

**ECO-UV, EUV5-5GL  
ECO-UV, EUV5P-7GL****Safety Data Sheet**

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878  
Issue date: 10/30/2024 Version: 4.0

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Product form : Mixture  
Trade name : ECO-UV, EUV5-5GL  
ECO-UV, EUV5P-7GL  
UFI : FUSE-2W3A-1DKG-FXJN

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

Main use category : Professional use  
Function or use category : Inkjet Printing ink

**1.3. Details of the supplier of the safety data sheet****Manufacturer**

Roland DG Corporation  
1-1-2 Shinmiyakoda, Hamana-ku,  
Hamamatsu-shi, Shizuoka-ken, 431-2103 Japan  
〒431-2103  
T +81-53-484-1200

**Supplier**

Roland DG EMEA N.V.  
Bell Telephonelaan 2G, 2440 Geel, Belgium  
T +32 (0) 14 57 59 11  
[deu-demand-planning@rolanddg.com](mailto:deu-demand-planning@rolanddg.com)

**1.4. Emergency telephone number**

| Country/Area   | Organisation/Company                                     | Emergency number  | Comment          |
|----------------|--|---|------------------|
| Ireland        | Poisons Information Centre of Ireland                    | +353 18 37 99 64 (medical professionals)<br>+353 18 09 21 66 (public) |                  |
| Malta          | Malta Competition and Consumer Affairs Authority (MCCAA) | +356 2395 2000<br>1774 helpline for accidental poisoning              |                  |
| United Kingdom | Emergency number England                                 | 999<br>NHS 111  | or call a doctor |

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Acute toxicity (oral), Category 4 H302  
Acute toxicity (dermal), Category 4 H312  
Skin corrosion/irritation, Category 2 H315  
Serious eye damage/eye irritation, Category 1 H318  
Skin sensitisation, Category 1 H317  
Reproductive toxicity, Category 2 H361  
Specific target organ toxicity – Repeated exposure, Category 2 H373

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Hazardous to the aquatic environment – Chronic Hazard, H410

Category 1

Full text of H- and EUH-statements: see section 16

### Adverse physicochemical, human health and environmental effects

Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure. Harmful in contact with skin. Harmful if swallowed. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Very toxic to aquatic life with long lasting effects.

## 2.2. Label elements

### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



Signal word (CLP)

: Danger

Contains

: 2-Propenoic acid, phenylmethyl ester; 2-Propenoic acid, 1,6-hexanediyl ester; 2-Propenoic acid, 2-phenoxyethyl ester; 2-Propenoic acid, 2-(2-ethoxyethoxy)ethyl ester; 2-Propenamide, N,N-dimethyl-; 2-Propen-1-one, 1-(4-morpholinyl)-; Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate; phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide; Phenol, 4-methoxy-

Hazard statements (CLP)

: H302+H312 - Harmful if swallowed or in contact with skin.  
H315 - Causes skin irritation.  
H317 - May cause an allergic skin reaction.  
H318 - Causes serious eye damage.  
H361 - Suspected of damaging fertility or the unborn child.  
H373 - May cause damage to organs through prolonged or repeated exposure.  
H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements (CLP)

: 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/vapours/spray.  
P264 - Wash hands, forearms and face thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P272 - Contaminated work clothing should not be allowed out of the workplace.

## 2.3. Other hazards

Contains no PBT and/or vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

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### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

