



SAFETY DATA SHEET

1. Product and company identification

Product name CH119Series
Synonyms HP Designjet 788 Black Ink
Recommended use and Limitations on use
Recommended use Inkjet printing
Issue date 28-Aug-2013
Revision date 09-Aug-2015
Version # 08
Company identification HP Taiwan Information Technology Ltd.
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2. Hazards identification

Hazard classification

| | | |
|------------------------------|--|-------------|
| 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 | Category 2 |
| | Specific target organ toxicity - repeated exposure | Category 1 |
| Environmental hazards | Chronic hazards to the aquatic environment | Category 2 |

Label elements

Symbols



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.

Other hazards Carbon black is classified by the IARC as a Group 2B carcinogen (the substance is possibly carcinogenic to humans). Carbon black in this preparation, due to its bound form, does not present this carcinogenic risk. 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

| Substance or mixture | Mixture | CAS # | Percent |
|--|---------|-------------|---------|
| Components | | | |
| 2-Phenoxy-ethyl acrylate | | 48145-04-6 | <40 |
| Carboxylic Acids, Esters | | 3076-04-8 | <25 |
| N-vinylcaprolactam | | 2235-00-9 | <25 |
| Alkyl Acrylate Ester #2 | | 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

First aid measures for different exposure routes

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.

Most important symptoms and effects Not available.

Personal protection for first-aid responders Not available.

Notes to physician Not available.

5. Fire-fighting measures

Flash point > 212.0 °F (> 100.0 °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. |
| Specific hazards during fire fighting | None. |
| Special fire fighting procedures | Avoid runoff into storm sewers and ditches which lead to waterways. |
| Protection of fire-fighters | None. |

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. |
| Spill cleanup methods | Not available. |
| Other information | Dispose of in compliance with federal, state, and local regulations. |

7. Handling and storage

| | |
|------------------------------------|---|
| Handling | |
| Precautions | Not available. |
| Safe handling advice | Avoid contact with skin, eyes and clothing. |
| Storage | |
| Technical measures | Opaque, high density polyethylene (HDPE) containers are recommended for shipping and 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. |
| Suitable storage conditions | Not available. |
| Incompatible materials | Not available. |

8. Exposure controls/personal protection

Exposure limits

Taiwan. OELs. (Standards on Workplace Atmosphere of Dangerous and Hazardous Materials)

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

US. ACGIH Threshold Limit Values

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

| | |
|--------------------------------------|--|
| Biological limit values | No biological exposure limits noted for the ingredient(s). |
| Engineering measures | Not available. |
| 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. |
| Exposure guidelines | Exposure limits have not been established for this product. |

9. Physical and chemical properties

Appearance

| | |
|-----------------------|-----------------|
| Physical state | Liquid. |
| Color | Black. |
| Odor | Characteristic. |

| | |
|--|--------------------------------------|
| pH | Not available. |
| Melting point/freezing point | Not available. |
| Boiling point, initial boiling point, and boiling range | Not available. |
| Flash point | > 212.0 °F (> 100.0 °C) (Closed Cup) |
| Flammability (solid, gas) | Not available. |
| Explosive limit - lower (%) | Not available. |
| Explosive limit - upper (%) | Not available. |
| Vapor pressure | Not available. |
| Solubility(ies) | |
| Solubility (water) | Not available. |
| Decomposition temperature | Not available. |
| Other data | |
| Chemical family | Acrylate/Polymer/Pigment Blend |
| VOC (Weight %) | < 95 g/L |

10. Stability and reactivity

| | |
|---|---|
| Stability | Stable under normal storage conditions. |
| 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. |
| Possibility of hazardous reactions | 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 sensitizer | May cause sensitization by skin contact. |
| Germ cell mutagenicity | Based on available data, the classification criteria are not met. |
| Carcinogenicity | 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. 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). |
| ACGIH Carcinogens | |
| Carbon black (CAS 1333-86-4) | A3 Confirmed animal carcinogen with unknown relevance to humans. |
| IARC Monographs. Overall Evaluation of Carcinogenicity | |
| Carbon black (CAS 1333-86-4) | 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 |

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

12. Ecological information

| | |
|--------------------------------------|--|
| 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. |
| Other hazardous effects | 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

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

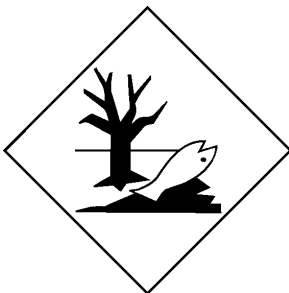
When shipping ≤ 5L containers, ADR 375 may apply.

IATA; IMDG



ADR

Marine pollutant



15. Regulatory information

Applicable regulations

Methods and Facilities Standards for the Storage, Clearance and Disposal of Industrial Waste

Not listed.

Standards on Workplace Atmosphere of Dangerous and Hazardous Materials

Carbon black (CAS 1333-86-4)

Listed.

GHS Classification List: GHS implementation phase 1 and 2 (CLA No. 0960145703, 0970146313, and 0990146707)

Carbon black (CAS 1333-86-4)

Multi-Functional Acrylate Ester (CAS Proprietary)

Proprietary initiator (CAS Proprietary)

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

References

Not available.

Issued by

Not available.

Prepared by

HP

Disclaimer

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Issue date

28-Aug-2013

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09-Aug-2015

Version #

08

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 |