



# 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 TestATNseries  
Registration number -  
Synonyms HP FB210 Black Scitex Ink  
Issue date 03-Mar-2018  
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.

### 1.3. Details of the supplier of the safety data sheet

HP Norge AS  
Rolfsbuktveien 4B, Floor 6A Oslo  
Norway 1364  
Telephone (+47) 24097000

### 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 +47 22 59 13 00

## 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 1B                             | H360FD - May damage fertility. May damage the unborn child.                                        |
| Specific target organ toxicity - single exposure    | Category 3 respiratory tract irritation | H335 - May cause respiratory irritation.                                                           |
| Specific target organ toxicity - repeated exposure  | Category 1 (liver, respiratory system)  | H372 - Causes damage to organs (liver, respiratory system) through prolonged or repeated exposure. |

#### Environmental hazards

|                                                                |            |                                                         |
|----------------------------------------------------------------|------------|---------------------------------------------------------|
| Hazardous to the aquatic environment, long-term aquatic hazard | Category 2 | H411 - Toxic to aquatic life with long lasting effects. |
|----------------------------------------------------------------|------------|---------------------------------------------------------|

### 2.2. Label elements

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

**Contains:** 1-butanol, 1-vinylhexahydro-2H-azepin-2-one, 2-phenoxyethyl acrylate, 4-Methoxyphenol, Carbon Black Test, Diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide, Dodecyl acrylate, Genorad 16 Proprietary Stabilizer, Phenyl, Bis(2,4,6-trimethylbenzoyl)-phosphine oxide, Propoxylated glycerol triacrylate, Propylidynetrimethanol, ethoxylated esters with acrylic acid, Reaction mass of Decyl acrylate and Octyl acrylate, TRADE SECRET, Vinylester resin

## Hazard pictograms



## Signal word

Danger

## Hazard statements

|        |                                                                                             |
|--------|---------------------------------------------------------------------------------------------|
| H315   | Causes skin irritation.                                                                     |
| H319   | Causes serious eye irritation.                                                              |
| H317   | May cause an allergic skin reaction.                                                        |
| H360FD | May damage fertility. May damage the unborn child.                                          |
| H335   | May cause respiratory irritation.                                                           |
| 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

|      |                                                                            |
|------|----------------------------------------------------------------------------|
| P201 | Obtain special instructions before use.                                    |
| P201 | Obtain special instructions before use.                                    |
| P202 | Do not handle until all safety precautions have been read and understood.  |
| P260 | Do not breathe dust/fume/gas/mist/vapors/spray.                            |
| P273 | Avoid release to the environment.                                          |
| P260 | Do not breathe mist or vapor.                                              |
| P264 | Wash thoroughly after handling.                                            |
| P270 | Do not eat, drink or smoke when using this product.                        |
| P271 | Use only outdoors or in a well-ventilated area.                            |
| P272 | Contaminated work clothing should not be allowed out of the workplace.     |
| P273 | Avoid release to the environment.                                          |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P270 | Do not eat, drink or smoke when using this product.                        |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P271 | Use only outdoors or in a well-ventilated area.                            |
| P202 | Do not handle until all safety precautions have been read and understood.  |
| P264 | Wash hands thoroughly after handling.                                      |

### Response

|                    |                                                                                                                                  |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------|
| P304 + P340        | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.                                 |
| P302 + P352        | IF ON SKIN: Wash with plenty of water.                                                                                           |
| P337 + P313        | If eye irritation persists: Get medical advice/attention.                                                                        |
| P304 + P340        | IF INHALED: Remove person to fresh air and keep comfortable for breathing.                                                       |
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P308 + P313        | IF exposed or concerned: Get medical advice/attention.                                                                           |
| P312               | Call a POISON CENTER/doctor if you feel unwell.                                                                                  |
| P333 + P313        | If skin irritation or rash occurs: Get medical advice/attention.                                                                 |
| P337 + P313        | If eye irritation persists: Get medical advice/attention.                                                                        |
| P362 + P364        | Take off contaminated clothing and wash it before reuse.                                                                         |
| P391               | Collect spillage.                                                                                                                |
| P333 + P313        | If skin irritation or rash occurs: Get medical advice/attention.                                                                 |
| P391               | Collect spillage.                                                                                                                |
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P302 + P352        | IF ON SKIN: Wash with plenty of soap and water.                                                                                  |
| P308 + P313        | IF exposed or concerned: Get medical attention/advice.                                                                           |
| P312               | Call a POISON CENTER/doctor/physician if you feel unwell.                                                                        |
| P362               | Take off contaminated clothing and wash before reuse.                                                                            |