| Name   | Product identifier   | %       | Classification according to Regulation (EC) No. 1272/2008 [CLP]  |
|--|--|---------|--|
| 2-Propenoic acid, phenylmethyl ester               | CAS-No.: 2495-35-4<br>EC-No.: 219-673-9<br>REACH-no: 01-2120772339-44                                | 20 – 30 | Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>Aquatic Chronic 1, H410   |
| 2-Propenoic acid, 1,6-hexanediyl ester             | CAS-No.: 13048-33-4<br>EC-No.: 235-921-9<br>EC Index-No.: 607-109-00-8<br>REACH-no: 01-2119484737-22 | 20 – 30 | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1, H317  |
| 2-Propen-1-one, 1-(4-morpholinyl)-                 | CAS-No.: 5117-12-4<br>EC-No.: 418-140-1<br>EC Index-No.: 613-222-00-3<br>REACH-no: 01-2120102080-83  | 10 – 20 | Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight)<br>STOT RE 2, H373<br>Eye Dam. 1, H318<br>Skin Sens. 1, H317  |
| 2-Propenoic acid, 2-phenoxyethyl ester             | CAS-No.: 48145-04-6<br>EC-No.: 256-360-6<br>REACH-no: 01-2119980532-35                               | 5 – 10  | Skin Sens. 1, H317<br>Repr. 2, H361<br>Aquatic Chronic 2, H411   |
| 2-Propenoic acid, 2-(2-ethoxyethoxy)ethyl ester    | CAS-No.: 7328-17-8<br>EC-No.: 230-811-7<br>REACH-no: 01-2120752384-53                                | 5 – 10  | Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight)<br>Acute Tox. 3 (Dermal), H311 (ATE=400 mg/kg bodyweight)<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1, H317<br>Aquatic Chronic 2, H411 |
| 2-Propenamide, N,N-dimethyl-                       | CAS-No.: 2680-03-7<br>REACH-no: 01-2119971262-39   | 5 – 10  | Acute Tox. 3 (Oral), H301 (ATE=215 mg/kg bodyweight)<br>Acute Tox. 3 (Dermal), H311 (ATE=300 mg/kg bodyweight)<br>Eye Dam. 1, H318   |
| Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate    | CAS-No.: 84434-11-7<br>EC-No.: 282-810-6<br>REACH-no: 01-2119987994-10                               | 1 – 5   | Skin Sens. 1, H317<br>Aquatic Chronic 2, H411  |
| phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide | CAS-No.: 162881-26-7<br>EC-No.: 423-340-5<br>EC Index-No.: 015-189-00-5                              | 1 – 5   | Skin Sens. 1A, H317<br>Aquatic Chronic 4, H413   |

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| Name               | Product identifier   | %     | Classification according to Regulation (EC) No. 1272/2008 [CLP]                                   |
|--------------------|--|-------|---|
| Phenol, 4-methoxy- | CAS-No.: 150-76-5<br>EC-No.: 205-769-8<br>EC Index-No.: 604-044-00-7 | 0 – 1 | Acute Tox. 4 (Oral), H302 (ATE=1600 mg/kg bodyweight)<br>Eye Irrit. 2, H319<br>Skin Sens. 1, H317 |

Full text of H- and EUH-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|                                       |  |
|---------------------------------------|--|
| First-aid measures general            | : IF exposed or concerned: Get medical advice/attention. Call a poison center or a doctor if you feel unwell.  |
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing.   |
| First-aid measures after skin contact | : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.                   |
| First-aid measures after eye contact  | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately. |
| First-aid measures after ingestion    | : Rinse mouth. Call a poison center or a doctor if you feel unwell.  |
| First-aid measures for first aider    | : First aid workers will be equipped with suitable personal protective equipment.  |

### 4.2. Most important symptoms and effects, both acute and delayed

|                                     |   |
|-------------------------------------|---|
| Symptoms/effects after inhalation   | : Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard. |
| Symptoms/effects after skin contact | : Irritation. May cause an allergic skin reaction.  |
| Symptoms/effects after eye contact  | : Serious damage to eyes.   |
| Symptoms/effects after ingestion    | : None under normal conditions.   |

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

|                                |  |
|--------------------------------|--|
| Suitable extinguishing media   | : Water spray. Dry powder. Foam. Carbon dioxide. |
| Unsuitable extinguishing media | : Do not use a heavy water stream.               |

### 5.2. Special hazards arising from the substance or mixture

|  |                                |
|--|--------------------------------|
| Explosion hazard                                 | : No direct explosion hazard.  |
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. |

### 5.3. Advice for firefighters

|                           |   |
|---------------------------|---|
| Firefighting instructions | : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection. |
|---------------------------|---|

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Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

General measures : Stop leak if safe to do so. Absorb spillage to prevent material damage.

**For non-emergency personnel**

Protective equipment : Wear recommended personal protective equipment.

Emergency procedures : Ventilate spillage area. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin, eyes and clothing.

**For emergency responders**

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

Emergency procedures : Evacuate unnecessary personnel. Stop leak if safe to do so.

**6.2. Environmental precautions**

Avoid release to the environment.

