



Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 12.02.2019

Version number 18

Revision: 12.02.2019

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

- **1.1 Product identifier**
- **Trade name: 41UE4000 NEWV SET YELLOW**
- **MSDS no.** 174,112
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture** Printing inks
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
hubergroup Polska Spółka z o.o.
Nowa Wieś Wrocławska ul.Nowa 21
55-080 Kąty Wrocławskie
Telefon:071 3548110, Fax: 0713548121
- **Informing department:**
Product Safety hubergroup
Telefon: + 49 89-9003-220
Telefax: + 49 89-9003-500
E-mail: product-safety@hubergroup.com
- **1.4 Emergency telephone number:** Podczas godzin pracy 0713548110

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS08 health hazard

Repr. 1B H360 May damage fertility or the unborn child. Route of exposure: Oral, Inhalation, Dermal.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2 H319 Causes serious eye irritation.
Skin Sens. 1 H317 May cause an allergic skin reaction.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS07 GHS08

- **Signal word** Danger
- **Hazard-determining components of labelling:**
Glycerol, propoxylated, esters with acrylic acid
2-ethylhexyl 4-(dimethylamino)benzoate
Ethoxylated trimethylolpropane triacrylate

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Ethyl-p-dimethylamino benzoate
4,4'-isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid
Pentaerythritol-Tri-/Tetracrylate
2-Propenoic acid, reaction products with dipentaerythiol
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight \leq 700)

• **Hazard statements**

H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H360 May damage fertility or the unborn child. Route of exposure: Oral, Inhalation, Dermal.
H412 Harmful to aquatic life with long lasting effects.

• **Precautionary statements**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

• **2.3 Other hazards** This information is provided by the present Material Safety Data Sheet.

• **Results of PBT and vPvB assessment**

• **PBT:** Not applicable.
• **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

• **3.2 Chemical characterisation: Mixtures**

• **Dangerous components:**

| | | |
|--------------------------------|--|----------------|
| | Dimer fatty acids, chloromethyloxirane, acrylic acid polymer | 15-20% |
| | Skin Irrit. 2, H315; Eye Irrit. 2, H319 | |
| CAS: 94108-97-1 | 2-[[2,2-bis[[[(1-oxoallyl)oxy]methyl]butoxy]methyl]-2-ethyl-1,3- | \geq 5-<10% |
| EC number: 302-434-9 | propanediyl diacrylate | |
| Reg.nr.: 01-2119977121-41-xxxx | Aquatic Chronic 2, H411; Eye Irrit. 2, H319 | |
| CAS: 52408-84-1 | Glycerol, propoxylated, esters with acrylic acid | \geq 5-<10% |
| NLP: 500-114-5 | Eye Irrit. 2, H319; Skin Sens. 1, H317 | |
| Reg.nr.: 01-2119487948-12-xxxx | | |
| | Polyester Acrylate | \geq 5-<10% |
| | Skin Irrit. 2, H315; Eye Irrit. 2, H319 | |
| CAS: 28961-43-5 | Ethoxylated trimethylolpropane triacrylate | 3-<5% |
| NLP: 500-066-5 | Eye Irrit. 2, H319; Skin Sens. 1, H317 | |
| Reg.nr.: 01-2119489900-30-xxxx | | |
| CAS: 55818-57-0 | 4,4'-isopropylidenediphenol, oligomeric reaction products with 1- | 3-<5% |
| NLP: 500-130-2 | chloro-2,3-epoxypropane, esters with acrylic acid | |
| Reg.nr.: 01-2119490020-53-XXXX | Skin Sens. 1, H317 | |
| CAS: 10287-53-3 | Ethyl-p-dimethylamino benzoate | \geq 1-<2.5% |
| EINECS: 233-634-3 | Repr. 1B, H360; Aquatic Chronic 2, H411 | |
| CAS: 21245-02-3 | 2-ethylhexyl 4-(dimethylamino)benzoate | 1-2.5% |
| EINECS: 244-289-3 | Repr. 1B, H360; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335; Aquatic Chronic 4, H413 | |

