

Product name: ARIGI UV HD2 MAGENTA INK

**SDS No.:** 000001017131 Version: 1.2

Issue Date: 09.04.2021 Last revised date: 09.04.2021

### SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended

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

1.1 Product identifier

Product name: ARIGI UV HD2 MAGENTA INK

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

Identified uses: Printing ink

**Uses advised against:** Reserved for industrial and professional use.

1.3 Details of the supplier of the safety data sheet

Manufacturer

Agfa NV **Telephone:** +32 3 4442111

Septestraat 27 Fax: +32 3 4447094

2640 Mortsel E-mail: electronic.sds@agfa.com

Belgium

**National Supplier** 

Agfa NV - UK Branch Telephone: +44 (0)20 8 231 4616

Units 1 & 2 Ashbourne Court, Fax: +44 (0)20 8 231 4951

Manners Industrial Estate E-mail: electronic.sds@agfa.com

DE7 8EF Ilkeston United Kingdom

1.4 Emergency telephone number:

Emergency telephone number (Belgium): +32 3 4443333 (24h/24h)

#### **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

The product has been classified according to the legislation in force.

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

### **Health Hazards**

Skin irritation Category 2 H315: Causes skin irritation.

Serious eye damage Category 1 H318: Causes serious eye damage.

Skin sensitizer Category 1 H317: May cause an allergic skin reaction. Toxic to reproduction Category 1B H360Df: May damage the unborn child.

Suspected of damaging fertility.

**Environmental Hazards** 

Chronic hazards to the aquatic Category 3 H412: Harmful to aquatic life with long lasting

environment effects.

#### 2.2 Label Elements

**Contains:** Oxybis(methyl-2,1-ethanediyl) diacrylate

2-(2-Vinyloxyethoxy) ethyl acrylate

Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

Ethyl 4-dimethylaminobenzoate

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Signal Word: Danger

Hazard Statement(s): H315: Causes skin irritation.

H318: Causes serious eye damage.

H317: May cause an allergic skin reaction.

H360Df: May damage the unborn child. Suspected of damaging

fertility.

H412: Harmful to aquatic life with long lasting effects.

**Precautionary Statements** 

**Prevention:** P201: Obtain special instructions before use.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face

protection.

Response: P305+P351+P338: IF IN EYES: Rinse cautiously with water for several

minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

P308+P313: IF exposed or concerned: Get medical advice/attention. P310: Immediately call a POISON CENTER or doctor/ physician.

2.3 Other hazards Not fulfilling PBT (persistent/bioaccumulative/toxic) criteria Not fulfilling

vPvB (very persistent/very bioaccummulative) criteria

**Endocrine Disruption-Toxicity** 

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission

Regulation (EU) 2018/605 at levels of 0.1% or higher.

**Endocrine Disruption-Ecotoxicity** 

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission

Regulation (EU) 2018/605 at levels of 0.1% or higher.

### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

Chemical name	Concentration	CAS-No.	EC No.	REACH Registration No.	M-Factor:	Notes
Oxybis(methyl -2,1- ethanediyl) diacrylate	50 - <100%	57472-68-1	260-754-3	01- 2119484629- 21-XXXX;	No data available.	
2-(2- Vinyloxyethox v) ethyl	5 - <10%	86273-46-3	451-690-9	01- 2119441302-	No data	

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acrylate				54-XXXX;	available.	
Diphenyl(2,4,6 - trimethylbenzo yl)phosphine oxide	3 - <5%	75980-60-8	278-355-8	01- 2119972295- 29-XXXX;	No data available.	
Phenyl bis(2,4,6- trimethylbenzo yl)-phosphine oxide	1 - <5%	162881-26-7	423-340-5	01- 2119489401- 38-0001;	No data available.	
Ethyl 4- dimethylamino benzoate	2.5 - <5%	10287-53-3	233-634-3	No data available.	No data available.	
2-Isopropyl- 9H- thioxanthen-9- one	1 - <5%	5495-84-1	226-827-9	No data available.	No data available.	
2-Propenoic acid ,1-6- hexanediyl ester, polymer with 2- aminoethanol	1 - <5%	67906-98-3		No data available.	No data available.	
hexamethylen e diacrylate; hexane-1,6- diol diacrylate	0.1 - <1%	13048-33-4	235-921-9	01- 2119484737- 22-XXXX;	No data available.	
2,6-di-tert- Butyl-p-cresol	0.1 - <0.25%	128-37-0	204-881-4	01- 2119555270- 46-0000;	Aquatic Toxicity (Acute): 1; Aquatic Toxicity (Chronic): 1	#

<sup>\*</sup> All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

### Classification

Chemical name	Classification	Notes
Oxybis(methyl-2,1-	Classification: Skin Sens.: 1: H317; Eye Dam.: 1: H318; Skin	No data
ethanediyl) diacrylate	Irrit.: 2: H315;	available.
2-(2-Vinyloxyethoxy) ethyl acrylate	Classification: Skin Sens.: 1: H317; Acute Tox.: 4: H302; Aquatic Chronic: 3: H412;	No data available.
	Acute toxicity, oral: LD 50: 1,790 mg/kg Acute toxicity, inhalation: LC 50: > 5.04 mg/l	

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<sup>#</sup> This substance has workplace exposure limit(s).