**6.3. Methods and material for containment and cleaning up**

For containment : Collect spillage. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible.

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Dispose of materials or solid residues at an authorized site.

**6.4. Reference to other sections**

For further information refer to section 13.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

Precautions for safe handling : Ensure good ventilation of the work station. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Do not breathe dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing.

Hygiene measures : Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

**7.2. Conditions for safe storage, including any incompatibilities**

Technical measures : Keep in a cool, well-ventilated place away from heat.

Storage conditions : Store locked up.

Packaging materials : Store always product in container of same material as original container.

**7.3. Specific end use(s)**

Inkjet Printing ink.

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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### DNEL and PNEC

##### 2-Propenoic acid, 1,6-hexanediyl ester (13048-33-4)

##### DNEL/DMEL (Workers)

|  |                           |
|--|---------------------------|
| Long-term - systemic effects, dermal     | 2.77 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 24.5 mg/m <sup>3</sup>    |

##### DNEL/DMEL (General population)

|  |                           |
|--|---------------------------|
| Long-term - systemic effects, oral       | 2.1 mg/kg bodyweight/day  |
| Long-term - systemic effects, inhalation | 7.2 mg/m <sup>3</sup>     |
| Long-term - systemic effects, dermal     | 1.66 mg/kg bodyweight/day |

##### PNEC (Water)

|                          |               |
|--------------------------|---------------|
| PNEC aqua (freshwater)   | 0.00723 mg/l  |
| PNEC aqua (marine water) | 0.000723 mg/l |

##### PNEC (Sediment)

|                              |                  |
|------------------------------|------------------|
| PNEC sediment (freshwater)   | 0.493 mg/kg dwt  |
| PNEC sediment (marine water) | 0.0493 mg/kg dwt |

##### PNEC (Soil)

|           |                 |
|-----------|-----------------|
| PNEC soil | 0.094 mg/kg dwt |
|-----------|-----------------|

##### PNEC (STP)

|                             |          |
|-----------------------------|----------|
| PNEC sewage treatment plant | 2.7 mg/l |
|-----------------------------|----------|

##### 2-Propenoic acid, 2-phenoxyethyl ester (48145-04-6)

##### DNEL/DMEL (Workers)

|  |                          |
|--|--------------------------|
| Long-term - systemic effects, dermal     | 3.5 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 12 mg/m <sup>3</sup>     |
| Long-term - local effects, inhalation    | 77 mg/m <sup>3</sup>     |

##### PNEC (Water)

|                                      |             |
|--------------------------------------|-------------|
| PNEC aqua (freshwater)               | 2 µg/l      |
| PNEC aqua (marine water)             | 0.2 µg/l    |
| PNEC aqua (intermittent, freshwater) | 0.0121 mg/l |

##### PNEC (Sediment)

|                              |                 |
|------------------------------|-----------------|
| PNEC sediment (freshwater)   | 0.02 mg/kg dwt  |
| PNEC sediment (marine water) | 0.002 mg/kg dwt |

