

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Issue date: 1/17/2025 Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture
Trade name : EUV-A7CY
UFI : M1WE-4WKC-6DKU-2G9V

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 Telephonedlaan 2G, 2440 Geel, Belgium
T +32 (0) 14 57 59 11
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) +353 18 09 21 66 (public) | |
| Malta | Malta Competition and Consumer Affairs Authority (MCCAA) | +356 2395 2000 1774 helpline for accidental poisoning | |
| United Kingdom | Emergency number England | 999 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 (inhalation:dust,mist) Category 4 H332
Skin corrosion/irritation, Category 2 H315
Serious eye damage/eye irritation, Category 2 H319
Skin sensitisation, Category 1 H317
Reproductive toxicity, Category 2 H361
Specific target organ toxicity – Repeated exposure, Category 1 H372
Hazardous to the aquatic environment – Chronic Hazard, Category 2 H411

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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. Causes damage to organs through prolonged or repeated exposure. Harmful if inhaled. Harmful if swallowed. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. 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

Hazard statements (CLP)

: H302+H332 - Harmful if swallowed or if inhaled.
 H315 - Causes skin irritation.
 H317 - May cause an allergic skin reaction.
 H319 - Causes serious eye irritation.
 H361 - Suspected of damaging fertility or the unborn child.
 H372 - Causes damage to organs through prolonged or repeated exposure.
 H411 - 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.
 P271 - Use only outdoors or in a well-ventilated area.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.2. Mixtures

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|--|---------|---|
| 2-Propenoic acid, 2-phenoxyethyl ester | CAS-No.: 48145-04-6 EC-No.: 256-360-6 REACH-no: 01-2119980532-35 | 10 – 30 | Skin Sens. 1, H317 Repr. 2, H361 Aquatic Chronic 2, H411 |
| (2-ethyl-2-methyl-1,3-dioxolan-4-yl)methyl acrylate | CAS-No.: 69701-99-1 | 10 – 30 | Acute Tox. 4 (Inhalation), H332 (ATE=1.5 mg/l/4h) Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411 |

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| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|---|---------|---|
| (5-ethyl-1,3-dioxan-5-yl)methyl acrylate | CAS-No.: 66492-51-1 EC-No.: 266-380-7 | 10 – 30 | Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT RE 2, H373 Aquatic Chronic 2, H411 |
| N-VINYL CAPROLACTAM | CAS-No.: 2235-00-9 EC-No.: 218-787-6 REACH-no: 01-2119977109-27 | 10 – 30 | Acute Tox. 4 (Oral), H302 (ATE=1114 mg/kg bodyweight) Acute Tox. 4 (Dermal), H312 (ATE=1700 mg/kg bodyweight) Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT RE 1, H372 |
| Poly(oxy-1,2-ethanediyl), α-(1-oxo-2-propenyl)-ω-[(1-oxo-2-propenyl)oxy]- | CAS-No.: 26570-48-9 | 5 – 10 | Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 3, H412 |
| phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide | CAS-No.: 162881-26-7 EC-No.: 423-340-5 EC Index-No.: 015-189-00-5 | 1 – 5 | Skin Sens. 1A, H317 Aquatic Chronic 4, H413 |
| Phenol, ethoxylated, esters with acrylic acid [1 - 2.5 moles ethoxylated] | CAS-No.: 56641-05-5 EC-No.: 500-133-9 | 1 – 5 | Skin Sens. 1, H317 Aquatic Chronic 2, H411 |
| 2-isopropyl-9H-thioxanthen-9-one | CAS-No.: 5495-84-1 | 1 – 5 | Repr. 2, H361 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10) |
| Propylidynetrimethanol, ethoxylated, esters with acrylic acid [1 - 6.5 moles ethoxylated] | CAS-No.: 28961-43-5 EC-No.: 500-066-5 | 1 – 5 | Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 3, H412 |
| Copper, [29H,31H-phthalocyaninato(2-)-κN29,κN30,κN31,κN32]-, (SP-4-1)- | CAS-No.: 147-14-8 EC-No.: 205-685-1 | 1 – 5 | Not classified |
| Glycerol, propoxylated, esters with acrylic acid | CAS-No.: 52408-84-1 | < 1 | Eye Irrit. 2, H319 Skin Sens. 1, H317 |
| 2-Propenoic acid, 2-ethyl-2-[(1-oxo-2-propenyl)oxy]methyl-1,3-propanediyl ester | CAS-No.: 15625-89-5 EC-No.: 239-701-3 EC Index-No.: 607-111-00-9 | < 1 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 |
| ISOPROPYLIDENEDIPHENYL BISOXYHYDROXYPROPYL ACRYLATE | CAS-No.: 55818-57-0 EC-No.: 500-130-2 | < 1 | Skin Sens. 1, H317 Aquatic Chronic 2, H411 |

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.