<sup>##</sup> This substance is listed as SVHC.



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	Acute toxicity, dermal: LD 50: > 2,000 mg/kg	
Diphenyl(2,4,6- trimethylbenzoyl)phosphin e oxide	Classification: Repr.: 2: H361f; Skin Sens.: 1: H317; Aquatic Chronic: 2: H411;	No data available.
Phenyl bis(2,4,6- trimethylbenzoyl)- phosphine oxide	Classification: Skin Sens.: 1A: H317; Aquatic Chronic: 4: H413;	No data available.
Ethyl 4- dimethylaminobenzoate	Classification: Repr.: 1B: H360; Aquatic Chronic: 2: H411;	No data available.
2-Isopropyl-9H- thioxanthen-9-one	Classification: STOT RE: 2: H373;	No data available.
2-Propenoic acid ,1-6- hexanediyl ester, polymer with 2-aminoethanol	Classification: Skin Irrit.: 2: H315; Eye Irrit.: 2: H319;	No data available.
hexamethylene diacrylate; hexane-1,6-diol diacrylate	Classification: Skin Irrit.: 2: H315; Eye Irrit.: 2: H319; Skin Sens.: 1: H317; Aquatic Acute: 1: H400; Aquatic Chronic: 2: H411;	No data available.
2,6-di-tert-Butyl-p-cresol	Classification: Aquatic Acute: 1: H400; Aquatic Chronic: 1: H410;	No data available.

CLP: Regulation No. 1272/2008.

The full text for all H-statements is displayed in section 16.

### **SECTION 4: First aid measures**

**General:** Get medical attention if symptoms occur.

4.1 Description of first aid measures

**Inhalation:** Move to fresh air.

**Skin Contact:** Get medical attention. Destroy or thoroughly clean contaminated shoes.

Immediately remove contaminated clothing and shoes and wash skin with soap and plenty of water. If skin irritation or an allergic skin reaction

develops, get medical attention.

**Eye contact:** Immediately flush with plenty of water for at least 15 minutes. If easy to do,

remove contact lenses. Call a physician or poison control center

immediately.

**Ingestion:** Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.

Personal Protection for First-aid Responders: CAUTION! First aid personnel must be aware of own risk during rescue!

See Section 8 of the SDS for Personal Protective Equipment.

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

See section 11 of the SDS for additional information on health hazards.

4.3 Indication of any immediate medical attention and special treatment needed

**Hazards:** See section 11 of the SDS for additional information on health hazards.

**Treatment:** Treat symptomatically.

### **SECTION 5: Firefighting measures**

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**General Fire Hazards:** No unusual fire or explosion hazards noted.

5.1 Extinguishing media Suitable extinguishing

media:

Extinguish with foam, carbon dioxide, dry powder or water fog.

Unsuitable extinguishing

media:

Do not use water jet as an extinguisher, as this will spread the fire.

5.2 Special hazards arising from the substance or

mixture:

During fire, gases hazardous to health may be formed.

5.3 Advice for firefighters

Special fire fighting procedures:

No data available.

Special protective

equipment for fire-fighters:

Self-contained breathing apparatus and full protective clothing must be

worn in case of fire.

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

6.1 Personal precautions, protective equipment and emergency procedures:

See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.

6.1.1 For non-emergency personnel:

Use personal protective equipment.

6.1.2 For emergency responders:

Warn everybody of potential hazards and evacuate if necessary. Use personal protective equipment.

6.2 Environmental Precautions:

Avoid release to the environment. Prevent entry into waterways, sewer, basements or confined areas. Contact local authorities in case of spillage to drain/aquatic environment. Do not contaminate water sources or sewer.

6.3 Methods and material for containment and cleaning up:

Prevent further leakage or spillage if safe to do so. Stop the flow of material, if this is without risk. Small Spillages: Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Clean surface thoroughly to remove residual contamination. Large Spillages: Dike far ahead of larger spill for later

recovery and disposal.

6.4 Reference to other sections:

See Section 8 of the SDS for Personal Protective Equipment. For waste disposal, see section 13 of the SDS.

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

7.1 Precautions for safe handling: Do not get in eyes. Wash hands thoroughly after handling. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Avoid contact with skin. Avoid contact with eyes, skin, and clothing.

7.2 Conditions for safe storage, including any incompatibilities:

Store locked up.

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**7.3 Specific end use(s):** Reserved for industrial and professional use.

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

### **8.1 Control Parameters**

**Occupational Exposure Limits** 

Chemical name	Туре	Exposure Limit Values	Source
2,6-di-tert-Butyl-p-cresol	TWA	10 mg/m3	UK. EH40 Workplace Exposure Limits (WELs), as amended (12 2011)

### **Biological Limit Values**

None of the components have assigned exposure limits.