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|  |                            |
|--|----------------------------|
| <b>2-Propenoic acid, 2-phenoxyethyl ester (48145-04-6)</b>         |                            |
| <b>PNEC (Soil)</b>   |                            |
| PNEC soil  | 0.006 mg/kg dwt            |
| <b>PNEC (STP)</b>  |                            |
| PNEC sewage treatment plant  | 1.77 mg/l                  |
| <b>2-Propenoic acid, 2-(2-ethoxyethoxy)ethyl ester (7328-17-8)</b> |                            |
| <b>DNEL/DMEL (Workers)</b>   |                            |
| Long-term - systemic effects, dermal                               | 0.083 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation                           | 2.6 mg/m <sup>3</sup>      |
| Long-term - local effects, inhalation                              | 77 mg/m <sup>3</sup>       |
| <b>PNEC (Water)</b>  |                            |
| PNEC aqua (freshwater)   | 3.2 µg/l                   |
| PNEC aqua (marine water)   | 0.32 µg/l                  |
| PNEC aqua (intermittent, freshwater)                               | 32 µg/l                    |
| PNEC aqua (intermittent, marine water)                             | 10 µg/l                    |
| <b>PNEC (Sediment)</b>   |                            |
| PNEC sediment (freshwater)   | 0.0037 mg/kg dwt           |
| PNEC sediment (marine water)                                       | 0.00037 mg/kg dwt          |
| <b>PNEC (Soil)</b>   |                            |
| PNEC soil  | 0.00157 mg/kg dwt          |
| <b>PNEC (STP)</b>  |                            |
| PNEC sewage treatment plant  | 7.7 mg/l                   |
| <b>2-Propenamide, N,N-dimethyl- (2680-03-7)</b>                    |                            |
| <b>DNEL/DMEL (Workers)</b>   |                            |
| Long-term - systemic effects, dermal                               | 357 µg/kg bodyweight/day   |
| Long-term - systemic effects, inhalation                           | 0.207 mg/m <sup>3</sup>    |
| <b>DNEL/DMEL (General population)</b>                              |                            |
| Long-term - systemic effects, oral                                 | 14.7 µg/kg bodyweight/day  |
| Long-term - systemic effects, inhalation                           | 0.0512 mg/m <sup>3</sup>   |
| Long-term - systemic effects, dermal                               | 179 µg/kg bodyweight/day   |
| <b>PNEC (Water)</b>  |                            |
| PNEC aqua (freshwater)   | 0.12 mg/l                  |
| PNEC aqua (marine water)   | 0.012 mg/l                 |

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|   |                          |
|---|--------------------------|
| <b>2-Propenamide, N,N-dimethyl- (2680-03-7)</b>                     |                          |
| PNEC aqua (intermittent, freshwater)                                | 1.2 mg/l                 |
| <b>PNEC (Sediment)</b>  |                          |
| PNEC sediment (freshwater)  | 0.509 mg/kg dwt          |
| PNEC sediment (marine water)  | 0.0509 mg/kg dwt         |
| <b>PNEC (Soil)</b>  |                          |
| PNEC soil   | 0.0313 mg/kg dwt         |
| <b>PNEC (STP)</b>   |                          |
| PNEC sewage treatment plant   | 18 mg/l                  |
| <b>Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate (84434-11-7)</b> |                          |
| <b>DNEL/DMEL (Workers)</b>  |                          |
| Long-term - systemic effects, dermal                                | 1.4 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation                            | 4.93 mg/m <sup>3</sup>   |
| <b>DNEL/DMEL (General population)</b>                               |                          |
| Long-term - systemic effects, oral                                  | 0.5 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation                            | 0.87 mg/m <sup>3</sup>   |
| Long-term - systemic effects, dermal                                | 0.5 mg/kg bodyweight/day |
| <b>PNEC (Water)</b>   |                          |
| PNEC aqua (freshwater)  | 1.01 µg/l                |
| PNEC aqua (marine water)  | 0.101 µg/l               |
| PNEC aqua (intermittent, freshwater)                                | 10.1 µg/l                |
| PNEC aqua (intermittent, marine water)                              | 1.01 µg/l                |
| <b>PNEC (Sediment)</b>  |                          |
| PNEC sediment (freshwater)  | 0.24 mg/kg dwt           |
| PNEC sediment (marine water)  | 24 µg/kg dw              |
| <b>PNEC (Soil)</b>  |                          |
| PNEC soil   | 47.5 µg/kg dw            |
| <b>Phenol, 4-methoxy- (150-76-5)</b>                                |                          |
| <b>DNEL/DMEL (Workers)</b>  |                          |
| Long-term - systemic effects, inhalation                            | 3 mg/m <sup>3</sup>      |
| <b>PNEC (Water)</b>   |                          |
| PNEC aqua (freshwater)  | 0.0136 mg/l              |
| PNEC aqua (marine water)  | 0.00136 mg/l             |



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| Phenol, 4-methoxy- (150-76-5) |                  |
|-------------------------------|------------------|
| PNEC (Sediment)               |                  |
| PNEC sediment (freshwater)    | 0.125 mg/kg dwt  |
| PNEC sediment (marine water)  | 0.0125 mg/kg dwt |
| PNEC (Soil)                   |                  |
| PNEC soil                     | 0.017 mg/kg dwt  |
| PNEC (STP)                    |                  |
| PNEC sewage treatment plant   | 10 mg/l          |

## 8.2. Exposure controls

## Appropriate engineering controls

## Appropriate engineering controls:

Ensure good ventilation of the work station.

