



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 CP816Series
Registration number -
UFI 08QC-WX0D-030F-6H05
Synonyms HP HDR230 Yellow Scitex Ink Cartridge
Issue date 15-Apr-2015
Version number 10
Revision date 22-Apr-2021
Supersedes date 07-Dec-2020

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 Printing and Personal Systems Hellas EPE
1-3 Tzavella Str, 152 31 Halandri, 2nd Floor
Athens, Greece 152 31
Telephone +30 211 180 6900

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 +30 210 7793777

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. |
| 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 2 (liver, respiratory system) | H373 - May cause 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:** 1-vinylhexahydro-2H-azepin-2-one, 2-phenoxyethyl acrylate, Diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide**Hazard pictograms****Signal word** Warning**Hazard statements**

H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.
 H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H373 May cause 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.
 P270 Do not eat, drink or smoke when using this product.
 P264 Wash hands thoroughly after handling.
 P272 Contaminated work clothing should not be allowed out of the workplace.
 P273 Avoid release to the environment.

Response

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/physician if you feel unwell.
 P314 Get medical attention/advice if you feel unwell.
 P391 Collect spillage.
 P363 Wash contaminated clothing before reuse.

Storage

P405 Store locked up.

Disposal

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

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. 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 |
|--|---|-------------------------|------------------------|-----------|-------|
| Oxybis(methyl-2,1-ethanediyl) diacrylate | <25 | 57472-68-1 260-754-3 | 01-2119484629-21-XXXX | - | |
| Classification: | Skin Irrit. 2;H315, Skin Sens. 1;H317, Eye Dam. 1;H318 | | | | |
| 2-phenoxyethyl acrylate | <20 | 48145-04-6 256-360-6 | 01-2119980532-35-XXXX | - | |
| Classification: | Skin Sens. 1A;H317, Repr. 2;H361d, Aquatic Chronic 2;H411 | | | | |
| Glycerol, propoxylated, esters with acrylic acid | <15 | 52408-84-1 500-114-5 | 01-2119487948-12-XXXX | - | |
| Classification: | Skin Sens. 1;H317, Eye Irrit. 2;H319 | | | | |

| Chemical name | % | CAS-No. / EC No. | REACH Registration No. | Index No. | Notes |
|--|------|--------------------------|------------------------|--------------|-------|
| Propylidynetrimethanol, ethoxylated, esters with acrylic acid Classification: Skin Sens. 1;H317, Eye Dam. 1;H318 | <15 | 28961-43-5 - | - | - | |
| Dodecyl acrylate Classification: Skin Irrit. 2;H315, Skin Sens. 1;H317, Eye Irrit. 2;H319, STOT SE 3;H335, Aquatic Chronic 2;H411 | <10 | 2156-97-0 218-463-4 | 01-2119976296-23-XXXX | - | |
| 2-Propenoic acid-1,6-hexanediylester, polymer with disubstituted alkane Classification: Skin Irrit. 2;H315, Eye Irrit. 2;H319 | <7.5 | 67906-98-3 - | - | - | |
| 1-vinylhexahydro-2H-azepin-2-one Classification: Acute Tox. 4;H302, Acute Tox. 4;H312, Skin Sens. 1B;H317, Eye Irrit. 2;H319, STOT RE 1;H372 | <5 | 2235-00-9 218-787-6 | 01-2119977109-27-XXXX | - | |
| Diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide Classification: Skin Sens. 1B;H317, Repr. 2;H361fd, Aquatic Chronic 2;H411 | <5 | 75980-60-8 278-355-8 | 01-2119972295-29-XXXX | 015-203-00-X | |
| Phenyl, Bis(2,4,6-trimethylbenzoyl)-phosphine oxide Classification: Skin Sens. 1A;H317, Aquatic Chronic 4;H413 | <5 | 162881-26-7 423-340-5 | 01-2119489401-38-XXXX | 015-189-00-5 | |
| 1,6-Hexanediol Diacrylate Classification: Skin Irrit. 2;H315, Skin Sens. 1;H317, Eye Irrit. 2;H319 | <1 | 13048-33-4 235-921-9 | 01-2119484737-22-XXXX | 607-109-00-8 | |
| Propionic acid, 2-methyl-3,3'-(phenylphosphinylidene)di-, diallyl ester Classification: Skin Sens. 1;H317, Aquatic Chronic 2;H411 | <1 | 55818-57-0 500-130-2 | 01-2119490020-53-XXXX | - | |

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

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 Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.