### **DNEL-Values**

Critical component	Туре	Route of Exposure	Health Warnings	Remarks
Oxybis(methyl-2,1-ethanediyl) diacrylate	Workers	Inhalation	Systemic, long-term; 24.48 mg/m3	Repeated dose toxicity
	General population	Inhalation	Systemic, long-term; 7.24 mg/m3	Repeated dose toxicity
	Workers	Eyes	Local effect;	No data available
	General population	Eyes	Local effect;	No data available
	Workers	Dermal	Systemic, long-term; 2.77 mg/kg	Repeated dose toxicity
	General population	Oral	Systemic, long-term; 2.08 mg/kg	Repeated dose toxicity
	General population	Dermal	Systemic, long-term; 1.66 mg/kg	Repeated dose toxicity
2-(2-Vinyloxyethoxy) ethyl acrylate	Workers	Inhalation	Systemic, long-term; 1.97 mg/m3	Repeated dose toxicity
	General population	Dermal	Systemic, long-term; 0.2 mg/kg	
	Workers	Dermal	Systemic, long-term; 0.56 mg/kg	Repeated dose toxicity
	General population	Oral	Systemic, long-term; 0.2 mg/kg	Repeated dose toxicity
	General population	Eyes	Local effect;	No hazard identified
	Workers	Eyes	Local effect;	No hazard identified
	General population	Inhalation	Systemic, long-term; 0.35 mg/m3	Repeated dose toxicity
Diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide	Workers	Eyes	Local effect;	No hazard identified
	General population	Eyes	Local effect;	No data available
	Workers	Dermal	Systemic, long-term; 0.233 mg/kg	Repeated dose toxicity
	Workers	Inhalation	Systemic, long-term; 0.822 mg/m3	Repeated dose toxicity
	General population	Eyes	Local effect;	No hazard identified
	General population	Dermal	Systemic, long-term; 83.3 µg/kg	Repeated dose toxicity
	General population	Oral	Systemic, long-term; 83.3 µg/kg	Repeated dose toxicity
	General population	Inhalation	Systemic, long-term; 0.145 mg/m3	Repeated dose toxicity
Phenyl bis(2,4,6- trimethylbenzoyl)-phosphine oxide	General population	Inhalation	Systemic, long-term; 1.93 mg/m3	Repeated dose toxicity
	General population	Inhalation	Systemic, long-term; 2.9 mg/m3	Repeated dose toxicity
	Workers	Inhalation	Systemic, long-term; 11.75 mg/m3	Repeated dose toxicity
	Workers	Eyes	Local effect;	No hazard identified
	General population	Eyes	Local effect;	No hazard identified

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	Workers	Inhalation	Systemic, long-term; 21 mg/m3	Repeated dose toxicity
	General population	Dermal	Systemic, long-term; 1.67 mg/kg	Repeated dose toxicity
	General population	Oral	Systemic, long-term; 1.67 mg/kg	Repeated dose toxicity
	General population	Oral	Systemic, short-term; 1.67 ng/kg	
	General population	Inhalation	Systemic, long-term; 2.61 mg/m3	Repeated dose toxicity
	Workers	Dermal	Systemic, short-term; 4.67 mg/kg	
	Workers	Dermal	Systemic, long-term; 3.33 mg/kg	Repeated dose toxicity
	General population	Inhalation	Systemic, short-term; 2.92 mg/m3	
	General population	Inhalation	Systemic, long-term; 3.92 mg/m3	Repeated dose toxicity
	Workers	Dermal	Systemic, long-term; 4.67 mg/kg	Repeated dose toxicity
	Workers	Dermal	Systemic, long-term; 4.2 mg/kg	Repeated dose toxicity
	Workers	Inhalation	Systemic, long-term; 7.84 mg/m3	Repeated dose toxicity
	General population	Dermal	Systemic, short-term;	
	Workers	Inhalation	1.67 mg/kg Systemic, short-term; 16.46 mg/m3	Repeated dose toxicity
	General population	Inhalation	Systemic, long-term;	Repeated dose toxicity
	Workers	Inhalation	2.92 mg/m3 Systemic, short-term;	
	Workers	Inhalation	7.84 mg/m3 Systemic, long-term;	Repeated dose toxicity
	General population	Inhalation	16.46 mg/m3 Systemic, short-term;	
	Workers	Dermal	1.93 mg/m3 Systemic, short-term;	
	Workers	Inhalation	3.33 mg/kg Systemic, long-term;	Repeated dose toxicity
	General population	Oral	14.8 mg/m3 Systemic, long-term; 1.5	Repeated dose toxicity
	Workers	Dermal	mg/kg Systemic, long-term; 3	Repeated dose toxicity
	General population	Inhalation	mg/kg Systemic, long-term; 5.2	Repeated dose toxicity
	General population	Inhalation	mg/m3 Systemic, short-term;	Repeated dose toxicity
	General population	Dermal	3.92 mg/m3 Systemic, long-term; 1.5	
	Workers	Inhalation	mg/kg Systemic, long-term; 1.2	
	General population	Even	mg/m3 Local effect;	No bozard identified
	Workers	Eyes Eyes	Local effect;	No hazard identified  No hazard identified
	Workers	Dermal	Systemic, long-term; 0.3 mg/kg	
2-Isopropyl-9H-thioxanthen-9- one	Workers	Eyes	Local effect;	No hazard identified
	Workers	Inhalation	Systemic, long-term; 0.73 mg/m3	developmental toxicity / teratogenicity
	Workers	Dermal	Systemic, long-term; 0.42 mg/kg	developmental toxicity / teratogenicity
	General population	Eyes	Local effect;	No hazard identified
	General population	Eyes	Local effect;	Low hazard (no threshold derived)
	General population	Inhalation	Systemic, long-term; 7.2 mg/m3	
	Workers	Inhalation	Systemic, long-term; 24.5 mg/m3	Repeated dose toxicity