## Personal protection equipment

## Personal protective equipment:

Wear recommended personal protective equipment.

## Eye and face protection

## Eye protection:

Not required under suitable use as setting the ink on the printer. However, in case of direct contact to the ink, wear EN166 approved safety glasses or chemical splash goggles.

## Skin protection

## Skin and body protection:

Not required under suitable use as setting the ink on the printer. However, in case of direct contact to the ink, wear protective clothing.

## Hand protection:

Employee must wear appropriate protective impervious gloves to prevent contact with the ink. Recommended Chemical Protective Gloves are EN420/374 approved ethylene vinyl alcohol (EVOH) Gloves and Laminate gloves. Laminate gloves are made by cutting and then heat-sealing patterns of various hand sizes from laminated sheets of EVOH sealed between layers of polyethylene.

## Respiratory protection

## Respiratory protection:

In case of inadequate ventilation and exposure limits are exceeded or if irritation or other symptoms are experienced, use a NIOSH/MSHA or European Standard EN149 approved respirator (with activated carbon layer for organic vapour).

## Environmental exposure controls

## Environmental exposure controls:

Avoid release to the environment.

## Other information:

Wash hands immediately after handling the product. And wash it before reuse. Do not eat, drink or smoke during work.

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## SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

|   |                                     |
|---|-------------------------------------|
| Physical state                                  | : Liquid                            |
| Colour  | : Colourless.                       |
| Appearance                                      | : Liquid.                           |
| Odour   | : characteristic.                   |
| Odour threshold                                 | : Not available                     |
| Melting point                                   | : Not applicable                    |
| Freezing point                                  | : Not available                     |
| Boiling point                                   | : Not available                     |
| Flammability                                    | : No data available                 |
| Lower explosion limit                           | : Not available                     |
| Upper explosion limit                           | : Not available                     |
| Flash point                                     | : > 94 °C                           |
| Auto-ignition temperature                       | : Not available                     |
| Decomposition temperature                       | : Not available                     |
| pH  | : Not available                     |
| Viscosity, kinematic                            | : Not available                     |
| Solubility                                      | : Soluble in water with difficulty. |
| Partition coefficient n-octanol/water (Log Kow) | : Not available                     |
| Vapour pressure                                 | : Not available                     |
| Vapour pressure at 50°C                         | : Not available                     |
| Density   | : 1 – 1.1                           |
| Relative density                                | : Not available                     |
| Relative vapour density at 20°C                 | : Not available                     |
| Particle characteristics                        | : Not applicable                    |

## 9.2. Other information

## Other safety characteristics

|             |             |
|-------------|-------------|
| SAPT        | : > 50 °C   |
| VOC content | : 0.047 g/l |

## SECTION 10: Stability and reactivity

## 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

## 10.2. Chemical stability

Stable under normal conditions.

## 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

## 10.4. Conditions to avoid

None under recommended storage and handling conditions.

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**10.5. Incompatible materials**

No additional information available

**10.6. Hazardous decomposition products**

Carbon monoxide, carbon dioxide, oxides of nitrogen, toxic gases/vapors.

**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

|                                   |  |
|-----------------------------------|--|
| Acute toxicity (oral)             | : Harmful if swallowed.  |
| Acute toxicity (dermal)           | : Harmful in contact with skin.  |
| Acute toxicity (inhalation)       | : Not classified (Based on available data, the classification criteria are not met)          |
| Skin corrosion/irritation         | : Causes skin irritation.<br>pH: Not available   |
| Serious eye damage/irritation     | : Causes serious eye damage.<br>pH: Not available  |
| Respiratory or skin sensitisation | : May cause an allergic skin reaction.   |
| Germ cell mutagenicity            | : Not classified (Based on available data, the classification criteria are not met)          |
| Carcinogenicity                   | : IARC evaluated printing ink as a Group3(Not classifiable as to carcinogenicity to humans). |
| Reproductive toxicity             | : Suspected of damaging fertility or the unborn child.                                       |
| STOT-single exposure              | : Not classified (Based on available data, the classification criteria are not met)          |
| STOT-repeated exposure            | : May cause damage to organs through prolonged or repeated exposure.                         |
| Aspiration hazard                 | : Not classified (Based on available data, the classification criteria are not met)          |

