



SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name or designation of the mixture CH119Series
Registration number -
Synonyms HP Designjet 788 Black Ink
Issue date 28-Aug-2013
Version number 12
Revision date 26-Jun-2016
Supersedes date 09-Aug-2015

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 HPCP - Computing and Printing Portugal, Unipessoal, Lda.
Quinta da Fonte, Pt. Ground Floor
Paco de Arcos, Portugal 2774-528
Telephone +351 21 482 85

HP Inc. health effects line
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Emergency number 112

SECTION 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 (fertility) | Category 2 | H361f - Suspected of damaging fertility. |
| Specific target organ toxicity - repeated exposure | Category 1 (liver, respiratory system) | 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. |
|--|------------|---|

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Contains: [2-(hydroxymethyl)-3-prop-2-enoyloxy-2-[[3-prop-2-enoyloxy-2,2-bis(prop-2-enoyloxymethyl)propoxy]methyl]propyl] prop-2-enoate, 1-vinylhexahydro-2H-azepin-2-one, 2-benzyl-2-dimethylamino-4-morpholinobutyrophenone, 2-phenoxyethyl acrylate, Carbon black, Neopentylglycol propoxylate diacrylate, Poly (ethylene glycol) diacrylate, Proprietary initiator, Tridecyl acrylate

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.
Contains Glycerolpropoxytriacylate. May produce an allergic reaction.

Supplemental label information

2.3. 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.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

| Chemical name | % | CAS-No. / EC No. | REACH Registration No. | Index No. | Notes |
|----------------------------------|---|-------------------------|------------------------|-----------|-------|
| 2-phenoxyethyl acrylate | <40 | 48145-04-6 256-360-6 | - | - | |
| Classification: | Skin Sens. 1A;H317, Aquatic Chronic 2;H411 | | | | |
| 1-vinylhexahydro-2H-azepin-2-one | <25 | 2235-00-9 218-787-6 | - | - | |
| Classification: | Acute Tox. 4;H302, Acute Tox. 4;H312, Skin Sens. 1B;H317, Eye Irrit. 2;H319, STOT RE 1;H372 | | | | |
| Tridecyl acrylate | <25 | 3076-04-8 221-351-8 | - | - | |
| Classification: | Skin Irrit. 2;H315, Eye Irrit. 2;H319, STOT SE 3;H335, Aquatic Chronic 2;H411 | | | | |

| Chemical name | % | CAS-No. / EC No. | REACH Registration No. | Index No. | Notes |
|--|---|--------------------------|------------------------|--------------|-------|
| Neopentylglycol propoxylate diacrylate | <10 | 84170-74-1 | 01-2119970213-43-XXXX | - | |
| Classification: | Skin Sens. 1B;H317, Aquatic Chronic 2;H411 | | | | |
| [2-(hydroxymethyl)-3-prop-2-enoyloxy-2-[[[3-prop-2-enoyloxy-2,2-bis(prop-2-enoyloxymethyl)propoxy]methyl]propyl] prop-2-enoate | <5 | 60506-81-2 262-270-8 | - | - | |
| Classification: | Skin Sens. 1A;H317, Eye Irrit. 2;H319, Aquatic Chronic 3;H412 | | | | |
| Poly (ethylene glycol) diacrylate | <5 | 26570-48-9 | - | - | |
| Classification: | Skin Irrit. 2;H315, Eye Irrit. 2;H319 | | | | |
| Proprietary initiator | <5 | Proprietary | - | - | |
| Classification: | Skin Sens. 1B;H317, Repr. 2;H361f, Aquatic Chronic 2;H411 | | | | |
| Carbon black | <2.5 | 1333-86-4 215-609-9 | 01-2119384822-32-XXXX | - | |
| Classification: | - | | | | |
| 2-benzyl-2-dimethylamino-4-morpholinobutyrophenone | <1 | 119313-12-1 404-360-3 | - | 606-047-00-9 | |
| Classification: | Repr. 2;H361d, Aquatic Acute 1;H400, Aquatic Chronic 1;H410 | | | | |

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

SECTION 4: First aid measures

General information Not available.

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.

SECTION 5: Firefighting measures

General fire hazards Not available.

5.1. Extinguishing media

Suitable extinguishing media Dry powder. Carbon dioxide (CO₂). 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.

SECTION 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.

SECTION 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.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Portugal. VLEs. Norm on occupational exposure to chemical agents (NP 1796)

| Components | Type | Value | Form |
|------------------------------|------|-----------|-------|
| Carbon black (CAS 1333-86-4) | TWA | 3.5 mg/m3 | Fume. |

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

Recommended monitoring procedures Not available.

