



SAFETY DATA SHEET

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

Important information *** This Safety Data Sheet is only authorised for use by HP for HP Original products. Any unauthorised use of this Safety Data Sheet is strictly prohibited and may result in legal action being taken by HP. ***

1.1. Product identifier

Trade name or designation of the mixture CQ123Series
Registration number -
UFI 70M1-SJAU-X30W-AVTX
Synonyms HP FB251 White Scitex Ink Cartridge
Issue date 17-Sep-2013
Version number 23
Revision date 01-Apr-2021
Supersedes date 31-Mar-2021

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Inkjet printing
Uses advised against None known.

1.3. Details of the supplier of the safety data sheet

HP Deutschland GmbH
Schickardstrasse 32
71034 Böblingen
Germany

Telephone + 49 7031 - 450 7000

HP Inc. health effects line

(Toll-free within the US) 1-800-457-4209
(Direct) 1-760-710-0048

HP Inc. Customer Care Line

(Toll-free within the US) 1-800-474-6836
(Direct) 1-208-323-2551

Email: hpcustomer.inquiries@hp.com

1.4 Emergency telephone number +49 (0) 89 1 92 40

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, the unborn child)	Category 2	H361fd - Suspected of damaging fertility. Suspected of damaging the unborn child.
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.
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2.2. Label elements

Material name: CQ123Series
12318 Version #: 23 Revision date: 01-Apr-2021 Issue date: 17-Sep-2013

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

Contains: 1-vinylhexahydro-2H-azepin-2-one, 2-phenoxyethyl acrylate, 2-propenoic Acid, (5-ethyl-1,3-dioxan-5-yl)methyl ester, Diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide

Hazard pictograms**Signal word**

Danger

Hazard statements

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
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.

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.
P312	Call a poison center/doctor if you feel unwell.
P391	Collect spillage.
P362	Take off contaminated clothing and wash before reuse.

Storage

P405	Store locked up.
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Disposal

P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
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Supplemental label information

None.

2.3. Other hazards

The classification of this mixture as a reproductive category 2 (H361) is based on the harmonized classification of diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide as mentioned in Annex VI of Regulation (EC) No.1272/2008.

Recent test data for diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide presented on the EU REACH Dossier suggest that classification as reproductive category 1B (H360) is more suitable. This would lead to mixture classification of the product as reproductive category 1B (H360).

The lead registrant has updated the REACH dossier and requested that the Swedish authority start the process of amending the harmonized classification. This SDS was updated according to guidance of the Swedish Chemicals Agency. Titanium dioxide is classified by IARC as a Group 2B carcinogen, meaning there is inadequate evidence in humans for the carcinogenicity of titanium dioxide, but there is sufficient evidence in experimental animals for the carcinogenicity of titanium dioxide. Exposure to titanium dioxide in this product is unlikely because it is a component of a liquid ink and is bound to other ink components.

Potential routes of exposure to this product are skin and eye contact, ingestion, and inhalation.

SECTION 3: Composition/information on ingredients**3.2. Mixtures****General information**

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
1-vinylhexahydro-2H-azepin-2-one	<25	2235-00-9 218-787-6	01-2119977109-27-XXXX	-	
Classification:	Acute Tox. 4;H302, Acute Tox. 4;H312, Skin Sens. 1B;H317, Eye Irrit. 2;H319, STOT RE 1;H372				

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
2-propenoic Acid, (5-ethyl-1,3-dioxan-5-yl)methyl ester	<25	66492-51-1 266-380-7	-	-	
Classification:	Skin Irrit. 2;H315, Skin Sens. 1B;H317, Aquatic Chronic 2;H411				
2-phenoxyethyl acrylate	<15	48145-04-6 256-360-6	01-2119980532-35-XXXX	-	
Classification:	Skin Sens. 1A;H317, Repr. 2;H361d, Aquatic Chronic 2;H411				
Diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide	<5	75980-60-8 278-355-8	01-2119972295-29-XXXX	015-203-00-X	
Classification:	Skin Sens. 1B;H317, Repr. 2;H361fd, Aquatic Chronic 2;H411				
2-[[[3-hydroxy-2,2-bis[[[(1-oxoallyl)oxy] methyl]propoxy]methyl]-2-[[[(1-oxoallyl) oxy]methyl]-1,3-propandiyldiacrylat	<2.5	1384855-91-7 800-838-4	01-2119980666-22-XXXX	-	
Classification:	Skin Sens. 1A;H317, Eye Irrit. 2;H319, Aquatic Chronic 3;H412				