### Storage

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

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

Carbon black is classified by the IARC as a Group 2B carcinogen (the substance is possibly carcinogenic to humans). Carbon black in this preparation, due to its bound form, does not present this carcinogenic risk. None of the other ingredients in this preparation are classified as carcinogens according to ACGIH, EU, IARC, MAK, NTP or OSHA.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### General information

| Chemical name                                                | %                                                                                                         | CAS-No. / EC No.         | REACH Registration No. | Index No.    | Notes |
|--------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|--------------------------|------------------------|--------------|-------|
| TRADE SECRET                                                 | <25                                                                                                       | Proprietary              | -                      | -            |       |
| <b>Classification:</b>                                       | Skin Irrit. 2;H315, Skin Sens. 1;H317, Eye Dam. 1;H318                                                    |                          |                        |              |       |
| 2-phenoxyethyl acrylate                                      | <20                                                                                                       | 48145-04-6<br>256-360-6  | 01-2119980532-35-XXXX  | -            |       |
| <b>Classification:</b>                                       | Skin Sens. 1A;H317, Aquatic Chronic 2;H411                                                                |                          |                        |              |       |
| Propoxylated glycerol triacrylate                            | <15                                                                                                       | 52408-84-1<br>500-114-5  | 01-2119487948-12-0010  | -            |       |
| <b>Classification:</b>                                       | Skin Sens. 1;H317, Eye Irrit. 2;H319                                                                      |                          |                        |              |       |
| Propylidynetrimethanol, ethoxylated esters with acrylic acid | <15                                                                                                       | 28961-43-5               | -                      | -            |       |
| <b>Classification:</b>                                       | Eye Irrit. 2;H319                                                                                         |                          |                        |              |       |
| Dodecyl acrylate                                             | <10                                                                                                       | 2156-97-0<br>218-463-4   | 01-2119976296-23-XXXX  | -            |       |
| <b>Classification:</b>                                       | Skin Irrit. 2;H315, Eye Irrit. 2;H319, STOT SE 3;H335, Aquatic Chronic 2;H411                             |                          |                        |              |       |
| Carbon Black Test                                            | <7.5                                                                                                      | Mixture                  | -                      | -            |       |
| <b>Classification:</b>                                       | -                                                                                                         |                          |                        |              |       |
| 1-vinylhexahydro-2H-azepin-2-one                             | <5                                                                                                        | 2235-00-9<br>218-787-6   | 01-2119977109-27-XXXX  | -            |       |
| <b>Classification:</b>                                       | Acute Tox. 4;H302, Acute Tox. 4;H312, Skin Sens. 1B;H317, Eye Irrit. 2;H319, STOT RE 1;H372               |                          |                        |              |       |
| Diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide            | <5                                                                                                        | 75980-60-8<br>278-355-8  | 01-2119972295-29-XXXX  | 015-203-00-X |       |
| <b>Classification:</b>                                       | Skin Sens. 1B;H317, Repr. 2;H361f, Aquatic Chronic 2;H411                                                 |                          |                        |              |       |
| Phenyl, Bis(2,4,6-trimethylbenzoyl)-phosphine oxide          | <1                                                                                                        | 162881-26-7<br>423-340-5 | -                      | 015-189-00-5 |       |
| <b>Classification:</b>                                       | Skin Sens. 1A;H317, Aquatic Chronic 4;H413                                                                |                          |                        |              |       |
| Vinylester resin                                             | <1                                                                                                        | 500-130-2                | -                      | -            |       |
| <b>Classification:</b>                                       | Skin Sens. 1;H317                                                                                         |                          |                        |              |       |
| 1-butanol                                                    | <0.1                                                                                                      | 71-36-3<br>200-751-6     | -                      | 603-004-00-6 |       |
| <b>Classification:</b>                                       | Flam. Liq. 3;H226, Acute Tox. 4;H302, Skin Irrit. 2;H315, Eye Dam. 1;H318, STOT SE 3;H335, STOT SE 3;H336 |                          |                        |              |       |
| 4-Methoxyphenol                                              | <0.1                                                                                                      | 150-76-5<br>205-769-8    | -                      | 604-044-00-7 |       |
| <b>Classification:</b>                                       | Acute Tox. 4;H302, Skin Sens. 1;H317, Eye Irrit. 2;H319                                                   |                          |                        |              |       |

| Chemical name                                      | %                                                                                                 | CAS-No. / EC No. | REACH Registration No. | Index No. | Notes |
|----------------------------------------------------|---------------------------------------------------------------------------------------------------|------------------|------------------------|-----------|-------|
| Genorad 16 Proprietary Stabilizer                  | <0.1                                                                                              | Proprietary      | -                      | -         |       |
| <b>Classification:</b>                             | Aquatic Chronic 1;H410                                                                            |                  |                        |           |       |
| Reaction mass of Decyl acrylate and Octyl acrylate | <0.1                                                                                              | Not available    | -                      | -         |       |
| <b>Classification:</b>                             | Skin Irrit. 2;H315, Skin Sens. 1B;H317, Eye Irrit. 2;H319, STOT SE 3;H335, Aquatic Chronic 1;H410 |                  |                        |           |       |