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| | | |
|---|---|------------|
| EC number: 629-850-6 Reg.nr.: 17-2120136644-57-xxxx | Pentaerythritol-Tri-/Tetracrylate Eye Dam. 1, H318; Aquatic Chronic 2, H411; Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1, H317 | ≥1-<2.5% |
| CAS: 5495-84-1 EINECS: 226-827-9 Reg.nr.: 01-2120769513-49-xxxx | 2-isopropyl-9H-thioxanthen-9-one STOT RE 2, H373 | 1-2.5% |
| CAS: 2128-93-0 EINECS: 218-345-2 | 4-Phenylbenzophenone Repr. 1B, H360 | 1-2.5% |
| CAS: 1384855-91-7 EC number: 800-838-4 Reg.nr.: 01-2119980666-22-0001 | 2-Propenoic acid, reaction products with dipentaerythiol Eye Irrit. 2, H319; Skin Sens. 1, H317; Aquatic Chronic 3, H412 | ≥0.1-<1% |
| CAS: 25068-38-6 NLP: 500-033-5 | reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number ≥0.25-<0.5% average molecular weight ≤ 700) Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317 | |
| CAS: 119313-12-1 ELINCS: 404-360-3 Reg.nr.: 01-2119485011-49-xxxx | 2-Benzyl-2-dimethylamino-4-morpholinobutyrophenone Repr. 1B, H360D; Aquatic Acute 1, H400; Aquatic Chronic 1, H410 | ≥0.3-<0.5% |

• **Additional information** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

• 4.1 Description of first aid measures

• **General information**

In all cases of doubt, or when symptoms persist, seek medical advice.

In case of unconsciousness place person in the recovery position. Never give anything by mouth.

• **After inhalation**

Remove to fresh air.

Keep patient warm and at rest.

• **After skin contact**

Remove contaminated clothing immediately. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.

• **After eye contact**

Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Remove contact lenses. Obtain medical attention.

• **After swallowing** Do NOT induce vomiting. Obtain medical attention.

• 4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

• 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

• 5.1 Extinguishing media

• **Suitable extinguishing agents** Alcohol resistant foam, CO₂, powders, water spray.

• **For safety reasons unsuitable extinguishing agents** Water jet.

• 5.2 Special hazards arising from the substance or mixture

Appropriate breathing apparatus may be required.

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- Cool closed containers exposed to fire with water.
- **5.3 Advice for firefighters**
- **Protective equipment:** No special measures required.
- **Additional information** Collect run-off from fire fighting.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Ventilate the area.
- **6.2 Environmental precautions:**
Do not allow to enter drains. If the product contaminates rivers and lakes or sewers inform respective authorities.
- **6.3 Methods and material for containment and cleaning up:**
Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local regulations. Clean preferably with a detergent. Avoid use of solvents.
- **6.4 Reference to other sections**
See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment.
See Section 13 for information on disposal.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Avoid inhalation of vapour. Smoking, eating and drinking should be prohibited in application area. For personal protection see Section 8. Comply with health and safety at work laws. Avoid concentrations higher than the occupational exposure limits (see Section 8), if applicable.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:**
Keep container tightly closed. No smoking.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
- **Further information about storage conditions:**
Always keep in containers of the same material as the original one. Store in a dry, well ventilated place. Keep away from heat and direct sunlight. Store in accordance with the particular national regulations concerning water pollution.
Note Instructions on the label.
- **7.3 Specific end use(s)** No further relevant information available.

* SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical systems:**
If relevant apply technical measures to comply with the occupational exposure limits. This can be by a good general extraction and-if practically feasible, be achieved by local exhaust ventilation.
- **8.1 Control parameters**
- **Components with critical values that require monitoring at the workplace:**
Numerical data - if specified - are taken from the valid national lists.
- **DNELs**
94108-97-1 2-[[[2,2-bis[[[(1-oxoallyl)oxy]methyl]butoxy]methyl]-2-ethyl-1,3-propanediyl diacrylate
Dermal DNEL workers 1.67 mg/kg bw/d (human)
Inhalative DNEL workers 5.88 mg/m³ (human) (chronic; systemic)

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52408-84-1 Glycerol, propoxylated, esters with acrylic acid

Dermal DNEL workers 1.92 mg/kg bw/d (human) (chronic; systemic)

Inhalative DNEL workers 16.2 mg/m³ (human) (chronic; systemic)

28961-43-5 Ethoxylated trimethylolpropane triacrylate

Dermal DNEL workers 0.8 mg/kg bw/d (human) (chronic; systemic)