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	In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention immediately.
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 (CO ₂). 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	No exposure limits noted for ingredient(s).
Biological limit values	No biological exposure limits noted for the ingredient(s).
Recommended monitoring procedures	Not available.

Derived no effect levels (DNELs)

Components	Type	Route	Value	Form
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-[[[3-hydroxy-2,2-bis[[[(1-oxoallyl)oxy]methyl]propoxy]methyl]-2-[[[(1-oxoallyl)oxy]methyl]-1,3-propandiyldiacrylat (CAS 1384855-91-7)	Industry	Dermal	0.5 mg/kg/day	
		Inhalation	1.76 mg/m3	
2-phenoxyethyl acrylate (CAS 48145-04-6)	Workers	Dermal	1.5 mg/kg	Systemic long term
		Inhalation	77 mg/m3	Local long term
		Inhalation	10 mg/m3	Systemic long term
Diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide (CAS 75980-60-8)	Workers	Dermal	0.233 mg/kg	Systemic long term
		Inhalation	0.822 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	
		Intermittent	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-phenoxyethyl acrylate (CAS 48145-04-6)	Not applicable	Freshwater	0.002 mg/l	
		Intermittent	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
Diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide (CAS 75980-60-8)	Not applicable	Freshwater	0.00353 mg/l	
		Intermittent	0.0353 mg/l	Releases
		Marine water	0.0005353 mg/l	
		Sediment	0.29 mg/kg	Freshwater
		Sediment	0.029 mg/kg	Marine water
		Soil	0.0557 mg/kg	

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.
Form	Liquid.
Color	White.
Odor	Characteristic.
Odor threshold	Not available.
pH	7.4 - 7.8 Metler Toledo pH Meter. Temperature 25°C
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.
Vapor density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	9.3 - 10.6 cP Brookfield Viscometer Temperature 50°C
Explosive properties	Not available.
Oxidizing properties	Not available.

9.2. Other information

Chemical family	Acrylate/Polymer/Pigment Blend
VOC	< 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.

Information on likely routes of exposure

Inhalation Inhalation may result in mild irritation to the respiratory system.

Skin contact Causes skin irritation. May cause sensitization by skin contact.

Eye contact Causes serious eye irritation.

Ingestion Ingestion is not a likely route of exposure.

Symptoms Not available.

11.1. Information on toxicological effects

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

Components	Species	Test Results
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1-vinylhexahydro-2H-azepin-2-one (CAS 2235-00-9)

Acute**Dermal**

LD50	Rabbit	1700 mg/kg
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Inhalation

LC50	Rat	> 1.6 mg/l
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Oral

LD50	Rat	1114 mg/kg
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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.

Reproductive toxicity Suspected of damaging fertility. Suspected of damaging the unborn child.

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.

Mixture versus substance information Not available.

Other information Complete toxicity data are not available for this specific formulation

SECTION 12: Ecological information**12.1. Toxicity**

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.

Components	Species	Test Results
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2-phenoxyethyl acrylate (CAS 48145-04-6)

Acute

EC10	Desmodesmus subcapitatus	0.71 mg/l, 72 h (DIN 38412 L9)
EC50	Desmodesmus subcapitatus	4.44 mg/l, 72 h (DIN 38412 L9)
LC50	Leuciscus idus	10 mg/l, 96 h (DIN 38 412)
NOEC	Desmodesmus subcapitatus	0.71 mg/l, 72 h (DIN 38412 L9)