## SECTION 4: First aid measures

**General information** Not available.

### 4.1. Description of first aid measures

|                     |                                                                                                                                                                                                 |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Inhalation</b>   | Move to fresh air. If symptoms persist, get medical attention.                                                                                                                                  |
| <b>Skin contact</b> | Wash affected areas thoroughly with mild soap and water. If irritation persists get medical attention.                                                                                          |
| <b>Eye contact</b>  | 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. |
| <b>Ingestion</b>    | 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

|                                       |                                                                                              |
|---------------------------------------|----------------------------------------------------------------------------------------------|
| <b>Suitable extinguishing media</b>   | Dry powder. Carbon dioxide (CO <sub>2</sub> ). Water may be ineffective.                     |
| <b>Unsuitable extinguishing media</b> | 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

|                                                      |                                                                     |
|------------------------------------------------------|---------------------------------------------------------------------|
| <b>Special protective equipment for firefighters</b> | Not available.                                                      |
| <b>Special fire fighting procedures</b>              | 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

|                                    |                                                                                                |
|------------------------------------|------------------------------------------------------------------------------------------------|
| <b>For non-emergency personnel</b> | Wear appropriate personal protective equipment. Do not touch or walk through spilled material. |
| <b>For emergency responders</b>    | 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

##### Norway. Administrative Norms for Contaminants in the Workplace

| Components                     | Type    | Value              |
|--------------------------------|---------|--------------------|
| 1-butanol (CAS 71-36-3)        | Ceiling | 75 mg/m3<br>25 ppm |
| 4-Methoxyphenol (CAS 150-76-5) | TLV     | 5 mg/m3            |

**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 |
| 2-phenoxyethyl acrylate (CAS 48145-04-6)                           | Workers | Inhalation | 0.17 mg/m3  | Local long term    |
|                                                                    |         | Dermal     | 1.5 mg/kg   | Systemic long term |
|                                                                    |         | Inhalation | 77 mg/m3    | Local long term    |
| Diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide (CAS 75980-60-8) | Workers | Inhalation | 10 mg/m3    | Systemic long term |
|                                                                    |         | Dermal     | 1 mg/kg     | Systemic long term |
| Dodecyl acrylate (CAS 2156-97-0)                                   | Workers | Inhalation | 3.5 mg/m3   | Systemic long term |
|                                                                    |         | Dermal     | 138.9 mg/kg | Systemic long term |
| Propoxylated glycerol triacrylate (CAS 52408-84-1)                 | Workers | Inhalation | 97.9 mg/m3  | Systemic long term |
|                                                                    |         | Dermal     | 1.92 mg/kg  | Systemic long term |
|                                                                    |         | Inhalation | 16.22 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   |                        |
|                                                                    |                | STP          | 1000 mg/l      | Sewage Treatment Plant |
| 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 |

| Components                                         | Type           | Route        | Value          | Form                   |
|----------------------------------------------------|----------------|--------------|----------------|------------------------|
| Propoxylated glycerol triacrylate (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 |

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

**Norway Exposure Limit Values: Skin designation**

1-butanol (CAS 71-36-3)

Can be absorbed through the skin.

**8.2. Exposure controls**

**Appropriate engineering controls** 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** 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** Black.

**Odor** Characteristic.

**Odor threshold** Not available.

**pH** Not available.

**Melting point/freezing point** Not available.

**Initial boiling point and boiling range** Not available.

**Flash point** > 212.0 °F (> 100.0 °C) Closed Cup EPA Method 1020

**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.

|                                  |                                  |
|----------------------------------|----------------------------------|
| <b>Decomposition temperature</b> | Not available.                   |
| <b>Viscosity</b>                 | Not available.                   |
| <b>Explosive properties</b>      | Not available.                   |
| <b>Oxidizing properties</b>      | Not available.                   |
| <b>9.2. Other information</b>    |                                  |
| <b>VOC</b>                       | < 95 g/L Method 24/ASTM D5409-93 |