**11.2. Information on other hazards**

No additional information available

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

|   |  |
|---|--|
| Ecology - general   | : Very toxic to aquatic life with long lasting effects.                              |
| Hazardous to the aquatic environment, short-term (acute)  | : Not classified (Based on available data, the classification criteria are not met). |
| Hazardous to the aquatic environment, long-term (chronic) | : Very toxic to aquatic life with long lasting effects.                              |

**12.2. Persistence and degradability****ECO-UV, EUV5-5GL  
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|                               |                    |
|-------------------------------|--------------------|
| Persistence and degradability | No data available. |
|-------------------------------|--------------------|

**12.3. Bioaccumulative potential**

No additional information available

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12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

|  |   |
|--|---|
| Regional waste regulation                  | : Disposal must be done according to official regulations.                                    |
| Waste treatment methods                    | : Dispose of contents/container in accordance with licensed collector's sorting instructions. |
| Sewage disposal recommendations            | : Disposal must be done according to official regulations.                                    |
| Product/Packaging disposal recommendations | : Disposal must be done according to official regulations.                                    |
| Additional information                     | : Do not re-use empty containers.   |
| European List of Waste (LoW, EC 2000/532)  | : 08 03 12* - waste ink containing dangerous substances                                       |

SECTION 14: Transport information





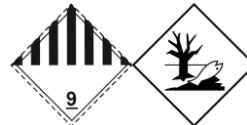
In accordance with ADR / IMDG / IATA / ADN / RID

| ADR  | IMDG   | IATA   | ADN  | RID  |
|--|--|--|--|--|
| Special provision(s)<br>applied : 375  | Special provision(s)<br>applied : 969                        | Special provision(s)<br>applied : A197                 | Special provision(s)<br>applied : 375                        | Special provision(s)<br>applied : 375                        |
| These substances when carried in single or combination packagings containing a net quantity per single or inner packaging of 5 l or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids, are not subject to any other provisions of ADR provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. |  |  |  |  |
| 14.1. UN number or ID number   |  |  |  |  |
| UN 3082  | UN 3082  | UN 3082  | UN 3082  | UN 3082  |
| 14.2. UN proper shipping name  |  |  |  |  |
| ENVIRONMENTALLY<br>HAZARDOUS<br>SUBSTANCE, LIQUID,<br>N.O.S.   | ENVIRONMENTALLY<br>HAZARDOUS<br>SUBSTANCE, LIQUID,<br>N.O.S. | Environmentally hazardous<br>substance, liquid, n.o.s. | ENVIRONMENTALLY<br>HAZARDOUS<br>SUBSTANCE, LIQUID,<br>N.O.S. | ENVIRONMENTALLY<br>HAZARDOUS<br>SUBSTANCE, LIQUID,<br>N.O.S. |

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| ADR  | IMDG   | IATA  | ADN  | RID   |
|--|--|---|--|---|
| <b>Transport document description</b>  |  |   |  |   |
| UN 3082<br>ENVIRONMENTALLY<br>HAZARDOUS<br>SUBSTANCE, LIQUID,<br>N.O.S., 9, III, (-) | UN 3082<br>ENVIRONMENTALLY<br>HAZARDOUS<br>SUBSTANCE, LIQUID,<br>N.O.S., 9, III, MARINE<br>POLLUTANT             | UN 3082 Environmentally<br>hazardous substance,<br>liquid, n.o.s., 9, III         | UN 3082<br>ENVIRONMENTALLY<br>HAZARDOUS<br>SUBSTANCE, LIQUID,<br>N.O.S., 9, III    | UN 3082<br>ENVIRONMENTALLY<br>HAZARDOUS<br>SUBSTANCE, LIQUID,<br>N.O.S., 9, III     |
| <b>14.3. Transport hazard class(es)</b>  |  |   |  |   |
| 9  | 9  | 9   | 9  | 9   |
|     |                                 |  |  |  |
| <b>14.4. Packing group</b>   |  |   |  |   |
| III  | III  | III   | III  | III   |
| <b>14.5. Environmental hazards</b>   |  |   |  |   |
| Dangerous for the<br>environment: Yes  | Dangerous for the<br>environment: Yes<br>Marine pollutant: Yes<br>EmS-No. (Fire): F-A<br>EmS-No. (Spillage): S-F | Dangerous for the<br>environment: Yes   | Dangerous for the<br>environment: Yes  | Dangerous for the<br>environment: Yes   |
| No supplementary information available   |  |   |  |   |

