



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 CD515 Series
Registration number -
Synonyms HP XP221 Cyan Scitex Ink
Issue date 12-May-2016
Version number 01

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

Identified uses Inkjet printing
Uses advised against None known.

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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 |
| Serious eye damage/eye irritation | Category 2 |
| Reproductive toxicity (fertility) | Category 2 |

2.2. Label elements

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

Contains: 2-phenoxyethyl Acrylate, Acrylate ester, Difunctional acrylic monomer, Diphenyl (2,4,6-trimethylbenzoyl) phosphine, Polyether Acrylate, Propiophenone derivative, Vinyl caprolactam (VCAP)

Hazard pictograms None.

Signal word None.

Hazard statements The mixture does not meet the criteria for classification.

Precautionary statements

Prevention Not available.

Response Not available.

Storage Not available.

Disposal Not available.

Supplemental label information None.

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.

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 | <50 | 48145-04-6 256-360-6 | - | - | |
| Classification: | Skin Sens. 1A;H317, Aquatic Chronic 2;H411 | | | | |
| Vinyl caprolactam (VCAP) | <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 | | | | |
| Polyether Acrylate | <15 | | - | - | |
| Classification: | - | | | | |
| Acrylate ester | <5 | Proprietary - | - | - | |
| Classification: | Skin Sens. 1A;H317, Eye Irrit. 2;H319, Aquatic Chronic 3;H412 | | | | |
| Difunctional acrylic monomer | <5 | 84170-74-1 - | 01-2119970213-43-XXXX | - | |
| Classification: | Skin Sens. 1B;H317, Aquatic Chronic 2;H411 | | | | |
| Diphenyl (2,4,6 - trimethylbenzoyl) phosphine | <5 | 75980-60-8 278-355-8 | - | 015-203-00-X | |
| Classification: | Skin Sens. 1B;H317, Repr. 2;H361f, Aquatic Chronic 2;H411 | | | | |
| Propiophenone derivative | <2.5 | 71868-10-5 400-600-6 | - | 606-041-00-6 | |
| Classification: | Acute Tox. 4;H302, Repr. 1B;H360FD, Aquatic Chronic 2;H411 | | | | |

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 area 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.

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.

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.

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 level (DNEL)

| Components | Type | Route | Value | Form |
|---|----------|------------|--------------------|--------------------|
| 2-phenoxyethyl Acrylate (CAS 48145-04-6) | Industry | Dermal | 1.5 mg/kg/day | |
| | | Inhalation | 10 mg/m3 | |
| | Workers | Dermal | 1.5 mg/kg | Systemic long term |
| | | Inhalation | 77 mg/m3 | Local long term |
| Acrylate ester (CAS Proprietary) | Industry | Inhalation | 10 mg/m3 | Systemic long term |
| | | Dermal | 0.5 mg/kg/day | |
| | Workers | Inhalation | 1.76 mg/m3 | |
| Dermal | | 3.33 mg/kg | Systemic long term | |
| Difunctional acrylic monomer (CAS 84170-74-1) | Workers | Inhalation | 11.75 mg/m3 | Systemic long term |
| | | Dermal | 0.7 mg/kg | Systemic long term |
| Vinyl caprolactam (VCAP) (CAS 2235-00-9) | Workers | Inhalation | 4.9 mg/m3 | Systemic long term |
| | | Inhalation | 0.17 mg/m3 | Local long term |
| | | Dermal | 0.7 mg/kg | Systemic long term |

Predicted no effect concentrations (PNECs)

| Components | Type | Route | Value | Form |
|--|----------------|--------------|-------------|--------------|
| 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 | |

| Components | Type | Route | Value | Form |
|---|----------------|--------------|--------------|------------------------|
| Difunctional acrylic monomer (CAS 84170-74-1) | Not applicable | STP | 1.77 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 | |
| Vinyl caprolactam (VCAP) (CAS 2235-00-9) | Not applicable | STP | 0.2 mg/l | Sewage Treatment Plant |
| | | 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 |

Exposure guidelines Exposure limits have not been established for this product.

8.2. Exposure controls

Appropriate engineering controls

Use in a well ventilated area.
Additional area ventilation or local exhaust may be required to maintain air concentrations below recommended exposure limits.

Individual protection measures, such as personal protective equipment

General information Not available.

Eye/face protection Not available.

Skin protection

- **Hand protection** Nitrile rubber.

- **Other** Not available.

Respiratory protection Not available.

Thermal hazards Not available.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. 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 Magenta

Odor Characteristic.

Odor threshold Not available.

pH Not applicable.

Melting point/freezing point Not determined.

Initial boiling point and boiling range Not determined.

Flash point Not available.

Evaporation rate Not determined.

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower (%) Not available.

Flammability limit - upper (%) Not available.

Vapor pressure Not determined.

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 determined |
| 9.2. Other information | |
| VOC (Weight %) | < 95 g/L |

SECTION 10: Stability and reactivity

| | |
|---|--|
| 10.1. Reactivity | Not available. |
| 10.2. Chemical stability | Stable under recommended 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 | oxidizing agents alkaline metals strong bases |
| 10.6. Hazardous decomposition products | Nitrogen oxides (NOx). Carbon monoxide 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

| | |
|--|---|
| 12.1. Toxicity | Not available. |
| 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.

Further information Not a dangerous good under DOT, IATA, ADR, IMDG, or RID.

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

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

Propiophenone derivative (CAS 71868-10-5)

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

Not regulated.

Other regulations

Notified according to EU Regulations.

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

12-May-2016

Revision information

SECTION 16: Other information: Disclaimer

Training information

Not available.

Disclaimer

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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 |

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> |   |
|--|---|

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.