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## SECTION 10: Stability and reactivity

|                                                 |                                                                                                                                               |
|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>10.1. Reactivity</b>                         | Not available.                                                                                                                                |
| <b>10.2. Chemical stability</b>                 | Stable under normal storage conditions.                                                                                                       |
| <b>10.3. Possibility of hazardous reactions</b> | Hazardous polymerization can occur with decreased inhibitor content.                                                                          |
| <b>10.4. Conditions to avoid</b>                | Exposure to sunlight.                                                                                                                         |
| <b>10.5. Incompatible materials</b>             | Incompatible with strong bases and oxidizing agents. alkaline metals                                                                          |
| <b>10.6. Hazardous decomposition products</b>   | Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. |

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## SECTION 11: Toxicological information

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General information</b>                                | Not available.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Information on likely routes of exposure</b>           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Inhalation</b>                                         | Not available.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Skin contact</b>                                       | Not available.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Eye contact</b>                                        | Not available.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Ingestion</b>                                          | Not available.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Symptoms</b>                                           | Not available.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>11.1. Information on toxicological effects</b>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Acute toxicity</b>                                     | Based on available data, the classification criteria are not met.                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Skin corrosion/irritation</b>                          | Causes skin irritation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Serious eye damage/eye irritation</b>                  | Causes serious eye irritation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Respiratory sensitization</b>                          | Based on available data, the classification criteria are not met.                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Skin sensitization</b>                                 | May cause sensitization by skin contact.                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Germ cell mutagenicity</b>                             | Based on available data, the classification criteria are not met.                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Carcinogenicity</b>                                    | Based on available data, the classification criteria are not met.<br><br>Carbon black is classified as a carcinogen by the IARC (possibly carcinogenic to humans, Group 2B) and by the State of California under Proposition 65. In their evaluations of carbon black, both organizations indicate that exposure to carbon black, per se, does not occur when it remains bound within a product matrix, specifically, rubber, ink, or paint. Carbon black is present only in a bound form in this preparation. |
| <b>Reproductive toxicity</b>                              | May damage fertility. May damage the unborn child.                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Specific target organ toxicity - single exposure</b>   | May cause irritation to the respiratory system.                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Specific target organ toxicity - repeated exposure</b> | Causes damage to organs (liver, respiratory system) through prolonged or repeated exposure.                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Aspiration hazard</b>                                  | Based on available data, the classification criteria are not met.                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Mixture versus substance information</b>               | Not available.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Other information</b>                                  | Complete toxicity data are not available for this specific formulation                                                                                                                                                                                                                                                                                                                                                                                                                                         |

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## SECTION 12: Ecological information

|                                            |                                                                                                                                                      |
|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>12.1. Toxicity</b>                      | No toxicity data noted for the ingredient(s).                                                                                                        |
| <b>Aquatic toxicity</b>                    | Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. This product has not been tested for ecological effects. |
| <b>12.2. Persistence and degradability</b> | Not available.                                                                                                                                       |
| <b>12.3. Bioaccumulative potential</b>     | Not available.                                                                                                                                       |

|                                                            |      |
|------------------------------------------------------------|------|
| <b>Partition coefficient<br/>n-octanol/water (log Kow)</b> |      |
| 1-butanol                                                  | 0.88 |
| 4-Methoxyphenol                                            | 1.58 |

|                                                         |                                         |
|---------------------------------------------------------|-----------------------------------------|
| <b>Bioconcentration factor (BCF)</b>                    | Not available.                          |
| <b>12.4. Mobility in soil</b>                           | Not available.                          |
| <b>12.5. Results of PBT<br/>and vPvB<br/>assessment</b> | Not a PBT or vPvB substance or mixture. |
| <b>12.6. Other adverse effects</b>                      | Not available.                          |

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## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

|                                     |                                                                                                                                                                                                                                                                                                                        |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Residual waste</b>               | Not available.                                                                                                                                                                                                                                                                                                         |
| <b>Contaminated packaging</b>       | Not available.                                                                                                                                                                                                                                                                                                         |
| <b>EU waste code</b>                | Not available.                                                                                                                                                                                                                                                                                                         |
| <b>Disposal methods/information</b> | Do not dispose of together with general office waste.<br>Do not allow this material to drain into sewers/water supplies.<br>Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.<br>Ensure collection and disposal with an appropriately licensed waste contractor. |