### 14.6. Special precautions for user

#### Overland transport

|   |                           |
|---|---------------------------|
| Classification code (ADR)   | : M6                      |
| Special provisions (ADR)  | : 274, 335, 375, 601      |
| Limited quantities (ADR)  | : 5I                      |
| Excepted quantities (ADR)   | : E1                      |
| Packing instructions (ADR)  | : P001, IBC03, LP01, R001 |
| Special packing provisions (ADR)  | : PP1                     |
| Mixed packing provisions (ADR)  | : MP19                    |
| Portable tank and bulk container instructions (ADR)                     | : T4                      |
| Portable tank and bulk container special provisions (ADR)               | : TP1, TP29               |
| Tank code (ADR)   | : LGBV                    |
| Vehicle for tank carriage   | : AT                      |
| Transport category (ADR)  | : 3                       |
| Special provisions for carriage - Packages (ADR)                        | : V12                     |
| Special provisions for carriage - Loading, unloading and handling (ADR) | : CV13                    |
| Hazard identification number (Kemler No.)                               | : 90                      |

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|               |   |   |
|---------------|---|---|
| Orange plates | : | <div><div>90</div><div>3082</div></div> |
|---------------|---|---|

|                               |   |     |
|-------------------------------|---|-----|
| Tunnel restriction code (ADR) | : | -   |
| EAC code                      | : | •3Z |

## Transport by sea

|                                   |   |               |
|-----------------------------------|---|---------------|
| Special provisions (IMDG)         | : | 274, 335, 969 |
| Limited quantities (IMDG)         | : | 5 L           |
| Excepted quantities (IMDG)        | : | E1            |
| Packing instructions (IMDG)       | : | LP01, P001    |
| Special packing provisions (IMDG) | : | PP1           |
| IBC packing instructions (IMDG)   | : | IBC03         |
| Tank instructions (IMDG)          | : | T4            |
| Tank special provisions (IMDG)    | : | TP1, TP29     |
| Stowage category (IMDG)           | : | A             |

## Air transport

|  |   |                       |
|--|---|-----------------------|
| PCA Excepted quantities (IATA)               | : | E1                    |
| PCA Limited quantities (IATA)                | : | Y964                  |
| PCA limited quantity max net quantity (IATA) | : | 30kgG                 |
| PCA packing instructions (IATA)              | : | 964                   |
| PCA max net quantity (IATA)                  | : | 450L                  |
| CAO packing instructions (IATA)              | : | 964                   |
| CAO max net quantity (IATA)                  | : | 450L                  |
| Special provisions (IATA)                    | : | A97, A158, A197, A215 |
| ERG code (IATA)                              | : | 9L                    |

## Inland waterway transport

|                                   |   |                    |
|-----------------------------------|---|--------------------|
| Classification code (ADN)         | : | M6                 |
| Special provisions (ADN)          | : | 274, 335, 375, 601 |
| Limited quantities (ADN)          | : | 5 L                |
| Excepted quantities (ADN)         | : | E1                 |
| Carriage permitted (ADN)          | : | T                  |
| Equipment required (ADN)          | : | PP                 |
| Number of blue cones/lights (ADN) | : | 0                  |

## Rail transport

|   |   |                         |
|---|---|-------------------------|
| Classification code (RID)                                 | : | M6                      |
| Special provisions (RID)                                  | : | 274, 335, 375, 601      |
| Limited quantities (RID)                                  | : | 5L                      |
| Excepted quantities (RID)                                 | : | E1                      |
| Packing instructions (RID)                                | : | P001, IBC03, LP01, R001 |
| Special packing provisions (RID)                          | : | PP1                     |
| Mixed packing provisions (RID)                            | : | MP19                    |
| Portable tank and bulk container instructions (RID)       | : | T4                      |
| Portable tank and bulk container special provisions (RID) | : | TP1, TP29               |
| Tank codes for RID tanks (RID)                            | : | LGBV                    |
| Transport category (RID)                                  | : | 3                       |
| Special provisions for carriage – Packages (RID)          | : | W12                     |

