

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 29-8-2017 Revision date: 4-7-2023 Supersedes version of: 4-3-2021 Version: 4.1

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

#### 1.1. Product identifier

Product form : Mixture

 Product name
 : LUS-170 INK WHITE

 UFI
 : SUQ6-S392-E20M-SV5D

Product code : LUS17-W-BA
Product group : Trade product

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

#### 1.2.1. Relevant identified uses

Main use category : Industrial use, Professional use

Title	Use descriptors
LUS-170 INK WHITE	SU0, PC18, PROC1

Full text of use descriptors: see section 16

#### 1.2.2. Uses advised against

No additional information available

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

Mimaki Europe B.V. Stammerdijk 7E 1112 AA Diemen Netherlands T +31 20 4627640

reach@mimakieurope.com

### 1.4. Emergency telephone number

Emergency number : National Poisons Information Centre +31 (0)30 - 274 8888

(Only for the purpose of informing medical personnel in cases of accidental intoxications.

The emergency phone number is 24 hours/day available.)

Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER	+44 20 7188 7188	

## **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
Skin corrosion/irritation, Category 2 H315
Serious eye damage/eye irritation, Category 1 H318
Skin sensitisation, Category 1 H317
Carcinogenicity Not classified

Reproductive toxicity, Category 1B H360Df
Specific target organ toxicity – Repeated exposure, Category 1 H372
Hazardous to the aquatic environment – Chronic Hazard, Category 2 H411

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

## Adverse physicochemical, human health and environmental effects

No additional information available

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## 2.2. Label elements

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

Hazard pictograms (CLP)



Signal word (CLP) : Danger

Contains : 2-phenoxyethyl acrylate; tetrahydrofurfuryl acrylate; 1-vinylhexahydro-2H-azepin-2-one;

 $diphenyl (2,4,6-trimethylbenzoyl) phosphine\ oxide\ ;\ exo-1,7,7-trimethylbicyclo[2.2.1] hept-2-ylabel{eq:continuous} and the property of th$ 

acrylate; oxybis(methyl-2,1-ethanediyl) diacrylate

Hazard statements (CLP) : H302 - Harmful if swallowed.

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction. H318 - Causes serious eye damage.

H360Df - May damage the unborn child. Suspected of damaging fertility.

H372 - Causes damage to organs (liver, respiratory tract) through prolonged or repeated

exposure.

 $\mbox{H411}$  -  $\mbox{Toxic}$  to a quatic life with long lasting effects.

Precautionary statements (CLP) : P201 - Obtain special instructions before use.

P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
P280 - Wear protective gloves, eye protection, face protection.

P305+P351+P338+P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a

POISON CENTER or doctor.

P308+P313 - IF exposed or concerned: Get medical advice/attention.

P273 - Avoid release to the environment.

P391 - Collect spillage.

EUH-statements : EUH211 - Warning! Hazardous respirable droplets may be formed when sprayed. Do not

breathe spray or mist.

## 2.3. Other hazards

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

Component	
diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (75980-60-8)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, 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 is 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 %

Component	
diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (75980-60-8)	The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is 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

## **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

Not applicable

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#### 3.2. Mixtures

Name	Product identifier	% w/w (% w/w)	Classification according to Regulation (EC) No. 1272/2008 [CLP]
2-phenoxyethyl acrylate	CAS-No.: 48145-04-6 EC-No.: 256-360-6 REACH-no: 01-2119980532- 35	20 – 30	Skin Sens. 1A, H317 Repr. 2, H361d Aquatic Chronic 2, H411
tetrahydrofurfuryl acrylate	CAS-No.: 2399-48-6 EC-No.: 219-268-7 REACH-no: 01-2120738396- 46	20 – 30	Acute Tox. 4 (Oral), H302 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1B, H317 Repr. 1B, H360Df Aquatic Chronic 2, H411
titanium dioxide substance with national workplace exposure limit(s) (GB)	CAS-No.: 13463-67-7 EC-No.: 236-675-5 EC Index-No.: 022-006-00-2 REACH-no: 01-2119489379-	10 – 20	Carc. 2, H351
1-vinylhexahydro-2H-azepin-2-one	CAS-No.: 2235-00-9 EC-No.: 218-787-6 REACH-no: 01-2119977109- 27	10 – 20	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Eye Irrit. 2, H319 Skin Sens. 1B, H317 STOT RE 1, H372
oxybis(methyl-2,1-ethanediyl) diacrylate	CAS-No.: 57472-68-1 EC-No.: 260-754-3 REACH-no: 01-2119484629- 21	5 – 10	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317
diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide substance listed as REACH Candidate	CAS-No.: 75980-60-8 EC-No.: 278-355-8 EC Index-No.: 015-203-00-X REACH-no: 01-2119972295-	1 – 5	Repr. 2, H361fd
exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate	CAS-No.: 5888-33-5 EC-No.: 227-561-6 EC Index-No.: 607-756-00-6 REACH-no: 01-2119957862- 25	1 – 5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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 : Seek medical attention if ill effect develops. Do not breathe gas, fumes, vapour or spray.