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## 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

|                                     |                                                                                           |
|-------------------------------------|-------------------------------------------------------------------------------------------|
| <b>UN number</b>                    | UN3082                                                                                    |
| <b>UN proper shipping name</b>      | Environmentally Hazardous Substance, Liquid, N.O.S. (Acrylates, Propiophenone derivative) |
| <b>Transport hazard class(es)</b>   |                                                                                           |
| <b>Class</b>                        | 9                                                                                         |
| <b>Subsidiary risk</b>              | -                                                                                         |
| <b>Packing group</b>                | III                                                                                       |
| <b>Environmental hazards</b>        | Yes                                                                                       |
| <b>Special precautions for user</b> | Not available.                                                                            |

**IATA Supplemental Information** When shipping ≤ 5L inner packaging, Special Provision A197 may apply.

### IMDG

|                                     |                                                                                                                |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------|
| <b>UN number</b>                    | UN3082                                                                                                         |
| <b>UN proper shipping name</b>      | Environmentally Hazardous Substance, Liquid, N.O.S. (Acrylates, Propiophenone derivative),<br>MARINE POLLUTANT |
| <b>Transport hazard class(es)</b>   |                                                                                                                |
| <b>Class</b>                        | 9                                                                                                              |
| <b>Subsidiary risk</b>              | -                                                                                                              |
| <b>Packing group</b>                | III                                                                                                            |
| <b>Transport hazard class(es)</b>   |                                                                                                                |
| <b>Marine pollutant</b>             | Yes                                                                                                            |
| <b>EmS</b>                          | F-A, S-F                                                                                                       |
| <b>Special precautions for user</b> | Not available.                                                                                                 |

**IMDG Supplemental Information** When shipping ≤ 5L containers, IMDG 2.10.2.7 may apply.

### ADR

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

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



ADR; IATA; IMDG



Marine pollutant



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## 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 (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**

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.

#### Other EU regulations

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

1-butanol (CAS 71-36-3)

**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).

**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.

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**SECTION 16: Other information****References**

Not available.

**Information on evaluation method leading to the classification of mixture**

Not available.

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

H226 Flammable liquid and vapor.  
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.  
H336 May cause drowsiness or dizziness.  
H361f Suspected of damaging fertility.  
H372 Causes damage to organs through prolonged or repeated exposure.  
H410 Very toxic to aquatic life with long lasting effects.  
H411 Toxic to aquatic life with long lasting effects.  
H413 May cause long lasting harmful effects to aquatic life.

**Revision information**

None.

**Training information**

Not available.

**Disclaimer**

This Safety Data Sheet document is provided without charge to customers of HP. Data is the most current known to HP at the time of preparation of this document and is believed to be accurate. It should not be construed as guaranteeing specific properties of the products as described or suitability for a particular application. This document was prepared to the requirements of the jurisdiction specified in Section 1 above and may not meet regulatory requirements in other countries.

## Explanation of abbreviations

|               |                                                                     |
|---------------|---------------------------------------------------------------------|
| <b>ACGIH</b>  | American Conference of Governmental Industrial Hygienists           |
| <b>CAS</b>    | Chemical Abstracts Service                                          |
| <b>CERCLA</b> | Comprehensive Environmental Response Compensation and Liability Act |
| <b>CFR</b>    | Code of Federal Regulations                                         |
| <b>COC</b>    | Cleveland Open Cup                                                  |
| <b>DOT</b>    | Department of Transportation                                        |
| <b>EPCRA</b>  | Emergency Planning and Community Right-to-Know Act (aka SARA)       |
| <b>IARC</b>   | International Agency for Research on Cancer                         |
| <b>NIOSH</b>  | National Institute for Occupational Safety and Health               |
| <b>NTP</b>    | National Toxicology Program                                         |
| <b>OSHA</b>   | Occupational Safety and Health Administration                       |
| <b>PEL</b>    | Permissible Exposure Limit                                          |
| <b>RCRA</b>   | Resource Conservation and Recovery Act                              |
| <b>REC</b>    | Recommended                                                         |
| <b>REL</b>    | Recommended Exposure Limit                                          |
| <b>SARA</b>   | Superfund Amendments and Reauthorization Act of 1986                |
| <b>STEL</b>   | Short-Term Exposure Limit                                           |
| <b>TCLP</b>   | Toxicity Characteristics Leaching Procedure                         |
| <b>TLV</b>    | Threshold Limit Value                                               |
| <b>TSCA</b>   | Toxic Substances Control Act                                        |
| <b>VOC</b>    | 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

|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Maximum duration</b>      | Up to 8 hours per day                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Frequency of exposure</b> | < 240 days per year                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Process conditions</b>    | Covers use at ambient temperatures.<br>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.<br>Keep emissions below the occupational exposure limits of the ingredients specified in section 8 of the SDS.<br>Avoid direct contact.<br>Regular cleaning of equipment and work area.<br>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**

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.



### Good practice advice

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.



### 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.