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 |
|--|-----------|------------|-------------------------|---------------------|
| 1,6-Hexanediol Diacrylate (CAS 13048-33-4) | Consumers | Dermal | 1.66 mg/kg | Systemic long term |
| | | Inhalation | 7.24 mg/m ³ | Systemic long term |
| | | Oral | 2.08 mg/kg | Systemic long term |
| | Workers | Dermal | 2.77 mg/kg | Systemic long term |
| | | Inhalation | 24.48 mg/m ³ | Systemic long term |
| 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 |
| 2-phenoxyethyl acrylate (CAS 48145-04-6) | Workers | Dermal | 1.5 mg/kg | Systemic long term |
| | | Inhalation | 77 mg/m ³ | Local long term |
| | | Inhalation | 10 mg/m ³ | 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/m ³ | Systemic long term |
| Dodecyl acrylate (CAS 2156-97-0) | Workers | Dermal | 138.9 mg/kg | Systemic long term |
| | | Inhalation | 97.9 mg/m ³ | Systemic long term |
| Glycerol, propoxylated, esters with acrylic acid (CAS 52408-84-1) | Workers | Dermal | 1.92 mg/kg | Systemic long term |
| | | Inhalation | 3.7 mg/m ³ | Systemic long term |
| Oxybis(methyl-2,1-ethanediyl) diacrylate (CAS 57472-68-1) | Workers | Dermal | 2.77 mg/kg | Systemic long term |
| | | Inhalation | 24.48 mg/m ³ | Systemic short term |
| Phenyl, Bis(2,4,6-trimethylbenzoyl)-phosphine oxide (CAS 162881-26-7) | Workers | Dermal | 3.3 mg/kg | Systemic long term |
| | | Inhalation | 3.3 mg/kg | Systemic long term |
| | Workers | Dermal | 3.3 mg/kg | Systemic short term |
| | | Inhalation | 7.8 mg/m ³ | Systemic long term |
| Propionic acid, 2-methyl-3,3'-(phenylphosphinylidene)di-, diallyl ester (CAS 55818-57-0) | Workers | Inhalation | 7.8 mg/m ³ | Systemic short term |
| | | Dermal | 17.5 mg/kg | Systemic long term |