Avoid contact with skin and eyes. Never give anything by mouth to an unconscious person.

IF exposed or concerned: Get medical advice/attention.

First-aid measures after inhalation : In case of accident by inhalation : remove casualty to fresh air and keep at rest. Consult a doctor/medical service if you feel unwell.

First-aid measures after skin contact : Seek medical attention if ill effect or irritation develops. Wash skin with mild soap and water. Wash contaminated clothing before reuse.

First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Remove contact lenses, if present and easy to do.

Continue rinsing. Immediately call a POISON CENTER/doctor.

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First-aid measures after ingestion

: If swallowed, seek medical advice immediately and show this container or label. Never give anything by mouth to an unconscious person. Rinse mouth. Do NOT induce vomiting.

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

Symptoms/effects

: May damage the unborn child. Suspected of damaging fertility. Causes damage to organs through prolonged or repeated exposure. liver. respiratory tract.

Symptoms/effects after inhalation : May cause an allergic skin reaction.

Symptoms/effects after skin contact : Causes skin irritation.
Symptoms/effects after eye contact : Causes serious eye damage.

Symptoms/effects after ingestion : Swallowing a small quantity of this material will result in serious health hazard.

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

Concerning personal protective equipment to use, see section 8. Treat symptomatically.

## **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media

: Carbon dioxide (CO2). Dry chemical. Alcohol resistant foam. Use extinguishing media

appropriate for surrounding fire.

Unsuitable extinguishing media

: Heavy water stream.

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

Reactivity in case of fire : Combustion produces toxic gases.

#### 5.3. Advice for firefighters

Firefighting instructions

: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire fighting water from entering the environment.

Protection during firefighting : Do not breat

: Do not breathe vapours. Do not enter fire area without proper protective equipment,

including respiratory protection.

Other information : May cause sensitization by inhalation and skin contact.

#### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures

: Avoid contact with skin and eyes. Keep public away from danger area.

#### 6.1.1. For non-emergency personnel

**Emergency procedures** 

: Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment

: For further information refer to section 8: "Exposure controls/personal protection". Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

Do not allow material to contaminate ground water system. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

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

Methods for cleaning up

: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Store away from other materials. Place in a suitable container for disposal in accordance with the waste regulations (see Section 13).

Other information : Clear contaminated areas thoroughly.

### 6.4. Reference to other sections

Concerning personal protective equipment to use, see section 8. See Section 12. Ecological information.

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### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Precautions for safe handling : Provide good ventilation in process area to prevent formation of vapour. Local exhaust or

breathing protection. Avoid inhalation of vapours. Use personal protective equipment as required. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Obtain special instructions before use. Do not

handle until all safety precautions have been read and understood.

Hygiene measures : Do not eat, drink or smoke when using this product. Handle in accordance with good

industrial hygiene and safety practice. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing

before reuse.

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

Storage conditions : Keep out of the reach of children. Keep only in the original container in a cool well ventilated

place. Keep container tightly closed.

Incompatible products : Strong bases. Strong acids.
Incompatible materials : Sources of ignition. Direct sunlight.

Storage area : Avoid: Direct sunlight. Store away from heat.

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

It is recommended to pass the information of this safety data sheet, eventually in an appropriated form, to the users.