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	General population	Dermal	Systemic, long-term; 1.66 mg/kg	Repeated dose toxicity
	Workers	Dermal	Systemic, long-term; 2.77 mg/kg	Repeated dose toxicity
	General population	Oral	Systemic, long-term; 2.1 mg/kg	Repeated dose toxicity
2,6-di-tert-Butyl-p-cresol	Workers	Eyes	Local effect;	No hazard identified
	General population	Inhalation	Systemic, long-term; 0.86 mg/m3	Repeated dose toxicity
	Workers	Inhalation	Systemic, long-term; 3.5 mg/m3	Repeated dose toxicity
	General population	Eyes	Local effect;	No hazard identified
	Workers	Dermal	Systemic, long-term; 0.5 mg/kg	Repeated dose toxicity
	General population	Dermal	Systemic, long-term; 0.25 mg/kg	Repeated dose toxicity

### **PNEC-Values**

Critical component	Environmental compartment	PNEC-Values	Remarks
Oxybis(methyl-2,1-ethanediyl) diacrylate	soil	0.001 mg/kg	
•	Aquatic (freshwater)	0.003 mg/l	
	Sewage treatment plant	100 mg/l	
	Aquatic (marine water)	0 mg/l	
	freshwater sediment	0.009 mg/kg	
2-(2-Vinyloxyethoxy) ethyl acrylate		0.013 mg/kg	
	Marine sediments	0.001 mg/kg	
	Sewage treatment plant	7.41 mg/l	
	Aquatic (marine water)	0 mg/l	
	Aquatic (freshwater)	0.003 mg/l	
	soil	0.001 mg/kg	
Diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide		22.2 μg/kg	
	Fresh water	0.00353 mg/l	
	Marine sediments	11.5 μg/kg	
	Marine water	0.00353 mg/l	
	Aquatic (freshwater)	1.4 µg/l	
	Intermittent release	0.0353 mg/l	
	Aquatic (marine water)	0.14 µg/l	
	Sediment-fresh water	0.29 mg/kg	
	freshwater sediment	0.115 mg/kg	
	Soil	0.0557 mg/kg	
Phenyl bis(2,4,6- trimethylbenzoyl)-phosphine oxide	Sewage treatment plant	1 mg/l	
	Aquatic (freshwater)	0.8 μg/l	
	soil	20 mg/kg	
	Aquatic (marine water)	0.8 μg/l	
		1 μg/l	
	freshwater sediment	0.712 mg/kg	
		64 μg/kg	
	Aquatic (marine water)	9 ng/l	
	Marine sediments	0.712 mg/kg	
	soil	12.8 µg/kg	
	Aquatic (freshwater)	90 ng/l	
	Marine sediments	6.4 µg/kg	
	Aquatic (freshwater)	1 μg/l	
Ethyl 4-dimethylaminobenzoate	Predator	740 mg/kg	Oral
-	Aquatic (marine water)	0 mg/l	
	Aquatic (freshwater)	0.002 mg/l	
	soil	0.021 mg/kg	
	Marine sediments	0.011 mg/kg	
	Sewage treatment plant	100 mg/l	
	freshwater sediment	0.113 mg/kg	
2-Isopropyl-9H-thioxanthen-9- one	Predator	0.333 mg/kg	Oral

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	soil	0.003 mg/kg	
	Aquatic (marine water)	0 mg/l	
	Aquatic (freshwater)	0 mg/l	
	Marine sediments	0.001 mg/kg	
	Sewage treatment plant	100 mg/l	
	freshwater sediment	0.013 mg/kg	
hexamethylene diacrylate; hexane-1,6-diol diacrylate	soil	0.094 mg/kg	
	Marine sediments	0.049 mg/kg	
	Aquatic (marine water)	0.001 mg/l	
	Sewage treatment plant	2.7 mg/l	
	freshwater sediment	0.493 mg/kg	
	Aquatic (freshwater)	0.007 mg/l	
2,6-di-tert-Butyl-p-cresol	Predator	8.33 mg/kg	Oral
	freshwater sediment	99.6 μg/kg	
	soil	47.69 μg/kg	
	Aquatic (freshwater)	0.199 μg/l	
	Sewage treatment plant	0.17 mg/l	
	Aquatic (marine water)	0.02 μg/l	
	Marine sediments	9.96 μg/kg	

# 8.2 Exposure controls Appropriate Engineering Controls:

Provide easy access to water supply and eye wash facilities. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

#### Individual protection measures, such as personal protective equipment

**General information:** Follow training instructions when handling this material. Use personal

protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier

of the personal protective equipment.

**Eye/face protection:** Safety goggles. EN 166.

**Hand Protection:** Protective gloves should be used if there is a risk of direct contact or

splash.(EN374), Chemical resistant gloves required for prolonged or repeated contact., Butyl rubber (EN374), Glove thickness: > 0.70 mm, Break-through time: > 480 min, Glove thickness: > 0.35 mm, Break-through

time: > 60 min, Risk of splashes:, Nitrile rubber., Nitrile gloves are recommended, but be aware that the liquid may penetrate the gloves. Frequent change is advisable., The most suitable glove must be chosen in

consultation with the gloves supplier, who can inform about the

breakthrough time of the glove material.