Aquatic**Acute**

Crustacea	EC50	Daphnia magna	1.21 mg/l, 48 h (Directive CE 79/831/CEE, Annex V, Part C)
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Components	Species	Test Results
Diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide (CAS 75980-60-8)		
<i>Acute</i>		
	EC10	Pseudokirchneriella subcapitata 1.56 mg/l, 72 h (OECD 201)
	EC50	Pseudokirchneriella subcapitata > 2.01 mg/l, 72 h (OECD 201)
	LC50	Cyprinus carpio 1.4 mg/l, 96 h (OECD 203)
Aquatic		
<i>Acute</i>		
Crustacea	EC50	Daphnia magna 3.53 mg/l, 48 h (OECD 202)
12.2. Persistence and degradability	Not available.	
12.3. Bioaccumulative potential	Not available.	
Partition coefficient n-octanol/water (log Kow)	Not available.	
Bioconcentration factor (BCF)		
Diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide	72, (JIS K 0102-1986, 71 - Kanpogyo No .S, Yakuhatsu No . 615, 4 MITI/MHW Chemical Substance Control Law, Japan)	
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
Transport hazard class(es)	
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.

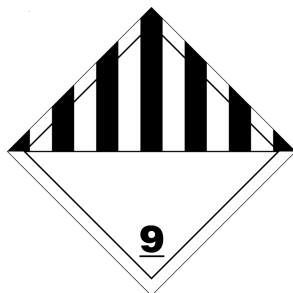
ADR

UN number	UN3082
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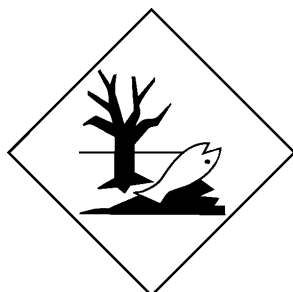
UN proper shipping name Environmentally Hazardous Substance, Liquid, N.O.S. (Acrylates)
Transport hazard class(es)
Class 9
Subsidiary risk -
Hazard No. (ADR) Not available.
Tunnel restriction code Not available.
Packing group III
Environmental hazards Yes
Special precautions for user Not available.

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

ADR; IATA; IMDG



Marine pollutant



Further information

Transport in bulk according to Annex II of MARPOL73/78 and the IBC code: Not applicable.

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 and II, as amended

Not listed.

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

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended

Not listed.

Regulation (EU) No. 649/2012 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, as amended

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA

Not listed.

Authorizations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended

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, as amended

Not listed.

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

Not listed.

Other regulations

The components of this product are reported in the following inventories: USA (TSCA), European Union, Canada, Japan, China, Australia, Korea.

Other information

This Safety Data Sheet complies with the requirements of Regulation (EU) 2015/830. Classification according to Regulation (EC) No 1272/2008 as amended.

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.

Water hazard class

AwSV

WGK3

15.2. Chemical safety assessment

See attached SUMI or GEIS document, if applicable.

SECTION 16: Other information

References

Regulation (EC) No. 1907/2006 of December 18, 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) and establishing a European Chemicals Agency (REACH).

Regulation (EU) 2015/830 of May 28, 2015 amending Regulation (EC) No. 1907/2006.

Regulation (EC) No. 1272/2008 of December 16, 2008 on classification, labeling and packaging of substances and mixtures, and amendments (CLP).

Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

Full text of any H-statements not written out in full under Sections 2 to 15

H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H361d Suspected of damaging the unborn child.
H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.
H372 Causes damage to organs through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

Revision information

None.

Training information

Follow training instructions when handling this material.

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.

This safety data sheet is meant to convey information about HP inks (toners) provided in HP Original ink (toner) supplies. If our Safety Data Sheet has been provided to you with a refilled, remanufactured, compatible or other non-HP Original supply please be aware that the information contained herein was not meant to convey information about such products and there could be considerable differences from information in this document and the safety information for the product you purchased. Please contact the seller of the refilled, remanufactured or compatible supplies for applicable information, including information on personal protective equipment, exposure risks and safe handling guidance. HP does not accept refilled, remanufactured or compatible supplies in our recycling programs.

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

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>
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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.