## **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

## 8.1.1 National occupational exposure and biological limit values

titanium dioxide (13463-67-7)	
United Kingdom - Occupational Exposure Limits	
Local name	Titanium dioxide
WEL TWA (OEL TWA) [1]	4 mg/m³ respirable 10 mg/m³ total inhalable
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

#### 8.1.2. Recommended monitoring procedures

No additional information available

### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

2-phenoxyethyl acrylate (48145-04-6)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	1,5 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	10 mg/m³
Long-term - local effects, inhalation	77 mg/m³
PNEC (Water)	
PNEC aqua (freshwater)	2 μg/l
PNEC aqua (marine water)	0,2 μg/l
PNEC aqua (intermittent, freshwater)	0,0121 mg/l

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2-phenoxyethyl acrylate (48145-04-6)		
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	
tetrahydrofurfuryl acrylate (2399-48-6)		
DNEL/DMEL (Workers)		
Long-term - systemic effects, dermal	4,9 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	1,73 mg/m³	
DNEL/DMEL (General population)		
Long-term - systemic effects,oral	180 μg/kg dw	
Long-term - systemic effects, inhalation	300 μg/m³	
Long-term - systemic effects, dermal	1,75 mg/kg bodyweight/day	
PNEC (Water)		
PNEC aqua (freshwater)	3,92 µg/L	
PNEC aqua (marine water)	392 ng/l	
PNEC aqua (intermittent, freshwater)	39,2 μg/L	
PNEC (Sediment)		
PNEC sediment (freshwater)	20,6 µg/kg	
PNEC sediment (marine water)	2,1 μg/kg	
PNEC (Soil)		
PNEC soil	1,8 μg/kg	
PNEC (STP)		
PNEC sewage treatment plant	2,637 mg/l	
1-vinylhexahydro-2H-azepin-2-one (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/m³	
Long-term - local effects, inhalation	0,17 mg/m³	
DNEL/DMEL (General population)		
Long-term - systemic effects,oral	0,4 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	1,04 mg/m³	
Long-term - systemic effects, dermal	0,42 mg/kg bodyweight/day	
Long-term - local effects, inhalation	0,04 mg/m³	
PNEC (Water)		
PNEC aqua (freshwater)	0,1 mg/l	

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1-vinylhexahydro-2H-azepin-2-one (2235-00-9)		
PNEC aqua (marine water)	0,01 mg/l	
PNEC aqua (intermittent, freshwater)	1 mg/l	
PNEC (Sediment)		
PNEC sediment (freshwater)	0,829 mg/kg dwt	
PNEC sediment (marine water)	0,0829 mg/kg dwt	
PNEC (Soil)		
PNEC soil	0,107 mg/kg dwt	
PNEC (STP)		
PNEC sewage treatment plant	262 mg/l	
diphenyl(2,4,6-trimethylbenzoyl)phosphine ox	ride (75980-60-8)	
DNEL/DMEL (Workers)		
Long-term - systemic effects, dermal	0,233 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	0,822 mg/m³	
DNEL/DMEL (General population)		
Long-term - systemic effects,oral	83,3 µg/kg bodyweight/day	
Long-term - systemic effects, inhalation	0,145 mg/m³	
Long-term - systemic effects, dermal	83,3 µg/kg bodyweight/day	
PNEC (Water)		
PNEC aqua (freshwater)	1,4 μg/l	
PNEC aqua (marine water)	0,14 μg/l	
PNEC aqua (intermittent, freshwater)	14 μg/l	
PNEC aqua (intermittent, marine water)	1,4 μg/l	
PNEC (Sediment)		
PNEC sediment (freshwater)	0,115 mg/kg dwt	
PNEC sediment (marine water)	11,5 µg/kg dw	
PNEC (Soil)		
PNEC soil	22,2 µg/kg dw	
exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acry	vlate (5888-33-5)	
DNEL/DMEL (Workers)		
Long-term - systemic effects, dermal	1,39 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	4,9 mg/m³	
DNEL/DMEL (General population)		
Long-term - systemic effects,oral	0,83 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	1,45 mg/m³	
Long-term - systemic effects, dermal	0,83 mg/kg bodyweight/day	
PNEC (Water)		
PNEC aqua (freshwater)	0,00092 mg/l	
PNEC aqua (marine water)	0,000092 mg/l	

