemical family	Acrylate/Polymer/Pigment Blend

10. STABILITY AND REACTIVITY

Stability	Stable under normal storage conditions.
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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.
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.
Respiratory sensitizer	Based on available data, the classification criteria are not met.
Skin sensitization	May cause sensitization by skin contact.
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). Carbon black is classified as a carcinogen by the IARC (possibly carcinogenic to humans, Group 2B) and by the State of California under Proposition 65. In their evaluations of carbon black, both organizations indicate that exposure to carbon black, per se, does not occur when it remains bound within a product matrix, specifically, rubber, ink, or paint. Carbon black is present only in a bound form in this preparation.

IARC Monographs. Overall Evaluation of Carcinogenicity

Carbon black (CAS 1333-86-4) 2B Possibly carcinogenic to humans.

Mutagenicity	Based on available data, the classification criteria are not met.
Reproductivity	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

Toxicological data Components	Species	Test Results
Carbon black (CAS 1333-86-4)		
Acute		
<i>Oral</i>		
LD50	Rat	> 8000 mg/kg

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.

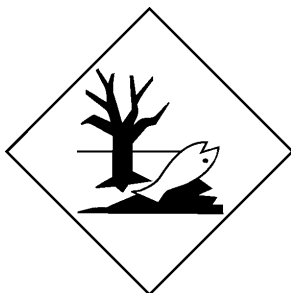
ADR**Basic shipping requirements:**

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

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.

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 Inc. Chemical Compliance & Toxicology Department

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Revision date

13-May-2016

Version #

08

This data sheet contains changes from the previous version in section(s):

1. Product and Company Identification: Alternate Trade Names
 2. Hazards Identification: Shared US and Canadian Categories
- Composition/Information on Ingredients
OTHER INFORMATION: Disclaimer

Manufacturer information

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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