Derived no-effect level (DNEL)

| Components | Type | Route | Value | Form |
|--|------------|--------------------|---------------|---------------------|
| [2-(hydroxymethyl)-3-prop-2-enoyloxy-2-[[3-prop-2-enoyloxy-2,2-bis(prop-2-enoyloxymethyl)propoxy]methyl]propyl] prop-2-enoate (CAS 60506-81-2) | Industry | Dermal | 0.5 mg/kg/day | |
| | | Inhalation | 1.76 mg/m3 | |
| 1-vinylhexahydro-2H-azepin-2-one (CAS 2235-00-9) | Workers | Dermal | 0.7 mg/kg | Systemic long term |
| | | Inhalation | 4.9 mg/m3 | Systemic long term |
| | | Inhalation | 0.17 mg/m3 | 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 |
| | | 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 | | |

| Components | Type | Route | Value | Form |
|---|-----------|------------|---------------|--------------------|
| 2-phenoxyethyl acrylate (CAS 48145-04-6) | Industry | Dermal | 1.5 mg/kg/day | |
| | | Inhalation | 10 mg/m3 | |
| Carbon black (CAS 1333-86-4) | Workers | Dermal | 1.5 mg/kg | Systemic long term |
| | | Inhalation | 77 mg/m3 | Local long term |
| | Consumers | Inhalation | 10 mg/m3 | Systemic long term |
| | | Inhalation | 1.75 mg/m3 | Local long term |
| Neopentylglycol propoxylate diacrylate (CAS 84170-74-1) | Workers | Inhalation | 0.06 mg/m3 | Systemic long term |
| | | Inhalation | 2 mg/m3 | Local long term |
| | | Dermal | 1 mg/m3 | Systemic long term |
| | | Inhalation | 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 |
| 2-benzyl-2-dimethylamino-4-morpholinobutyrophenone (CAS 119313-12-1) | Not applicable | Freshwater | 0.0005 mg/l | |
| | | Intermittant | 0.005 mg/l | Releases |
| | | Marine water | 0.00005 mg/l | |
| | | 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 |
| 2-phenoxyethyl acrylate (CAS 48145-04-6) | Not applicable | 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 | |
| | | STP | 1.77 mg/l | Sewage Treatment Plant |
| Carbon black (CAS 1333-86-4) | Not applicable | Freshwater | 5 mg/l | |
| | | Marine water | 5 mg/l | |
| Neopentylglycol propoxylate diacrylate (CAS 84170-74-1) | Not applicable | 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 |

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.

| | |
|--|--|
| - 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. |

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

| | |
|---|--------------------------------------|
| Physical state | Liquid. |
| Color | Black. |
| 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 | > 212.0 °F (> 100.0 °C) (Closed Cup) |
| 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. |
| Vapor pressure | Not available. |
| Relative 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. |
| Decomposition 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 |

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

SECTION 11: Toxicological information

| | |
|----------------------------|----------------|
| General information | Not available. |
|----------------------------|----------------|

11.1. Information on toxicological effects

| | |
|--|---|
| 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 sensitization | Based on available data, the classification criteria are not met. |
| Skin sensitization | 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. 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.

| | | |
|---|---|---------------------|
| Reproductive toxicity | 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. | |
| Components | Species | Test Results |
| <hr/> | | |
| Carbon black (CAS 1333-86-4) | | |
| Acute | | |
| <i>Oral</i> | | |
| LD50 | Rat | > 8000 mg/kg |
| Mixture versus substance information | Not available. | |
| Other information | Complete toxicity data are not available for this specific formulation | |

SECTION 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. |
| 12.1. Toxicity | No toxicity data noted for the ingredient(s). |
| 12.2. Persistence and degradability | Not available. |
| 12.3. Bioaccumulative potential | Not available. |
| Bioconcentration factor (BCF) | Not available. |
| 12.4. Mobility in soil | Not available. |
| 12.5. Results of PBT and vPvB assessment | Not a PBT or vPvB substance or mixture. |
| 12.6. Other adverse effects | Not available. |

SECTION 13: Disposal considerations

13.1. Waste treatment methods

| | |
|-------------------------------------|--|
| Residual waste | Not available. |
| Contaminated packaging | Not available. |
| EU waste code | Not available. |
| Disposal methods/information | 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. |

SECTION 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

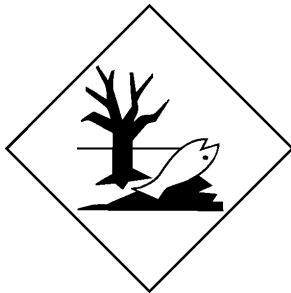
Proper shipping name Environmentally Hazardous Substance, Liquid, N.O.S. (Acrylates)
Hazard class 9
UN number 3082
Packing group III
Marine pollutant Yes

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

IATA; IMDG



ADR



SECTION 15: Regulatory information

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

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I

Not listed.