| Components | Type | Route | Value | Form | |
|--|----------------|--------------|----------------|------------------------|--|
| | | Inhalation | 122.5 mg/m3 | Systemic long term | |
| Predicted no effect concentrations (PNECs) | | | | | |
| Components | Type | Route | Value | Form | |
| 1,6-Hexanediol Diacrylate (CAS 13048-33-4) | Not applicable | Freshwater | 0.0015 mg/l | | |
| | | Marine water | 0.00015 mg/l | | |
| | | Sediment | 0.0243 mg/kg | Freshwater | |
| | | Sediment | 0.00243 mg/kg | Marine water | |
| | | Soil | 0.00397 mg/kg | | |
| | | STP | 2.7 mg/l | Sewage Treatment Plant | |
| 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 | | |
| | | | | | |
| | | | | | |
| Dodecyl acrylate (CAS 2156-97-0) | Not applicable | Freshwater | 0.495 mg/l | | |
| | | Intermittent | 0.52 mg/l | Releases | |
| | | Marine water | 0.05 mg/l | | |
| | | Sediment | 1245.42 mg/kg | Freshwater | |
| | | Sediment | 124.54 mg/kg | Marine water | |
| | | Soil | 248.09 mg/kg | | |
| | | STP | 1000 mg/l | Sewage Treatment Plant | |
| | | | | | |
| Glycerol, propoxylated, esters with acrylic acid (CAS 52408-84-1) | Not applicable | Freshwater | 0.00574 mg/l | | |
| | | Intermittent | 0.0574 mg/l | Releases | |
| | | Marine water | 0.01697 mg/kg | | |
| | | Sediment | 0.001697 mg/kg | Marine water | |
| | | Soil | 0.00111 mg/kg | | |
| | | STP | 10 mg/l | Sewage Treatment Plant | |
| Oxybis(methyl-2,1-ethanediyl) diacrylate (CAS 57472-68-1) | Not applicable | Freshwater | 0.0034 mg/l | | |
| | | Intermittent | 0.034 mg/l | Releases | |
| | | Marine water | 0.00034 mg/l | | |
| | | Sediment | 0.00884 mg/kg | Freshwater | |
| | | Soil | 0.0013 mg/kg | | |
| | | STP | 100 mg/l | Sewage Treatment Plant | |
| | | | | | |
| | | | | | |
| Phenyl, Bis(2,4,6-trimethylbenzoyl)-phosphine oxide (CAS 162881-26-7) | Not applicable | Freshwater | 0.8 mg/l | | |
| | | Intermittent | 0.8 mg/l | Releases | |
| | | Marine water | 0.8 mg/l | | |
| | | STP | 1 mg/l | Sewage Treatment Plant | |
| Propionic acid, 2-methyl-3,3'-(phenylphosphinylidene)di-, diallyl ester (CAS 55818-57-0) | Not applicable | Freshwater | 0.1 mg/l | | |
| | | | | | |

| Components | Type | Route | Value | Form |
|--|--|--------------|------------|------------------------|
| | | Intermittent | 1 mg/l | Releases |
| | | Marine water | 0.01 mg/l | |
| | | Sediment | 35.8 mg/kg | Freshwater |
| | | Sediment | 3.58 mg/kg | Marine water |
| | | Soil | 7.1 mg/kg | |
| | | STP | 10 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 | Recommended gloves: Nitrile 6 mil minimum thickness. 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. | | | |
| 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 | Yellow |
| Odor | Characteristic. |
| Odor threshold | Not available. |
| pH | 6.8 - 7.2 Metler Toledo pH Meter. Temperature 25°C |
| Melting point/freezing point | Not available. |
| Initial boiling point and boiling range | Not available. |
| Flash point | > 285.8 °F (> 141.0 °C) Pensky-Martens Closed Cup EPA Method 1020 Estimated |
| 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 | 12.5 - 13.5 cP Cone and Plate Rheometer, Temperature 50°C. C60/1° Sensor. Values recorded at 4000 1/s. |

| | |
|-------------------------------|--|
| Explosive properties | Not available. |
| Oxidizing properties | Not available. |
| 9.2. Other information | |
| VOC | 18 g/l Method 24/ASTM D5409-93 Estimated |

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 | Contact with eyes may result in mild 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 |
|-------------------|----------------|---------------------|
|-------------------|----------------|---------------------|

1-vinylhexahydro-2H-azepin-2-one (CAS 2235-00-9)

Acute

Dermal

| | | |
|------|--------|------------|
| LD50 | Rabbit | 1700 mg/kg |
|------|--------|------------|

Inhalation

| | | |
|------|-----|------------|
| LC50 | Rat | > 1.6 mg/l |
|------|-----|------------|

Oral

| | | |
|------|-----|------------|
| LD50 | Rat | 1114 mg/kg |
|------|-----|------------|

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye irritation Based on available data, the classification criteria are not met. Non-corrosive. Not a known irritant. (OECD 437)