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| | |
|---------------------------------------|--|
| First-aid measures after inhalation | : Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell. |
| 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. If eye irritation persists: Get medical advice/attention. |
| 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 | : Eye irritation. |
| 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. |
| 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 and eyes. |

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. |

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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 | : 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. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes. |
| 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.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL and PNEC

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 ³ |
| Long-term - local effects, inhalation | 77 mg/m ³ |

PNEC (Water)

| | |
|--------------------------|----------|
| PNEC aqua (freshwater) | 2 µg/l |
| PNEC aqua (marine water) | 0.2 µg/l |

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| | |
|--|--------------------------|
| 2-Propenoic acid, 2-phenoxyethyl ester (48145-04-6) | |
| 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 |
| PNEC (Soil) | |
| PNEC soil | 0.006 mg/kg dwt |
| PNEC (STP) | |
| PNEC sewage treatment plant | 1.77 mg/l |
| (5-ethyl-1,3-dioxan-5-yl)methyl acrylate (66492-51-1) | |
| PNEC (Water) | |
| PNEC aqua (freshwater) | 0.004 mg/l |
| PNEC aqua (marine water) | 0.0004 mg/l |
| PNEC aqua (intermittent, freshwater) | 0.04 mg/l |
| PNEC (Sediment) | |
| PNEC sediment (freshwater) | 0.019 mg/kg dwt |
| PNEC sediment (marine water) | 0.0019 mg/kg dwt |
| PNEC (Soil) | |
| PNEC soil | 0.0014 mg/kg dwt |
| PNEC (STP) | |
| PNEC sewage treatment plant | 30 mg/l |
| Glycerol, propoxylated, esters with acrylic acid (52408-84-1) | |
| DNEL/DMEL (Workers) | |
| Long-term - systemic effects, dermal | 2.1 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 7.4 mg/m ³ |
| PNEC (Water) | |
| PNEC aqua (freshwater) | 0.00574 mg/l |
| PNEC aqua (marine water) | 0.000574 mg/l |
| PNEC aqua (intermittent, freshwater) | 0.0574 mg/l |
| PNEC (Sediment) | |
| PNEC sediment (freshwater) | 0.078 mg/kg dwt |
| PNEC sediment (marine water) | 0.0078 mg/kg dwt |
| PNEC (Soil) | |
| PNEC soil | 0.0122 mg/kg dwt |

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| | |
|--|---------------------------|
| Glycerol, propoxylated, esters with acrylic acid (52408-84-1) | |
| PNEC (STP) | |
| PNEC sewage treatment plant | 10 mg/l |
| 2-Propenoic acid, 2-ethyl-2-[[[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl ester (15625-89-5) | |
| DNEL/DMEL (Workers) | |
| Long-term - systemic effects, dermal | 404 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 17.1 mg/m ³ |
| PNEC (Water) | |
| PNEC aqua (freshwater) | 0.87 µg/l |
| PNEC aqua (marine water) | 0.087 µg/l |
| PNEC aqua (intermittent, freshwater) | 8.7 µg/l |
| PNEC (Sediment) | |
| PNEC sediment (freshwater) | 0.017 mg/kg dwt |
| PNEC sediment (marine water) | 0.0017 mg/kg dwt |
| PNEC (Soil) | |
| PNEC soil | 0.0029 mg/kg dwt |
| PNEC (Oral) | |
| PNEC oral (secondary poisoning) | 10 mg/kg food |
| PNEC (STP) | |
| PNEC sewage treatment plant | 6.25 mg/l |
| N-VINYL CAPROLACTAM (2235-00-9) | |
| DNEL/DMEL (Workers) | |
| Long-term - systemic effects, dermal | 0.7 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 4.9 mg/m ³ |
| Long-term - local effects, inhalation | 0.17 mg/m ³ |
| DNEL/DMEL (General population) | |
| Long-term - systemic effects, oral | 0.4 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 1.04 mg/m ³ |
| Long-term - systemic effects, dermal | 0.42 mg/kg bodyweight/day |
| Long-term - local effects, inhalation | 0.04 mg/m ³ |
| Phenol, ethoxylated, esters with acrylic acid [1 - 2.5 moles ethoxylated] (56641-05-5) | |
| DNEL/DMEL (Workers) | |
| Long-term - systemic effects, dermal | 1 mg/kg bodyweight/day |