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exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate (5888-33-5)		
PNEC aqua (intermittent, freshwater)	0,00704 mg/l	
PNEC (Sediment)		
PNEC sediment (freshwater)	0,145 mg/kg dwt	
PNEC sediment (marine water)	0,0145 mg/kg dwt	
PNEC (Soil)		
PNEC soil	0,0285 mg/kg dwt	
PNEC (STP)		
PNEC sewage treatment plant	2 mg/l	
oxybis(methyl-2,1-ethanediyl) diacrylate (574)	72-68-1)	
DNEL/DMEL (Workers)		
Long-term - systemic effects, dermal	2,77 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	24,48 mg/m³	
DNEL/DMEL (General population)		
Long-term - systemic effects,oral	2,08 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	7,24 mg/m³	
Long-term - systemic effects, dermal	1,66 mg/kg bodyweight/day	
PNEC (Water)		
PNEC aqua (freshwater)	0,0034 mg/l	
PNEC aqua (marine water)	0,00034 mg/l	
PNEC aqua (intermittent, freshwater)	0,034 mg/l	
PNEC (Sediment)		
PNEC sediment (freshwater)	0,00884 mg/kg dwt	
PNEC (Soil)		
PNEC soil	0,0013 mg/kg dwt	
PNEC (STP)		
PNEC sewage treatment plant	100 mg/l	
titanium dioxide (13463-67-7)		
DNEL/DMEL (Workers)		
Long-term - local effects, inhalation	10 mg/m³	
DNEL/DMEL (General population)		
Long-term - systemic effects,oral	700 mg/kg bodyweight/day	
PNEC (Water)		
PNEC aqua (freshwater)	0,184 mg/l	
PNEC aqua (marine water)	0,0184 mg/l	
PNEC aqua (intermittent, freshwater)	0,193 mg/l	
PNEC (Sediment)		
PNEC sediment (freshwater)	1000 mg/kg dwt	
PNEC sediment (marine water)	100 mg/kg dwt	

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titanium dioxide (13463-67-7)	
PNEC (Soil)	
PNEC soil 100 mg/kg dwt	
PNEC (STP)	
PNEC sewage treatment plant	100 mg/l

#### 8.1.5. Control banding

No additional information available

## 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

#### Appropriate engineering controls:

Ensure that there is a suitable ventilation system.

#### 8.2.2. Personal protection equipment

## Personal protective equipment:

Safety glasses. Gloves. Protective clothing. Avoid all unnecessary exposure.

#### Personal protective equipment symbol(s):







## 8.2.2.1. Eye and face protection

#### Eye protection:

Chemical goggles or safety glasses (acc. EN 166)

### 8.2.2.2. Skin protection

## Skin and body protection:

Wear suitable protective clothing. Standard. EN 13034

#### Hand protection:

Wear suitable gloves resistant to chemical penetration. Breakthrough time (EN 374-3:2003): > 480 min (www.echa.europa.eu). Nitrile rubber gloves (0,4 mm). Chloroprene rubber (0,5mm). Polyvinylchloride (PVC). Wear protective gloves.

#### 8.2.2.3. Respiratory protection

#### Respiratory protection:

Provide adequate ventilation. In case of inadequate ventilation wear respiratory protection. Extra personal protection: A/P2 filter respirator for organic vapour and harmful dust. Standard. EN 14387

## 8.2.2.4. Thermal hazards

No additional information available

### 8.2.3. Environmental exposure controls

#### **Environmental exposure controls:**

Do not discharge into drains or the environment.

#### Other information:

Do not eat, drink or smoke during use.

## **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical state : Liquid
Colour : white.
Odour
Odour : characteristic.
Odour threshold : Not available

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: Not available Melting point Freezing point : Not available Boiling point : Not available Flammability Non flammable. **Explosive limits** Not available Lower explosion limit Not available Upper explosion limit : Not available : 95 °C Flash point Auto-ignition temperature : Not available Decomposition temperature : Not available : Not available рΗ Viscosity, kinematic : Not available

Viscosity, dynamic : 7 – 12 mPa·s @ 25°C Solubility : Water: insoluble in water

Partition coefficient n-octanol/water (Log Kow) : Not available Vapour pressure : Not available Vapour pressure at 50°C : Not available Density : Not available Relative density : 1 – 1,1 Relative vapour density at 20°C : Not available Particle characteristics : Not applicable

#### 9.2. Other information

## 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

VOC content : < 30 %

## **SECTION 10: Stability and reactivity**

## 10.1. Reactivity

Stable under normal conditions.