Inhalative DNEL workers 16.2 mg/m³ (human) (chronic; systemic)

55818-57-0 4,4'-isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid

Dermal DNEL workers 17.5 mg/kg bw/d (human) (chronic; systemic)

Inhalative DNEL workers 122 mg/m³ (human) (chronic; systemic)

Pentaerythritol-Tri-/Tetracrylate

Inhalative DNEL workers 7.35 mg/m³ (human)

1384855-91-7 2-Propenoic acid, reaction products with dipentaerythiol

Dermal DNEL workers 0.5 mg/kg bw/d (human)

Inhalative DNEL workers 1.76 mg/m³ (human)

25068-38-6 reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)

Dermal DNEL workers 8.33 mg/kg bw/d (human) (chronic; systemic)

Inhalative DNEL workers 12.25 mg/m³ (human) (chronic; systemic)

119313-12-1 2-Benzyl-2-dimethylamino-4-morpholinobutyrophenone

Dermal DNEL workers 0.8 mg/kg bw/d (human) (chronic; systemic)

Inhalative DNEL workers 2.3 mg/m³ (human) (chronic; systemic)

PNECs

94108-97-1 2-[[[2,2-bis[[[(1-oxoallyl)oxy]methyl]butoxy]methyl]-2-ethyl-1,3-propanediyl] diacrylate

PNEC 0.098 mg/kg (soil)

PNEC STP 100 mg/l (STP)

52408-84-1 Glycerol, propoxylated, esters with acrylic acid

PNEC 0.00111 mg/kg (soil)

PNEC STP 10 mg/l (STP)

28961-43-5 Ethoxylated trimethylolpropane triacrylate

PNEC 0.006 mg/kg (soil)

PNEC STP 10 mg/l (STP)

55818-57-0 4,4'-isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid

PNEC 7.1 mg/kg (soil)

PNEC STP 10 mg/l (STP)

Pentaerythritol-Tri-/Tetracrylate

PNEC STP 10 mg/l (STP)

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1384855-91-7 2-Propenoic acid, reaction products with dipentaerythiol

PNEC 0.55 mg/kg (STP)

25068-38-6 reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight \leq 700)

PNEC 0.2 mg/kg (soil)

PNEC STP 10 mg/l (STP)

• **8.2 Exposure controls**

• **Personal protective equipment**

• **Breathing equipment:**

The use of respiratory protective measures, such as masks with filters for organic Vapours and dusts / mists are, in the absence of appropriate technical equipment, necessary for the protection of the employee. If exposure is above the exposure limit, then an appropriate, approved respirator must be worn. Please refer to the appropriate EU standard 14387.

• **Protection of hands:**

For prolonged or repeated contact use gloves.

Barrier creams may help to protect exposed skin, they should however not be applied once have come into contact with the product.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

• **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

• **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• **Eye protection:** Use safety eyewear designed to protect against splash of liquids.

• **Body protection:**

Working clothes must not consist of textiles which show a dangerous melting behaviour in case of fire.

All parts of the skin should be washed after contact.

SECTION 9: Physical and chemical properties

• **9.1 Information on basic physical and chemical properties**

• **General Information**

• **Appearance:**

Form: Solid according ADR Annex 2.3.4 or ASTM D 4359-90

Colour: according to the tradename of the product

• **Smell:** characteristic

• **Odour threshold:** Not determined.

• **pH-value:** Not determined.

• **Change in condition**

Melting point/freezing point: not determined

• **Flash point:** >100 °C

• **Inflammability (solid, gaseous)** Not applicable.

• **Decomposition temperature:** Not determined.

• **Self-inflammability:** Not determined.

• **Explosive properties:** Not determined.

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- **Critical values for explosion:**
 - Lower: approx. Not determined.
 - Upper: approx. Not determined.
- **Vapour pressure:** Not determined.
- **Density at 20 °C** 1.1155 g/cm³
- **Relative density** Not determined.
- **Vapour density** Not determined.
- **Evaporation rate** Not determined.
Not applicable.
- **Solubility in / Miscibility with**
 - Water:** partly or not miscible
- **Partition coefficient: n-octanol/water:** Not determined.
- **Viscosity:**
 - dynamic: Not determined.
 - kinematic: Not determined.
- **Organic solvents:** <0.025 %
- **Solid content:** 63.3 %
- **9.2 Other information** No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability** No further relevant information available.
- **10.3 Thermal decomposition / conditions to be avoided:**
Stable under recommended storage and handling conditions (see section 7).
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:**
Keep well away from oxidising agents and strongly alkaline or strongly acid materials in order to avoid exothermic reactions.
- **10.6 Hazardous decomposition products:**
Exposition to high temperatures may produce hazardous decomposition products such as: carbon dioxide, carbon monoxide and smoke.