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 the unborn child. 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 May cause 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 |
|--|-------|---------------------------------|--|
| 2-phenoxyethyl acrylate (CAS 48145-04-6) | | | |
| <i>Acute</i> | | | |
| | 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 | | | |
| <i>Acute</i> | | | |
| Crustacea | EC50 | Daphnia magna | 1.21 mg/l, 48 h (Directive CE 79/831/CEE, Annex V, Part C) |
| 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) |
| Dodecyl acrylate (CAS 2156-97-0) | | | |
| <i>Acute</i> | | | |
| | ErC50 | Pseudokirchneriella subcapitata | > 0.274 µg/l, 72 h (OECD 201) |
| | LC50 | Leuciscus idus | 460 mg/l, 96 h (DIN 38 412, part L 15, 1982) |
| | NOEC | Leuciscus idus | 215 mg/l, 96 h (DIN 38 412, part L 15, 1982) |
| <i>Chronic</i> | | | |
| | LOEC | Daphnia magna | > 0.25 µg/l, 21 d (OECD 211) |
| Aquatic | | | |
| <i>Chronic</i> | | | |
| Crustacea | NOEC | Daphnia magna | 0.25 µg/l, 21 d (OECD 211) |
| Fish | LOEC | Danio rerio | > 1 µg/l, 36 d (OECD 210) |
| Phenyl, Bis(2,4,6-trimethylbenzoyl)-phosphine oxide (CAS 162881-26-7) | | | |
| <i>Acute</i> | | | |
| | EC50 | Desmodesmus subspicatus | > 260 µg/l, 72 h (OECD 201) |
| | LC50 | Danio rerio | > 90 µg/l, 96 h (OECD 203) |
| | NOEC | Desmodesmus subspicatus | > 260 µg/l, 72 h (OECD 201) |
| Aquatic | | | |
| <i>Acute</i> | | | |
| Crustacea | EC50 | Daphnia magna | > 1175 µg/l, 48 h (OECD 202) |
| <i>Chronic</i> | | | |
| Crustacea | NOEC | Daphnia magna | >= 8.1 µg/l, 21 d (OECD 211) |
| Propionic acid, 2-methyl-3,3'-(phenylphosphinylidene)di-, diallyl ester (CAS 55818-57-0) | | | |
| <i>Acute</i> | | | |
| | EC50 | Pseudokirchneriella subcapitata | 105 mg/l, 72 h (OECD 201) |
| | LC50 | Cyprinus carpio | > 0.082 mg/l, 96 h (OECD 203) |
| | NOEC | Pseudokirchneriella subcapitata | 29 mg/l, 72 h (OECD 201) |
| Aquatic | | | |
| <i>Acute</i> | | | |
| Crustacea | EC50 | Daphnia magna | > 16 mg/l, 48 h (OECD 202) |
| | NOEC | Daphnia magna | > 16 mg/l, 48 h (OECD 202) |
| <i>Chronic</i> | | | |
| Crustacea | EC10 | Daphnia magna | > 0.51 mg/l, 21 d (OECD 211) |
| | NOEC | Daphnia magna | > 0.51 mg/l, 21 d (OECD 211) |

| Components | Species | Test Results |
|--|---|---|
| Fish | EC10 | Pimephales promelas 0.43 mg/l, 33 d (OECD 210) |
| | NOEC | Pimephales promelas 0.25 mg/l, 33 d (OECD 210) |
| 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, Yakuhatu No . 615, 4 MITI/MHW Chemical Substance Control Law, Japan) | |
| Dodecyl acrylate | 2.34, (EPA Epiwin (v.4.11)) | |
| Phenyl, Bis(2,4,6-trimethylbenzoyl)-phosphine oxide | 5, (similar to OECD 305 C) | |
| 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

| | |
|-------------------------------------|---|
| 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 |
| Special precautions for user | Not available. |
| 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. |

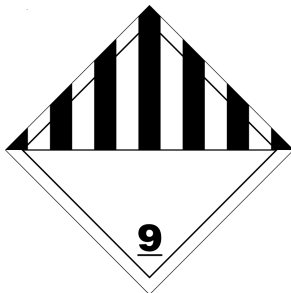
IMDG

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

ADR

| | |
|-------------------------------------|---|
| UN number | UN3082 |
| 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; DOT; IATA; IMDG



Marine pollutant



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

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 (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.

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.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H335 May cause respiratory 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.
H413 May cause long lasting harmful effects to aquatic life.

Revision information

3. Composition / Information on Ingredients: Disclosure Overrides

Training information

Follow training instructions when handling this material.

Disclaimer

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. 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.

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)

--

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.