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| | |
|---|---------------------------|
| Phenol, ethoxylated, esters with acrylic acid [1 - 2.5 moles ethoxylated] (56641-05-5) | |
| Long-term - systemic effects, inhalation | 3.5 mg/m ³ |
| Long-term - local effects, inhalation | 97 mg/m ³ |
| 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) | 0.0528 mg/kg dwt |
| PNEC sediment (marine water) | 0.00528 mg/kg dwt |
| PNEC (Soil) | |
| PNEC soil | 0.009 mg/kg dwt |
| PNEC (STP) | |
| PNEC sewage treatment plant | 1.77 mg/l |
| 2-isopropyl-9H-thioxanthen-9-one (5495-84-1) | |
| DNEL/DMEL (Workers) | |
| Long-term - systemic effects, dermal | 2.92 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 2.06 mg/m ³ |
| DNEL/DMEL (General population) | |
| Long-term - systemic effects, oral | 0.1 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 0.36 mg/m ³ |
| Long-term - systemic effects, dermal | 1.04 mg/kg bodyweight/day |
| PNEC (Water) | |
| PNEC aqua (freshwater) | 0.000125 mg/l |
| PNEC aqua (marine water) | 0.0000125 mg/l |
| PNEC aqua (intermittent, freshwater) | 0.00125 mg/l |
| PNEC aqua (intermittent, marine water) | 0.000125 mg/l |
| PNEC (Sediment) | |
| PNEC sediment (freshwater) | 0.121 mg/kg dwt |
| PNEC sediment (marine water) | 0.0121 mg/kg dwt |
| PNEC (Soil) | |
| PNEC soil | 0.0241 mg/kg dwt |
| PNEC (Oral) | |
| PNEC oral (secondary poisoning) | 0.333 mg/kg food |

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| | |
|---|---------------------------|
| 2-isopropyl-9H-thioxanthen-9-one (5495-84-1) | |
| PNEC (STP) | |
| PNEC sewage treatment plant | 100 mg/l |
| Propylidynetrimethanol, ethoxylated, esters with acrylic acid [1 - 6.5 moles ethoxylated] (28961-43-5) | |
| DNEL/DMEL (Workers) | |
| Long-term - systemic effects, dermal | 10.5 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 37 mg/m ³ |
| PNEC (Water) | |
| PNEC aqua (freshwater) | 0.00195 mg/l |
| PNEC aqua (marine water) | 0.000195 mg/l |
| PNEC aqua (intermittent, freshwater) | 0.0195 mg/l |
| PNEC aqua (intermittent, marine water) | 0.00195 mg/l |
| PNEC (Sediment) | |
| PNEC sediment (freshwater) | 0.038 mg/kg dwt |
| PNEC sediment (marine water) | 0.0038 mg/kg dwt |
| PNEC (Soil) | |
| PNEC soil | 0.00644 mg/kg dwt |
| PNEC (STP) | |
| PNEC sewage treatment plant | 10 mg/l |
| ISOPROPYLIDENEDIPHENYL BISOXYHYDROXYPROPYL ACRYLATE (55818-57-0) | |
| DNEL/DMEL (Workers) | |
| Long-term - systemic effects, dermal | 33 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 1.17 mg/m ³ |
| PNEC (Water) | |
| PNEC aqua (freshwater) | 0.025 mg/l |
| PNEC aqua (marine water) | 0.0025 mg/l |
| PNEC (Sediment) | |
| PNEC sediment (freshwater) | 8.96 mg/kg dwt |
| PNEC sediment (marine water) | 0.896 mg/kg dwt |
| PNEC (Soil) | |
| PNEC soil | 1.78 mg/kg dwt |
| PNEC (STP) | |
| PNEC sewage treatment plant | 10 mg/l |