SECTION 11: Toxicological information

The mixture has been assessed following the additivity method of the CLP Regulation (EC) No 1272/2008 and/or GHS -Regulation and classified for toxicological hazards accordingly. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in skin dryness. The product may be absorbed through the skin.

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.
- **LD/LC50 values that are relevant for classification:**

94108-97-1 2-[[[2-bis[[[(1-oxoallyl)oxy]methyl]butoxy]methyl]-2-ethyl-1,3-propanediyl diacrylate

Oral LD50 >5,000 mg/kg (rat)
Dermal LD50 >5,000 mg/kg (rabbit)
Inhalative LC50 >5,000 mg/m³ (rat)

52408-84-1 Glycerol, propoxylated, esters with acrylic acid

Oral LD50 >5,000 mg/kg (rat)

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Dermal LD50 >5,000 mg/kg (rabbit)

28961-43-5 Ethoxylated trimethylolpropane triacrylate

Oral LD50 >5,000 mg/kg (rat)

Dermal LD50 >13,200 mg/kg (rabbit)

55818-57-0 4,4'-isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid

Oral LD50 >5,000 mg/kg (rat)

Dermal LD50 >5,000 mg/kg (rat)

Inhalative LC50 >5,000 mg/m³ (rat)

10287-53-3 Ethyl-p-dimethylamino benzoate

Oral LD50 >5,000 mg/kg (rat)

Dermal LD50 >2,000 mg/kg (rabbit)

Inhalative LC50 >840 mg/m³ (rat)

21245-02-3 2-ethylhexyl 4-(dimethylamino)benzoate

Oral LD50 >5,000 mg/kg (rat)

Dermal LD50 >2,000 mg/kg (rat)

Pentaerythritol-Tri-/Tetracrylate

Oral LD50 1,350 mg/kg (rat)

Dermal LD50 >2,000 mg/kg (rabbit)

5495-84-1 2-isopropyl-9H-thioxanthen-9-one

Oral LD50 >2,000 mg/kg (rat)

Dermal LD50 >2,000 mg/kg (rat)

2128-93-0 4-Phenylbenzophenone

Oral LD50 4,700 mg/kg (rat)

1384855-91-7 2-Propenoic acid, reaction products with dipentaerythiol

Oral LD50 >2,000 mg/kg (rat)

Dermal LD50 >2,000 mg/kg (rabbit)

25068-38-6 reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight \leq 700)

Oral LD50 >5,000 mg/kg (rat)

Dermal LD50 >5,000 mg/kg (rabbit)

119313-12-1 2-Benzyl-2-dimethylamino-4-morpholinobutyrophenone

Oral LD50 >5,000 mg/kg (rat)

Dermal LD50 >2,000 mg/kg (rat)

• **Skin corrosion/irritation**

Causes skin irritation.

• **Serious eye damage/irritation**

Causes serious eye irritation.

• **Respiratory or skin sensitisation**

May cause an allergic skin reaction.

• **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

• **Germ cell mutagenicity** Based on available data, the classification criteria are not met.

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- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity**
May damage fertility or the unborn child. Route of exposure: Oral, Inhalation, Dermal.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

The Product should not be allowed to enter drains of water courses or soil.