**Skin and Body Protection:** Safety clothes : long sleeved clothing EN13688

**Respiratory Protection:** In case of inadequate ventilation use suitable respirator (EN14387). Seek

advice from local supervisor.

**Hygiene measures:** Do not get in eyes. Observe good industrial hygiene practices. Do not

handle until all safety precautions have been read and understood. Obtain special instructions before use. Wash contaminated clothing before reuse. Avoid contact with skin. Wash hands before breaks and immediately after handling the product. Contaminated work clothing should not be allowed

out of the workplace.

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**Environmental Controls:** Do not empty into drains.

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

### 9.1 Information on basic physical and chemical properties

**Appearance** 

Physical state: liquid
Form: liquid
Color: purple
Odor: acrylic odor

Odor Threshold:No data available.Freezing point: $< 32 \,^{\circ}F/< 0 \,^{\circ}C$ Boiling Point: $> 212 \,^{\circ}F/> 100 \,^{\circ}C$ Flammability:Not flammable.

Upper/lower limit on flammability or explosive limits

Explosive limit - upper: not applicable
Explosive limit - lower: not applicable
Flash Point: > 212 °F/> 100 °C
Self Ignition Temperature: Not determined.
Decomposition No data available.

Temperature:

pH: substance/mixture is non-soluble (in water) Not applicable

**Viscosity** 

**Dynamic viscosity:** 7 - 9 mPa.s (113 °F / 45 °C)**Kinematic viscosity:** 6.5 - 8.4 mm2/s (113 °F / 45 °C)

Flow Time: not applicable

Solubility(ies)

Solubility in Water: Insoluble in water
Solubility (other): No data available.
Partition coefficient (n- Not applicable Mixture

octanol/water):

**Vapor pressure:**  $\leq 0.04 \text{ hPa} (77 \text{ °F/25 °C})$ 

Relative density:

Density:

Bulk density:

Relative vapor density:

1.0721

not applicable

not applicable

No data available.

Particle characteristics

Particle Size not applicable

Distribution:

Specific surface area: not applicable
Surface charge/Zeta not applicable

potential:

Assessment: not applicable
Shape: not applicable
Crystallinity: not applicable
Surface treatment: not applicable

9.2 Other information

Minimum ignition >= 347 °F/>= 175 °C

temperature:

VOC Content: EC Directive 1999/13: 0.03 g/l ~0 % (calculated)

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

Material is stable under normal conditions. 10.1 Reactivity:

10.2 Chemical Stability: Material is stable under normal conditions.

10.3 Possibility of hazardous

reactions:

Not known.

10.4 Conditions to avoid: Avoid heat or contamination.

10.5 Incompatible Materials: None known.

**10.6 Hazardous Decomposition** 

**Products:** 

By heating and fire, harmful vapors/gases may be formed.

### **SECTION 11: Toxicological information**

#### Information on likely routes of exposure

Inhalation: Inhalation is the primary route of exposure. In high concentrations, vapors,

fumes or mists may irritate nose, throat and mucus membranes.

**Skin Contact:** Causes skin irritation. May cause an allergic skin reaction.

Eye contact: Causes serious eye damage.

May be ingested by accident. Ingestion may cause irritation and malaise. Ingestion:

### 11.1 Information on toxicological effects

### **Acute toxicity**

Oral

**Product:** ATEmix: 25,571.43 mg/kg

Components:

Oxybis(methyl-2,1ethanediyl) diacrylate LD 50 (Rat): 4,626 mg/kg Experimental result, Supporting study

2-(2-Vinyloxyethoxy)

LD 50 (Rat): 1,790 mg/kg Experimental result, Supporting study

ethyl acrylate

Diphenyl(2,4,6-

LD 50 (Rat): > 5,000 mg/kg Experimental result, Key study

trimethylbenzoyl)phosphi

ne oxide

Phenyl bis(2,4,6-

trimethylbenzoyl)phosphine oxide

No data available.

No data available.

Ethyl 4-

dimethylaminobenzoate 2-Isopropyl-9H-

No data available.

thioxanthen-9-one

2-Propenoic acid ,1-6-No data available.

hexanediyl ester, polymer with 2-aminoethanol

hexamethylene diacrylate; hexane-1,6-

LD 50 (Rat): > 5,000 mg/kg Experimental result, Key study

diol diacrylate

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### SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended

2,6-di-tert-Butyl-p-cresol LD 50 (Rat): > 6,000 mg/kg Experimental result, Key study

**Dermal** 

Product: Not classified for acute toxicity based on available data.

Components:

Oxybis(methyl-2,1-LD 50 (Rabbit): > 2,000 mg/kg Experimental result, Key study

ethanediyl) diacrylate

2-(2-Vinyloxyethoxy) LD 50 (Rat): > 2,000 mg/kg Experimental result, Key study

ethyl acrylate

Diphenvl(2.4.6-No data available.

trimethylbenzoyl)phosp

hine oxide

Phenyl bis(2,4,6-No data available.

trimethylbenzoyl)phosphine oxide

Ethyl 4-No data available.

dimethylaminobenzoat

2-Isopropyl-9H-No data available.

thioxanthen-9-one

2-Propenoic acid ,1-6-No data available.

hexanediyl ester, polymer with 2aminoethanol

hexamethylene LD 50 (Rabbit): 3,650 mg/kg Experimental result, Key study

diacrylate; hexane-1,6diol diacrylate

2,6-di-tert-Butyl-p-LD 50 (Rat): > 2,000 mg/kg Experimental result, Key study

cresol

**Product:** 

Inhalation

Not classified for acute toxicity based on available data.