#### 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

Heat. Sparks. Open flame. Direct sunlight. Extremely high or low temperatures.

## 10.5. Incompatible materials

Strong oxidizers. Powdered metals.

#### 10.6. Hazardous decomposition products

No hazardous decomposition products known.

## **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
Acute toxicity (inhalation) : Not classified

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2-phenoxyethyl acrylate (48145-04-6)	2-phenoxyethyl acrylate (48145-04-6)		
LD50 oral rat	5000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 401 (Acute Oral Toxicity)		
LD50 dermal rat	2000 mg/kg		
tetrahydrofurfuryl acrylate (2399-48-6)			
LD50 oral rat	928 mg/kg bodyweight		
1-vinylhexahydro-2H-azepin-2-one (2235-00-	-9)		
LD50 oral rat	1114 mg/kg		
LD50 dermal rat	1700 mg/kg		
LC50 Inhalation - Rat	1,6 mg/l (8h)		
diphenyl(2,4,6-trimethylbenzoyl)phosphine	oxide (75980-60-8)		
LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), Remarks on results: other:		
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal)), Guideline: EPA OPPTS 870.1200 (Acute Dermal Toxicity), Guideline: other:, Remarks on results: other:		
exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ac	rylate (5888-33-5)		
LD50 oral rat	5750 mg/kg		
LD50 dermal rabbit	> 3000 mg/kg bodyweight Animal: rabbit, Animal sex: male, Guideline: other:pre-guideline		
oxybis(methyl-2,1-ethanediyl) diacrylate (57	472-68-1)		
LD50 oral rat	3530 mg/kg		
LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)		
titanium dioxide (13463-67-7)			
LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down Procedure), Guideline: EPA OPPTS 870.1100 (Acute Oral Toxicity)		
Skin corrosion/irritation Additional information	Causes skin irritation.     On basis of test data     not corrosive     GLP OECD TG431		
titanium dioxide (13463-67-7)			
рН	7		
Serious eye damage/irritation	: Causes serious eye damage.		
titanium dioxide (13463-67-7)			
рН	7		
	: May cause an allergic skin reaction.		
Germ cell mutagenicity	: Not classified		
Additional information	: Based on available data, the classification criteria are not met		
Carcinogenicity	: Not classified.		
Additional information	: Based on available data, the classification criteria are not met		
Reproductive toxicity	: May damage the unborn child. Suspected of damaging fertility.		

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NOAEL (animal/female, F0/P)	300 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicit Screening Test)	
TOT-single exposure : dditional information :	Not classified  Based on available data, the classification criteria are not met	
diphenyl(2,4,6-trimethylbenzoyl)phosphine o	xide (75980-60-8)	
OAEL (oral, rat)	250 – 300 mg/kg bodyweight	
NOAEL (oral, rat)	50 – 100 mg/kg bodyweight/day	
exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acr	ylate (5888-33-5)	
NOAEL (oral, rat)	84 – 111 mg/kg bodyweight/day	
STOT-single exposure	May cause respiratory irritation.	
TOT-repeated exposure :	Causes damage to organs (liver, respiratory tract) through prolonged or repeated exposure	
2-phenoxyethyl acrylate (48145-04-6)		
NOAEL (oral, rat, 90 days)	300 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)	
tetrahydrofurfuryl acrylate (2399-48-6)		
NOAEL (oral, rat, 90 days)	35 mg/kg bodyweight/day	
1-vinylhexahydro-2H-azepin-2-one (2235-00-9)		
LOAEC (inhalation, rat, vapour, 90 days)	0,181 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity 90-Day Study), Guideline: EU Method B.29 (Sub-Chronic Inhalation Toxicity:90-Day Study)	
NOAEL (subacute, oral, animal/male, 28 days)	50 mg/kg bodyweight NOAEL (oral, rat)	
NOAEL (subacute, oral, animal/female, 28 days)	50 mg/kg bodyweight NOAEL (oral, rat)	
STOT-repeated exposure	Causes damage to organs (liver, respiratory tract) through prolonged or repeated exposure.	
diphenyl(2,4,6-trimethylbenzoyl)phosphine o	xide (75980-60-8)	
NOAEL (subacute, oral, animal/male, 28 days)	50 mg/kg bodyweight NOAEL (oral, rat)	
NOAEL (subacute, oral, animal/female, 28 days)	50 mg/kg bodyweight NOAEL (oral, rat)	
exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acr	ylate (5888-33-5)	
NOAEL (oral, rat, 90 days)	100 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)	
oxybis(methyl-2,1-ethanediyl) diacrylate (574	72-68-1)	
NOAEL (oral, rat, 90 days)	250 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)	
spiration hazard : dditional information :	Not classified Based on available data, the classification criteria are not met	
2-phenoxyethyl acrylate (48145-04-6)		
viscosity, kinematic	≈ 10,136 mm²/s	
1-vinylhexahydro-2H-azepin-2-one (2235-00-9)		
Viscosity, kinematic	3,5 – 6,16 mm²/s	