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Copper, [29H,31H-phthalocyaninato(2-)-κN29,κN30,κN31,κN32]-, (SP-4-1)- (147-14-8)**DNEL/DMEL (Workers)**

| | |
|---------------------------------------|----------------------|
| Acute - local effects, inhalation | 10 mg/m ³ |
| Long-term - local effects, inhalation | 10 mg/m ³ |

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.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

| | |
|-----------------|-------------------|
| Physical state | : Liquid |
| Colour | : Cyan. |
| Appearance | : Liquid. |
| Odour | : characteristic. |
| Odour threshold | : Not available |
| Melting point | : Not applicable |
| Freezing point | : Not available |
| Boiling point | : Not available |

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| | |
|---|-------------------------------------|
| 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

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.

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) | : Not classified (Based on available data, the classification criteria are not met) |
| Acute toxicity (inhalation) | : Inhalation:dust,mist: Harmful if inhaled. |

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| | |
|-----------------------------------|--|
| Skin corrosion/irritation | : Causes skin irritation. pH: Not available |
| Serious eye damage/irritation | : Causes serious eye irritation. 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). |

2-Propenoic acid, 2-ethyl-2-[[[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl ester (15625-89-5)

| | |
|------------------------|---|
| IARC group | 2B - Possibly carcinogenic 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 | : Causes 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 | : 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) | : Toxic to aquatic life with long lasting effects. |

12.2. Persistence and degradability
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| | |
|-------------------------------|--------------------|
| Persistence and degradability | No data available. |
|-------------------------------|--------------------|

12.3. Bioaccumulative potential

No additional information available

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

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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) applied : 375 | Special provision(s) applied : 969 | Special provision(s) applied : A197 | Special provision(s) applied : 375 | Special provision(s) 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 HAZARDOUS SUBSTANCE, LIQUID, N.O.S. | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. | Environmentally hazardous substance, liquid, n.o.s. | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. |
| Transport document description | | | | |
| UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III, (-) | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III, MARINE POLLUTANT | UN 3082 Environmentally hazardous substance, liquid, n.o.s., 9, III | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III |
| 14.3. Transport hazard class(es) | | | | |
| 9 | 9 | 9 | 9 | 9 |
|  |  |  |  |  |
| 14.4. Packing group | | | | |
| III | III | III | III | III |

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| ADR | IMDG | IATA | ADN | RID |
|--|---|------------------------------------|------------------------------------|------------------------------------|
| 14.5. Environmental hazards | | | | |
| Dangerous for the environment: Yes | Dangerous for the environment: Yes Marine pollutant: Yes EmS-No. (Fire): F-A EmS-No. (Spillage): S-F | Dangerous for the environment: Yes | Dangerous for the environment: Yes | Dangerous for the 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 |
| Orange plates | :  |
| 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 |

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| | |
|---------------------------------|-------------------------|
| 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 |
| Special provisions for carriage - Loading, unloading and handling (RID) | : CW13, CW31 |
| 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)

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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.

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 |
| 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 |

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Abbreviations and acronyms:

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

Full text of H- and EUH-statements:

| | |
|-------------------------------------|---|
| Acute Tox. 4 (Dermal) | Acute toxicity (dermal), Category 4 |
| Acute Tox. 4 (Inhalation) | Acute toxicity (inhal.), Category 4 |
| Acute Tox. 4 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 4 |
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
| Aquatic Acute 1 | Hazardous to the aquatic environment – Acute Hazard, Category 1 |
| 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 3 | Hazardous to the aquatic environment – Chronic Hazard, Category 3 |
| Aquatic Chronic 4 | Hazardous to the aquatic environment – Chronic Hazard, Category 4 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| H302 | Harmful if swallowed. |
| H312 | Harmful in contact with skin. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |

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Full text of H- and EUH-statements:

| | |
|---------------|--|
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H361 | Suspected of damaging fertility or the unborn child. |
| H372 | Causes damage to organs through prolonged or repeated exposure. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful 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 1 | Specific target organ toxicity – Repeated exposure, Category 1 |
| STOT RE 2 | Specific target organ toxicity – Repeated exposure, Category 2 |

RDG Safety Data Sheet (SDS), EU

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.