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Special provisions for carriage - Loading, unloading : CW13, CW31  
and handling (RID)  
Colis express (express parcels) (RID) : CE8  
Hazard identification number (RID) : 90

## 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

## SECTION 15: Regulatory information

## 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

## EU-Regulations

## REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

## REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

## PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

## POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

## Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

## Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

## VOC Directive (2004/42)

VOC content : 0.047 g/l

## Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

## Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

## Abbreviations and acronyms:

|     |   |
|-----|---|
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
|-----|---|

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| Abbreviations and acronyms: |   |
|-----------------------------|---|
| ADR                         | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| ATE                         | Acute Toxicity Estimate   |
| BCF                         | Bioconcentration factor   |
| BLV                         | Biological limit value  |
| BOD                         | Biochemical oxygen demand (BOD)   |
| COD                         | Chemical oxygen demand (COD)  |
| DMEL                        | Derived Minimal Effect level  |
| DNEL                        | Derived-No Effect Level   |
| EC-No.                      | European Community number   |
| EC50                        | Median effective concentration  |
| EN                          | European Standard   |
| IARC                        | International Agency for Research on Cancer   |
| IATA                        | International Air Transport Association   |
| IMDG                        | International Maritime Dangerous Goods  |
| LC50                        | Median lethal concentration   |
| LD50                        | Median lethal dose  |
| LOAEL                       | Lowest Observed Adverse Effect Level  |
| NOAEC                       | No-Observed Adverse Effect Concentration  |
| NOAEL                       | No-Observed Adverse Effect Level  |
| NOEC                        | No-Observed Effect Concentration  |
| OECD                        | Organisation for Economic Co-operation and Development                              |
| OEL                         | Occupational Exposure Limit   |
| PBT                         | Persistent Bioaccumulative Toxic  |
| PNEC                        | Predicted No-Effect Concentration   |
| RID                         | Regulations concerning the International Carriage of Dangerous Goods by Rail        |
| SDS                         | Safety Data Sheet   |
| STP                         | Sewage treatment plant  |
| ThOD                        | Theoretical oxygen demand (ThOD)  |
| TLM                         | Median Tolerance Limit  |
| VOC                         | Volatile Organic Compounds  |
| CAS-No.                     | Chemical Abstract Service number  |
| N.O.S.                      | Not Otherwise Specified   |



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**Abbreviations and acronyms:**

|      |  |
|------|--|
| vPvB | Very Persistent and Very Bioaccumulative |
| ED   | Endocrine disruptor                      |

**Full text of H- and EUH-statements:**

|                       |  |
|-----------------------|--|
| Acute Tox. 3 (Dermal) | Acute toxicity (dermal), Category 3                                |
| Acute Tox. 3 (Oral)   | Acute toxicity (oral), Category 3                                  |
| Acute Tox. 4 (Dermal) | Acute toxicity (dermal), Category 4                                |
| Acute Tox. 4 (Oral)   | Acute toxicity (oral), Category 4                                  |
| Aquatic Chronic 1     | Hazardous to the aquatic environment – Chronic Hazard, Category 1  |
| Aquatic Chronic 2     | Hazardous to the aquatic environment – Chronic Hazard, Category 2  |
| Aquatic Chronic 4     | Hazardous to the aquatic environment – Chronic Hazard, Category 4  |
| Eye Dam. 1            | Serious eye damage/eye irritation, Category 1                      |
| Eye Irrit. 2          | Serious eye damage/eye irritation, Category 2                      |
| H301                  | Toxic if swallowed.  |
| H302                  | Harmful if swallowed.  |
| H311                  | Toxic in contact with skin.  |
| 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.                                     |
| H361                  | Suspected of damaging fertility or the unborn child.               |
| H373                  | May cause 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.            |
| Repr. 2               | Reproductive toxicity, Category 2                                  |
| Skin Irrit. 2         | Skin corrosion/irritation, Category 2                              |
| Skin Sens. 1          | Skin sensitisation, Category 1                                     |
| Skin Sens. 1A         | Skin sensitisation, category 1A                                    |
| STOT RE 2             | Specific target organ toxicity – Repeated exposure, Category 2     |

RDG Safety Data Sheet (SDS), EU

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.