Components:

Oxybis(methyl-2,1-No data available.

ethanediyl) diacrylate

2-(2-Vinyloxyethoxy) LC 50 (Rat, 4 h)> 5.04 mg/l Dust, Experimental result, Key study

ethyl acrylate

Diphenyl(2,4,6-No data available.

trimethylbenzoyl)phosphi

ne oxide

Phenyl bis(2,4,6-

No data available.

trimethylbenzoyl)phosphine oxide

Ethyl 4-No data available.

dimethylaminobenzoate

2-Isopropyl-9H-No data available.

thioxanthen-9-one 2-Propenoic acid ,1-6hexanediyl ester, polymer

No data available.

with 2-aminoethanol hexamethylene

LC 0 (Rat, 7 h)0.41 mg/l Vapor, Experimental result, Key study

diacrylate; hexane-1,6diol diacrylate

2,6-di-tert-Butyl-p-cresol RD 50 (Mouse, 30 min)60 ppm Vapor, Experimental result, Supporting

study

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### SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended

NOAEL (Rat(Female, Male), Oral, 28 - 52 d): 250 mg/kg

Repeated dose toxicity

Product: No data available.

Components: Oxybis(methyl-2,1-

ethanediyl) diacrylate 2-(2-Vinyloxyethoxy) NOAEL (Rat(Female, Male), Oral, 28 d): 160 mg/kg

ethyl acrylate Diphenyl(2,4,6-

trimethylbenzoyl)phosphi NOAEL (Rat(Female, Male), Oral, 28 d): 50 mg/kg

ne oxide

Phenyl bis(2,4,6-No data available.

trimethylbenzoyl)phosphine oxide

Ethyl 4-No data available.

dimethylaminobenzoate

2-Isopropyl-9H-No data available. thioxanthen-9-one

2-Propenoic acid ,1-6hexanediyl ester, polymer with 2-aminoethanol

No data available.

hexamethylene

diacrylate; hexane-1,6-

diol diacrylate

2,6-di-tert-Butyl-p-cresol NOAEL (Rat(Male), Oral, 76 - 110 Weeks): 70 mg/kg

No data available.

**Skin Corrosion/Irritation:** 

**Product:** Causes skin irritation.

Components:

Oxybis(methyl-2,1-No data available.

ethanediyl) diacrylate

2-(2-Vinyloxyethoxy) in vivo (Rabbit): Not irritant Experimental result, Key study

ethyl acrylate

Diphenyl(2,4,6in vivo (Rabbit): Not irritant Experimental result, Key study

trimethylbenzoyl)phosp

hine oxide Phenyl bis(2,4,6-No data available.

trimethylbenzoyl)phosphine oxide

Ethyl 4-No data available.

dimethylaminobenzoate

2-Isopropyl-9H-No data available.

thioxanthen-9-one

2-Propenoic acid ,1-6-No data available.

hexanediyl ester, polymer with 2aminoethanol hexamethylene

in vivo (Rabbit, 24 - 72 h): Category 2 Experimental result, Key study

diacrylate; hexane-1,6diol diacrylate

2,6-di-tert-Butyl-pin vivo (Rabbit, 24 - 72 h): Not irritant Experimental result, Key study

cresol

Serious Eye Damage/Eye

Irritation:

**Product:** Causes serious eye damage.

Components:

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Oxybis(methyl-2,1-

ethanedivl) diacrylate

2-(2-Vinyloxyethoxy)

ethyl acrylate

Diphenyl(2,4,6trimethylbenzoyl)phosp

hine oxide

Phenyl bis(2,4,6trimethylbenzoyl)-

phosphine oxide

Ethyl 4-

dimethylaminobenzoate

2-Isopropyl-9Hthioxanthen-9-one

2-Propenoic acid ,1-6hexanediyl ester,

polymer with 2aminoethanol hexamethylene

diacrylate; hexane-1,6-

diol diacrylate

2,6-di-tert-Butyl-p-

cresol

in vivo (Rabbit, 24 - 72 hrs): Category 1 OECD GHS

in vivo (Rabbit): Not irritating EU

No data available.

Irritating

in vivo (Rabbit, 24 - 72 hrs): Not irritating EU

Respiratory or Skin Sensitization:

> **Product:** May cause an allergic skin reaction.

Components:

Oxybis(methyl-2,1-

ethanediyl) diacrylate

2-(2-Vinyloxyethoxy)

ethyl acrylate

Diphenyl(2,4,6-

trimethylbenzoyl)phosp

hine oxide

Phenyl bis(2,4,6-

trimethylbenzoyl)phosphine oxide

Ethvl 4-

dimethylaminobenzoate

2-Isopropyl-9H-

thioxanthen-9-one

2-Propenoic acid ,1-6hexanediyl ester, polymer with 2-

aminoethanol hexamethylene

diacrylate; hexane-1,6diol diacrylate

2,6-di-tert-Butyl-p-

cresol

No data available.