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oxybis(methyl-2,1-ethanediyl) diacrylate (57472-68-1)	
Viscosity, kinematic	9,41 mm²/s

## 11.2. Information on other hazards

#### 11.2.1. Endocrine disrupting properties

No additional information available

## 11.2.2. Other information

Potential adverse human health effects and symptoms

: Harmful if swallowed.

## **SECTION 12: Ecological information**

## 12.1. Toxicity

Ecology - water

Hazardous to the aquatic environment, short–term

(acute)

Hazardous to the aquatic environment, long-term

(chronic)

: Harmful to aquatic life with long lasting effects.: Not classified

: Toxic to aquatic life with long lasting effects.

2-phenoxyethyl acrylate (48145-04-6)		
LC50 - Fish [1]	10 mg/l Test organisms (species): Leuciscus idus	
LC50 - Fish [2]	10 mg/l (72 h)	
EC50 - Crustacea [1]	1,21 mg/l Test organisms (species): Daphnia magna	
EC50 - Crustacea [2]	3,85 mg/l (24 h)	
EC50 - Other aquatic organisms [1]	24h	
EC50 72h - Algae [1]	4,4 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)	
EC50 72h - Algae [2]	1,7 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)	
EC50 96h - Algae [1]	4,1 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)	
EC50 96h - Algae [2]	1,33 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)	
tetrahydrofurfuryl acrylate (2399-48-6)		
LC50 - Fish [1]	7,32 mg/l	
EC50 - Crustacea [1]	37,7 mg/l	
EC50 72h - Algae [1]	3,92 mg/l	
EC50 72h - Algae [2]	2,71 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)	
1-vinylhexahydro-2H-azepin-2-one (2235-00-9)		
LC50 - Fish [1]	307 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)	
EC50 - Crustacea [1]	> 100 mg/l Test organisms (species): Daphnia magna	
EC50 72h - Algae [1]	> 100 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)	
NOEC (chronic)	5,75 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	
NOEC chronic fish	215 mg/l (96h)	

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1-vinylhexahydro-2H-azepin-2-one (2235-00-9)				
NOEC chronic algae	25 mg/l (72h)			
diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (75980-60-8)				
LC50 - Fish [1]	1,4 mg/l Test organisms (species): Cyprinus carpio			
LC50 - Fish [2]	6,53 mg/l (48h)			
EC50 - Crustacea [1]	3,53 mg/l Test organisms (species): Daphnia magna			
EC50 72h - Algae [1]	> 2,01 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)			
exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acry	rlate (5888-33-5)			
LC50 - Fish [1]	0,704 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)			
EC50 72h - Algae [1]	1,98 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)			
EC50 72h - Algae [2]	0,596 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)			
LOEC (chronic)	0,277 mg/l Test organisms (species): Daphnia magna Duration: '21 d'			
NOEC (acute)	0,153 – 0,405			
NOEC (chronic)	0,092 mg/l Test organisms (species): Daphnia magna Duration: '21 d'			
oxybis(methyl-2,1-ethanediyl) diacrylate (5747	72-68-1)			
LC50 - Fish [1]	2,2 – 4,64 mg/l Test organisms (species): Leuciscus idus			
EC50 - Crustacea [1]	22,3 mg/l Test organisms (species): Daphnia magna			
EC50 72h - Algae [1]	16,7 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)			
NOEC chronic fish	1 mg/l			
titanium dioxide (13463-67-7)				
LC50 - Fish [1]	155 mg/l Test organisms (species): other:Japanese Medaka			
EC50 - Crustacea [1]	19,3 mg/l Test organisms (species): Daphnia magna			
EC50 - Crustacea [2]	27,8 mg/l Test organisms (species): Daphnia magna			
EC50 - Other aquatic organisms [1]	> 100 mg/l Test organisms (species):			
EC50 72h - Algae [1]	> 100 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)			
LOEC (chronic)	5 mg/l Test organisms (species): Daphnia magna Duration: '21 d'			
NOEC (chronic)	≥ 2,92 mg/l Test organisms (species): Daphnia magna Duration: '21 d'			
12.2 Persistence and degradability				