- **12.1 Toxicity**
- **Aquatic toxicity:**

94108-97-1 2-[[[2,2-bis[[[(1-oxoallyl)oxy]methyl]butoxy]methyl]-2-ethyl-1,3-propanediyl diacrylate

Fish toxicity 1.2 mg/l (fish) (LC50 96h)
Daphnia toxicity >10 mg/l (daphnia) (RC50 48h)
Algae toxicity >12 mg/l (algae) (EC50 72h)

52408-84-1 Glycerol, propoxylated, esters with acrylic acid

Fish toxicity 5.74 mg/l (fish) (LC50; 96 h)
Daphnia toxicity 91.4 mg/l (daphnia) (EC50; 48 h)
Algae toxicity 12.2 mg/l (algae) (EC50; 72 h)

28961-43-5 Ethoxylated trimethylolpropane triacrylate

Fish toxicity 1.95 mg/l (fish) (LC50, 96 h)
Daphnia toxicity 70.7 mg/l (daphnia) (EC50; 48 h)
Algae toxicity 2.2 mg/l (algae) (ErC50; 72 h)

55818-57-0 4,4'-isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid

Fish toxicity >0.082 mg/l (fish)
Daphnia toxicity >16 mg/l (daphnia) (EC50; 48 h)
Algae toxicity 17 mg/l (algae) (EC50; 72 h)

Pentaerythritol-Tri-/Tetracrylate

Fish toxicity 3.2 mg/l (fish) (LC50; 96 h)
Daphnia toxicity 13 mg/l (daphnia) (EC50; 48 h)
Algae toxicity 33 mg/l (algae) (EC50; 96 h)

1384855-91-7 2-Propenoic acid, reaction products with dipentaerythiol

Fish toxicity 13 mg/l (fish) (LL50 96h)
Daphnia toxicity 35 mg/l (daphnia) (EL50 48h)
Algae toxicity >100 mg/l (algae) (EL 50 72h)

25068-38-6 reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight \leq 700)

Fish toxicity >3.6 mg/l (fish) (LC50; 96 h)
Daphnia toxicity 2.8 mg/l (daphnia) (EC50; 48 h)
Algae toxicity 9.1 mg/l (algae) (EC50; 48 h)

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119313-12-1 2-Benzyl-2-dimethylamino-4-morpholinobutyrophenone

Fish toxicity 0.46 mg/l (fish) (LC50; 96 h)

Daphnia toxicity >0.8 mg/l (daphnia) (EC50; 24 h)

Algae toxicity >2 mg/l (algae) (EC50; 72 h)

- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Harmful to fish
- **Additional ecological information:**
- **General notes:** Harmful to aquatic organisms
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation** Do not allow to enter drains.
- **European waste catalogue** 08 03 12: waste ink containing dangerous substances
- **Uncleaned packagings:** Waste
- **Recommendation:**
Emptied containers should be disposed off into scrap recycling or reconditioning respectively.
Not orderly emptied cans and ink remnants are special waste.

SECTION 14: Transport information

Not classified according to transport regulations for dangerous goods (like ADR/RID, IMDG and ICAO/IATA).

- **14.1 UN-Number**
- **ADR, ADN, IMDG, IATA** -
- **14.2 UN proper shipping name**
- **ADR, ADN, IMDG, IATA** -
- **14.3 Transport hazard class(es)**
- **ADR, ADN, IMDG, IATA**
- **Class** -
- **14.4 Packing group**
- **ADR, IMDG, IATA** -
- **14.5 Environmental hazards:**
- **Marine pollutant:** No
- **14.6 Special precautions for user** Not applicable.
- **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code** Not applicable.
- **UN "Model Regulation":** -

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SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3
- **National regulations**
The product is subject to classification in accordance with the prevailing version of the regulations on hazardous materials.
- **VOC-Content (EU):** 0.01 %
- **Swiss VOC-Regulation** 0.01 %
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

The information on this Safety Data Sheet is based on the present state of our knowledge and on current EU and national laws. The user's working conditions are beyond our knowledge and control. It is always the responsibility of the user to take all necessary steps in order to fulfil the demands laid down in the local rules and legislation. The information in this Safety Data Sheet is meant as a description of the safety requirements of our product: it is not to be considered as a guarantee of the product's properties.

- **Relevant phrases**
H302 Harmful if swallowed.
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.
H360 May damage fertility or the unborn child. Route of exposure: Oral, Inhalation, Dermal.
H360D May damage the unborn child. Route of exposure: Oral, Inhalation, Dermal.
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.
- **Abbreviations and acronyms:**
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Skin Sens. 1: Skin sensitisation – Category 1
Repr. 1B: Reproductive toxicity – Category 1B

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Safety data sheet
according to 1907/2006/EC, Article 31

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Repr. 1B: Reproductive toxicity – Category 1B

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4

· * **Data compared to the previous version altered.**