Skin sensitization:, in vivo (Guinea pig): Sensitising

Skin sensitization:, in vivo (Guinea pig): Non sensitising

**Germ Cell Mutagenicity** 

**Product:** Based on available data, the classification criteria are not met.

In vitro

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### SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended

Components:

Oxvbis(methyl-2.1-No data available.

ethanediyl) diacrylate

2-(2-Vinyloxyethoxy) ethyl No data available.

acrylate

Diphenyl(2,4,6-No data available.

trimethylbenzoyl)phosphi

ne oxide

Phenyl bis(2,4,6-No data available.

trimethylbenzovl)phosphine oxide

Ethyl 4-No data available.

dimethylaminobenzoate

2-Isopropyl-9H-No data available. thioxanthen-9-one No data available.

2-Propenoic acid ,1-6hexanediyl ester, polymer

with 2-aminoethanol No data available.

hexamethylene diacrylate; hexane-1,6-

diol diacrylate

2,6-di-tert-Butyl-p-cresol No data available.

In vivo

Components:

Oxybis(methyl-2,1-No data available.

ethanediyl) diacrylate

2-(2-Vinyloxyethoxy) ethyl No data available.

acrylate

Diphenyl(2,4,6-No data available.

trimethylbenzoyl)phosphi

ne oxide

Phenyl bis(2,4,6-No data available.

trimethylbenzoyl)phosphine oxide

Ethyl 4-No data available.

dimethylaminobenzoate

2-Isopropyl-9H-No data available. thioxanthen-9-one

2-Propenoic acid .1-6hexanediyl ester, polymer

with 2-aminoethanol

hexamethylene diacrylate; hexane-1,6-

diol diacrylate

2,6-di-tert-Butyl-p-cresol No data available.

Carcinogenicity

**Product:** Based on available data, the classification criteria are not met.

Components:

No data available.

No data available.

No data available.

Oxybis(methyl-2,1ethanediyl) diacrylate

2-(2-Vinyloxyethoxy) ethyl No data available.

acrylate

Diphenyl(2,4,6-No data available.

trimethylbenzoyl)phosphi

ne oxide

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### SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended

Phenyl bis(2,4,6-

trimethylbenzovl)-

phosphine oxide

Ethyl 4dimethylaminobenzoate

2-Isopropyl-9H-

thioxanthen-9-one

2-Propenoic acid ,1-6hexanediyl ester, polymer

with 2-aminoethanol hexamethylene

diacrylate; hexane-1,6-

diol diacrylate

2,6-di-tert-Butyl-p-cresol

No data available.

Reproductive toxicity

Product: May damage the unborn child. Suspected of damaging fertility.

Components:

Oxybis(methyl-2,1-

ethanediyl) diacrylate

2-(2-Vinyloxyethoxy) ethyl

acrylate

Diphenyl(2,4,6-

trimethylbenzoyl)phosphi

ne oxide

Phenyl bis(2,4,6-

trimethylbenzoyl)phosphine oxide

Ethyl 4-

dimethylaminobenzoate

2-Isopropyl-9H-

thioxanthen-9-one

2-Propenoic acid ,1-6-

hexanediyl ester, polymer

with 2-aminoethanol

hexamethylene diacrylate; hexane-1,6-

diol diacrylate

2,6-di-tert-Butyl-p-cresol

No data available.

**Specific Target Organ Toxicity - Single Exposure** 

Product: Based on available data, the classification criteria are not met.

Components:

Oxybis(methyl-2,1-

No data available.

No data available.

No data available.

ethanediyl) diacrylate

2-(2-Vinyloxyethoxy) ethyl

acrylate

Diphenyl(2,4,6-No data available.

trimethylbenzoyl)phosphi

ne oxide

Phenyl bis(2,4,6-

trimethylbenzoyl)-

phosphine oxide

Ethyl 4-No data available.

dimethylaminobenzoate

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### SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended

2-Isopropyl-9H-

No data available.

thioxanthen-9-one

2-Propenoic acid ,1-6-

No data available.

hexanediyl ester, polymer with 2-aminoethanol

hexamethylene

No data available.

diacrylate; hexane-1,6-

diol diacrylate

2,6-di-tert-Butyl-p-cresol No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: Based on available data, the classification criteria are not met.

Components:

Oxybis(methyl-2,1-No data available.

ethanediyl) diacrylate

2-(2-Vinyloxyethoxy) ethyl No data available.

acrylate

Diphenyl(2,4,6-No data available.

trimethylbenzoyl)phosphi

ne oxide

Phenyl bis(2,4,6-No data available.

trimethylbenzoyl)phosphine oxide Ethyl 4-

No data available.

dimethylaminobenzoate

2-Isopropyl-9H-No data available.

thioxanthen-9-one

2-Propenoic acid ,1-6-No data available.

hexanediyl ester, polymer with 2-aminoethanol

hexamethylene No data available.

diacrylate; hexane-1,6-

diol diacrylate

2,6-di-tert-Butyl-p-cresol No data available.

**Aspiration Hazard** 

Product: Based on available data, the classification criteria are not met.

