



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 CP515 Series
Registration number -
Synonyms HP Scitex FB221 Light Cyan Ink
Issue date 04-Sep-2013
Version number 04
Revision date 29-Jul-2016
Supersedes date 06-Dec-2013

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

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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Health hazards

Acute toxicity, oral	Category 4	
Skin corrosion/irritation	Category 2	H315 - Causes skin irritation.
Serious eye damage/eye irritation	Category 2	
Skin sensitization	Category 1	H317 - May cause an allergic skin reaction.
Specific target organ toxicity - single exposure	Category 3 respiratory tract irritation	H335 - May cause respiratory irritation.

Environmental hazards

Hazardous to the aquatic environment, long-term aquatic hazard	Category 3	H412 - Harmful to aquatic life with long lasting effects.
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2.2. Label elements

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

Contains: 1-vinylhexahydro-2H-azepin-2-one, 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one, Acrylate Ester, Acrylate ester, Acrylated Oligoamine Resin, Blue Pigment, Diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide, Fragrance, Neopentylglycol propoxylate diacrylate, Photo Initiator

Hazard pictograms



Signal word

Danger

Hazard statements

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H360	May damage fertility.
H360	May damage the unborn child.
H335	May cause respiratory irritation.
H373	May cause damage to organs (liver, nose) through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention

P280 - Wear protective gloves/protective clothing/eye protection/face protection.
Do not breathe fume/gas/mist/vapors/spray.
P271 - Use only outdoors or in a well-ventilated area.
P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
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.
P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312 - Call a POISON CENTER/doctor/physician if you feel unwell.
P362 - Take off contaminated clothing and wash before reuse.

Storage

P405 - Store locked up.
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.

Disposal

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
None.

Supplemental label information

2.3. Other hazards

Diphenyl (2,4,6-trimethylbenzoyl) phosphineoxide - In animal testing, risk of impaired fertility was shown only after repeated ingestion of very high doses of this substance.

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
Neopentylglycol propoxylate diacrylate	<30	84170-74-1	01-2119970213-43-XXXX	-	
Classification:	Skin Sens. 1B;H317, Aquatic Chronic 2;H411				
Acrylate ester	<25	Proprietary	-	-	
Classification:	Skin Sens. 1;H317, Eye Irrit. 2;H319				

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
1-vinylhexahydro-2H-azepin-2-one	<20	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				
Acrylate Ester	<20	Proprietary	-	-	
Classification:	Skin Irrit. 2;H315, Eye Irrit. 2;H319, STOT SE 3;H335, Aquatic Chronic 2;H411				
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	<5	71868-10-5 400-600-6	-	606-041-00-6	
Classification:	Acute Tox. 4;H302, Repr. 1B;H360FD, Aquatic Chronic 2;H411				
Acrylated Oligoamine Resin	<2.5	Proprietary	-	-	
Classification:	Skin Irrit. 2;H315, Eye Irrit. 2;H319				
Diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide	<2.5	75980-60-8 278-355-8	-	015-203-00-X	
Classification:	Skin Sens. 1B;H317, Repr. 2;H361f, Aquatic Chronic 2;H411				
Photo Initiator	<2.5	Proprietary	-	-	
Classification:	-				
Blue Pigment	<1	Proprietary	01-2119458771-32-XXXX	-	
Classification:	-				
Fragrance	<1	Proprietary	-	-	
Classification:	-				

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.

5.2. Special hazards arising from the substance or mixture Not available.

5.3. Advice for firefighters

Special protective equipment for firefighters Avoid runoff into storm sewers and ditches which lead to waterways.

Special fire fighting procedures Not available.

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.

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).

Recommended monitoring procedures

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

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
1-vinylhexahydro-2H-azepin-2-one (CAS 2235-00-9)	Workers	Dermal	0.7 mg/kg	Systemic long term
		Inhalation	4.9 mg/m ³	Systemic long term
		Inhalation	0.17 mg/m ³	Local long term
Acrylate ester (CAS Proprietary)	Workers	Dermal	0.8 mg/kg	Systemic long term
		Inhalation	16.2 mg/m ³	Systemic short term
Neopentylglycol propoxylate diacrylate (CAS 84170-74-1)	Workers	Dermal	3.33 mg/kg	Systemic long term
		Inhalation	11.75 mg/m ³	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	

Components	Type	Route	Value	Form
Acrylate ester (CAS Proprietary)	Not applicable	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
		Freshwater	0.00195 mg/l	
		Intermittant	0.0195 mg/l	Releases
		Marine water	0.000195 mg/l	
		Sediment	0.0082 mg/kg	Freshwater
		Sediment	0.00082 mg/kg	Marine water
		Soil	0.00587 mg/kg	
Neopentylglycol propoxylate diacrylate (CAS 84170-74-1)	Not applicable	STP	10 mg/l	Sewage Treatment Plant
		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

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.

- **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.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state Liquid.

Color Light Cyan

Odor Characteristic.

Odor threshold Not available.

pH Not applicable.

Melting point/freezing point Not available.

Initial boiling point and boiling range Not available.

Flash point > 149.0 °F (> 65.0 °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.

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	No relevant additional information available.
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	No data available.
Skin corrosion/irritation	Not available.
Serious eye damage/eye irritation	Not available.
Respiratory sensitization	Not available.
Skin sensitization	Not available.
Germ cell mutagenicity	Not available.
Carcinogenicity	Not available.
Reproductive toxicity	Not available.
Specific target organ toxicity - single exposure	Not available.
Specific target organ toxicity - repeated exposure	Not available.
Aspiration hazard	Not available.
Mixture versus substance information	Not available.
Other information	Complete toxicity data are not available for this specific formulation

SECTION 12: Ecological information

Aquatic toxicity	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
12.1. Toxicity	No toxicity data noted for the ingredient(s).
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)	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.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

ADR

Not regulated as dangerous goods.

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

2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one (CAS 71868-10-5)

Diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide (CAS 75980-60-8)

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.

National regulations

Not available.

15.2. Chemical safety assessment

See attached SUMI or GEIS document, if applicable.

Water hazard class

VwVwS

WGK1

SECTION 16: Other information

References

Not available.

Information on evaluation method leading to the classification of mixture

Not available.

Issue date

04-Sep-2013

Revision information

Composition/Information on Ingredients
SECTION 16: Other information: Disclaimer

Training information

Not available.

Disclaimer

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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

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.