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex II

Not listed.

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V as amended

Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(1) Candidate List as currently published by ECHA

Not listed.

Authorizations

Regulation (EC) No. 143/2011 Annex XIV Substances Subject to Authorization

Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Not listed.

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work

Not regulated.

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding

Not regulated.

Other EU regulations

Directive 96/82/EC (Seveso II) on the control of major-accident hazards involving dangerous substances

Not regulated.

Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Proprietary initiator (CAS Proprietary)

Directive 94/33/EC on the protection of young people at work

Not regulated.

Other regulations

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.

Other information This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.

Specific Provisions: Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC (in the amended version OJ L 396 from 29.05.2007 page 3 with further rectifications and amendments).

National regulations Not available.

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

SECTION 16: Other information

References Not available.

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

Issue date 28-Aug-2013

Revision information 2. Hazards Identification: Shared US and Canadian Categories
Composition/Information on Ingredients
SECTION 8: Exposure controls/personal protection: - Hand protection

Training information Not available.

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.

Manufacturer information HP Inc.
1501 Page Mill Road
Palo Alto, CA 94304-1112 US
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 |

List of abbreviations Not available.

Safe Use of Mixture Information (SUMI)

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UV digital printing inks: UV01 *English*





Disclaimer

*This SUMI is a generic document for communicating conditions of safe use of a product in response to the REACH obligation. This document relates only to conditions of safe use and is not specific to a product. By adding this SUMI to a specific product SDS, the importer/formulator declares that the mixture can safely be used following the instructions below. Following occupational health legislation, the employer of workers remains responsible for communicating relevant use information to employees. When developing workplace instructions for employees, SUMI Sheets should always be considered in combination with the SDS and the label of the product. Derived No Effect Levels (DNEL) and Predicted No Effect Concentration (PNEC) values of substances derived from the Chemical Safety Assessment (CSA) will be given in section 8 of the SDS.
The REACH registration number(s), where applicable, completes an extended product SDS.*

Operational conditions

| | |
|------------------------------|---|
| Maximum duration | Up to 8 hours per day |
| Frequency of exposure | < 240 days per year |
| Process conditions | Covers use at ambient temperatures. Adequate ventilation should be provide for the areas where printing is performed. ANSI/ASHRAE Standard 62.1-2013 provides guidelines to ensure acceptable air quality in the workspace. Keep emissions below the occupational exposure limits of the ingredients specified in section 8 of the SDS. Avoid direct contact. Regular cleaning of equipment and work area. Supervision in place to check that Risk Management Measures are in place are being correctly used and Operational Conditions foll |

Risk management measures

| | |
|--|--|
| Conditions and measures related to Personal Protection Equipment, hygiene and health evaluation | <p>Wear safety glasses with side shields (or goggles), if splashing is possible. Wear appropriate chemical resistant gloves: see section 8 of the SDS. Wear appropriate chemical resistant clothing. Eye wash fountain and emergency showers are recommended. Avoid breathing mist/vapours. Avoid contact with skin, eyes and clothing. Training of workers in relation to proper use and maintenance of all Personal protection equipment (PPE) must be ensured.</p> <div style="display: flex; justify-content: space-around; align-items: center;">     </div> |
|--|--|

Good practice advice

| | |
|--|---|
| <p>Use personal protective equipment as required. Wash hands before breaks and after work. Keep good industrial hygiene and safety practice. Use only with adequate ventilation. Do no eat, drink or smoke when using this product. Wash contaminated clothing before reuse. Store in a well-ventilated place. Keep container tightly closed. Store at room temperature.</p> |   |
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Environmental measures

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 appropriately licenced waste contractor.

Use descriptors

IS-Use at industrial sites
PW-Widespread use by professional workers
SU7-Printing and reproduction media
PC18-Inks and Toners
PROC1-Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.
PROC2-Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions
PROC3- Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition
PROC8a-Transfer of substance or mixture (charging and discharging) at non-dedicated facilities
PROC8b-Transfer of substance or mixture (charging and discharging) at dedicated facilities
ERC5-Use at industrial site leading to inclusion into/onto article
ERC8c-Widespread use leading to inclusion into/onto article (indoor)

Additional information on product composition

In section 2 of the SDS as well as on the label, the classification of the mixture is provided.
The classification of the mixture is based on the individual ingredients and their concentration within the mixture.
All ingredients contributing to the classification are stated in Section 3 of the SDS.
Relevant limit values of ingredients on which the exposure assessment is based, are listed in section 8 of the SDS.
The product may contain sensitizing ingredients that may cause allergic reaction to certain people.
Section 2 of the SDS states these ingredients where applicable.
The product is classified as toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.