## 12.2. Persistence and degradability

LUS-170 INK WHITE	
Persistence and degradability	May cause long-term adverse effects in the environment.

## 12.3. Bioaccumulative potential

LUS-170 INK WHITE	
Bioaccumulative potential	Not established.

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2-phenoxyethyl acrylate (48145-04-6)				
Partition coefficient n-octanol/water (Log Pow) 2,58 @ 25°C				
tetrahydrofurfuryl acrylate (2399-48-6)				
Partition coefficient n-octanol/water (Log Pow)	Partition coefficient n-octanol/water (Log Pow) 0,81 @ 21.7 °C			
1-vinylhexahydro-2H-azepin-2-one (2235-00-9)				
Partition coefficient n-octanol/water (Log Pow) 1,2 – 1,242 @ 23 - 25 °C and pH 7.2				
diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (75980-60-8)				
Partition coefficient n-octanol/water (Log Pow) 3,1 – 3,87 @ 23 °C and pH 6.4				
exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate (5888-33-5)				
Partition coefficient n-octanol/water (Log Pow) 4,52 @ 20°C				

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Results of PBT and vPvB assessment

Component	
diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (75980-60-8)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

## 12.6. Endocrine disrupting properties

No additional information available

#### 12.7. Other adverse effects

Additional information : Avoid release to the environment.

## **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

Regional legislation (waste)

Product/Packaging disposal recommendations

Ecology - waste materials

European List of Waste (LoW) code

HP Code

- : Disposal must be done according to official regulations.
- Dispose in a safe manner in accordance with local/national regulations.
- : Avoid release to the environment.
- : 08 03 12\* waste ink containing dangerous substances
- : HP5 "Specific Target Organ Toxicity (STOT)/Aspiration Toxicity:" waste which can cause specific target organ toxicity either from a single or repeated exposure, or which cause acute toxic effects following aspiration.
  - HP6 "Acute Toxicity:" waste which can cause acute toxic effects following oral or dermal administration, or inhalation exposure.
  - HP7 "Carcinogenic:" waste which induces cancer or increases its incidence
  - HP8 "Corrosive:" waste which on application can cause skin corrosion.
  - HP13 "Sensitising:" waste which contains one or more substances known to cause sensitising effects to the skin or the respiratory organs.
  - HP14 "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment

## **SECTION 14: Transport information**

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

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ADR	IMDG	IATA	ADN	RID		
14.1. UN number or ID number						
UN 3082	UN 3082	UN 3082	UN 3082	UN 3082		
14.2. UN proper shippin	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 descr	iption					
UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (exo-1,7,7- trimethylbicyclo[2.2.1]hept- 2-yl acrylate; 2- phenoxyethyl acrylate), 9, III, (-)	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (exo-1,7,7- trimethylbicyclo[2.2.1]hept- 2-yl acrylate; 2- phenoxyethyl acrylate), 9, III, MARINE POLLUTANT	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate; 2-phenoxyethyl acrylate), 9,	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (exo-1,7,7- trimethylbicyclo[2.2.1]hept- 2-yl acrylate; 2- phenoxyethyl acrylate), 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (exo-1,7,7- trimethylbicyclo[2.2.1]hept- 2-yl acrylate; 2- phenoxyethyl acrylate), 9, III		
14.3. Transport hazard of	class(es)					
9	9	9	9	9		
	**************************************	**************************************				
14.4. Packing group						
III	III	III	III	III		
14.5. Environmental haz	zards					
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes		
No supplementary information	n available	<u> </u>		<u> </u>		

## 14.6. Special precautions for user

#### **Overland transport**

Classification code (ADR) : M6

Special provisions (ADR) : 274, 335, 375, 601

Limited quantities (ADR) : 5l 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 : TP1, TP29

(ADR)

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 : CV13

and handling (ADR)

Hazard identification number (Kemler No.) : 90

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Orange plates : 90

3082

: A

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) : TP2, TP29 EmS-No. (Fire) : F-A EmS-No. (Spillage) : S-F

Air transport

Stowage category (IMDG)

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

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 : TP1, TP29

(RID)

Tank codes for RID tanks (RID) : LGBV

Transport category (RID) : 3

Special provisions for carriage – Packages (RID) : W12

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

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### **SECTION 15: Regulatory information**

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

#### 15.1.1. EU-Regulations

#### **REACH Annex XVII (Restriction List)**

EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	Entry title or description
3(b)	LUS-170 INK WHITE; 2- phenoxyethyl acrylate; tetrahydrofurfuryl acrylate; 1-vinylhexahydro-2H- azepin-2-one; exo-1,7,7- trimethylbicyclo[2.2.1]hept -2-yl acrylate; oxybis(methyl-2,1- ethanediyl) diacrylate	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10
3(c)	LUS-170 INK WHITE; 2- phenoxyethyl acrylate; tetrahydrofurfuryl acrylate; exo-1,7,7- trimethylbicyclo[2.2.1]hept -2-yl acrylate	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1

#### **REACH Annex XIV (Authorisation List)**

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

## **REACH Candidate List (SVHC)**

Contains substance(s) listed on the REACH Candidate List in concentrations ≥ 0.1 % or SCL: diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (EC 278-355-8, CAS 75980-60-8)

## **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)

### VOC Directive (2004/42)

VOC content : < 30 %

#### **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)

#### 15.1.2. National regulations

No additional information available

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

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## **SECTION 16: Other information**

Indication of changes			
Section Changed item Change Comments			
	Supersedes	Modified	
	Revision date	Modified	
15		Added	

Abbreviations and ac	ronyms:
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
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
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
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
STP	Sewage treatment plant
TLM	Median Tolerance Limit
SDS	Safety Data Sheet
vPvB	Very Persistent and Very Bioaccumulative
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
ED	Endocrine disrupting properties
EC-No.	European Community number
EN	European Standard

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Abbreviations and acronyms:		
IOELV	Indicative Occupational Exposure Limit Value	
N.O.S.	Not Otherwise Specified	
OEL	Occupational Exposure Limit	
ThOD	Theoretical oxygen demand (ThOD)	
TRGS	Technical Rules for Hazardous Substances	
VOC	Volatile Organic Compounds	
WGK	Water Hazard Class	

Data sources

: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Full text of H- and EUH-statements:				
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), 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			
Carc. 2	Carcinogenicity, Category 2			
EUH211	Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.			
Eye Dam. 1	Serious eye damage/eye irritation, Category 1			
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2			
H302	Harmful if swallowed.			
H312	Harmful in contact with skin.			
H314	Causes severe skin burns and eye damage.			
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.			
H351	Suspected of causing cancer.			
H360Df	May damage the unborn child. Suspected of damaging fertility.			
H361d	Suspected of damaging the unborn child.			
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.			
H372	Causes damage to organs through prolonged or repeated exposure.			
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.			
Repr. 1B	Reproductive toxicity, Category 1B			
Repr. 2	Reproductive toxicity, Category 2			

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Full text of H- and EUH-statements:			
Skin Corr. 1C	Skin corrosion/irritation, Category 1, Sub-Category 1C		
Skin Irrit. 2	Skin corrosion/irritation, Category 2		
Skin Sens. 1	Skin sensitisation, Category 1		
Skin Sens. 1A	Skin sensitisation, category 1A		
Skin Sens. 1B	Skin sensitisation, category 1B		
STOT RE 1	Specific target organ toxicity – Repeated exposure, Category 1		
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation		

Full text of use descriptors		
PC18	Ink and Toners	
PROC1	Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions	
SU0	Other	

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:				
Acute Tox. 4 (Oral)	H302	Expert judgement		
Skin Irrit. 2	H315	Expert judgement		
Eye Dam. 1	H318	Calculation method		
Skin Sens. 1	H317	Calculation method		
Carc. Not classified		Expert judgement		
Repr. 1B	H360Df	Expert judgement		
STOT RE 1	H372	Calculation method		
Aquatic Chronic 2	H411	Calculation method		

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.