Components:

Oxybis(methyl-2,1-No data available.

ethanediyl) diacrylate

2-(2-Vinyloxyethoxy) ethyl No data available.

acrylate

Diphenyl(2,4,6-No data available.

trimethylbenzoyl)phosphi

ne oxide

Phenyl bis(2,4,6-No data available.

trimethylbenzoyl)phosphine oxide

Ethyl 4-No data available.

dimethylaminobenzoate

2-Isopropyl-9H-No data available.

thioxanthen-9-one 2-Propenoic acid ,1-6-

No data available.

hexanediyl ester, polymer with 2-aminoethanol

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### SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended

hexamethylene

diacrylate: hexane-1.6-

diol diacrylate

2,6-di-tert-Butyl-p-cresol

No data available.

No data available.

#### 11.2 Information on health hazards

**Endocrine Disruption** 

**Product:** The substance/mixture does not contain components

> considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of

0.1% or higher.;

Components:

Oxybis(methyl-2,1-

No data available.

ethanediyl) diacrylate

2-(2-Vinyloxyethoxy) ethyl

No data available.

acrylate

Diphenyl(2,4,6-

No data available.

trimethylbenzoyl)phosphi

ne oxide

Phenyl bis(2,4,6-

No data available.

trimethylbenzoyl)phosphine oxide

Ethyl 4-

No data available.

dimethylaminobenzoate 2-Isopropyl-9H-

No data available.

thioxanthen-9-one

2-Propenoic acid ,1-6-

No data available.

hexanediyl ester, polymer with 2-aminoethanol

hexamethylene

diacrylate; hexane-1,6-

diol diacrylate

2,6-di-tert-Butyl-p-cresol No data available.

No data available.

### **SECTION 12: Ecological information**

**General information:** Contains a substance which causes risk of hazardous effects to the

environment.

#### 12.1 Toxicity

### **Acute toxicity**

### Remarks:

Based on available data, the classification criteria are not met.

Fish

Product: No data available.

Components

Oxybis(methyl-2,1-NOAEL (Leuciscus idus, 96 h): 1 mg/l (Static) Experimental result, Key study

LC 50 (Leuciscus idus, 96 h): 2.2 mg/l (Static) ethanediyl) diacrylate

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### SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended

2-(2-Vinyloxyethoxy) ethyl acrylate

LC 50 (Danio rerio, 96 h): 6.8 mg/l (semi-static) Experimental result, Key

study

LOAEL (Danio rerio, 96 h): 4.6 mg/l (semi-static) Experimental result, Key

study

NOAEL (Danio rerio, 96 h): 2.2 mg/l (semi-static) Experimental result, Key

study

Diphenyl(2,4,6-

LC 50 (Oryzias latipes, 48 h): +/- 6.53 mg/l (semi-static) Experimental result, Key study

trimethylbenzoyl)phosphi

ne oxide

Phenyl bis(2,4,6-

No data available.

trimethylbenzoyl)phosphine oxide

Ethyl 4-

No data available.

dimethylaminobenzoate

2-Isopropyl-9H-

No data available.

thioxanthen-9-one 2-Propenoic acid, 1-6-

hexanediyl ester, polymer with 2-aminoethanol

No data available.

hexamethylene

diacrylate; hexane-1,6-

diol diacrylate

No data available.

2,6-di-tert-Butyl-p-cresol

LC 50 (96 h): 0.199 mg/l QSAR QSAR, Key study

**Aquatic Invertebrates** 

Product:

No data available.

Components

Oxybis(methyl-2,1ethanediyl) diacrylate No data available.

2-(2-Vinyloxyethoxy) ethyl acrylate

NOAEL (Daphnia magna, 48 h): 25 mg/l (Static) Experimental result, Key

study

EC 50 (Daphnia magna, 48 h): 55 mg/l (Static) Experimental result, Key

study

Diphenyl(2,4,6-

trimethylbenzoyl)phosphi

EC 50 (Daphnia magna, 48 h): 3.53 mg/l (Static) Experimental result, Key study

ne oxide

Phenyl bis(2,4,6-

trimethylbenzoyl)-

phosphine oxide

Ethyl 4-

No data available.

No data available.

dimethylaminobenzoate

2-Isopropyl-9Hthioxanthen-9-one No data available.

2-Propenoic acid ,1-6-

hexanediyl ester, polymer

with 2-aminoethanol

hexamethylene

diacrylate; hexane-1,6diol diacrylate

No data available.

No data available.

2,6-di-tert-Butyl-p-cresol

EC 50 (Daphnia magna, 48 h): 0.48 mg/l (Static) Experimental result, Key

study

**Toxicity to Aquatic Plants** 

**Product:** No data available.

Components

No data available. Oxybis(methyl-2,1-

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### SAFETY DATA SHEET

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ethanediyl) diacrylate

2-(2-Vinyloxyethoxy)

No data available.

ethyl acrylate

Diphenyl(2,4,6-

No data available.

trimethylbenzoyl)phosphi

ne oxide

Phenyl bis(2,4,6trimethylbenzoyl)phosphine oxide

No data available.

Ethvl 4-

dimethylaminobenzoate

No data available.

2-Isopropyl-9H-

thioxanthen-9-one 2-Propenoic acid, 1-6No data available.

hexanediyl ester, polymer

with 2-aminoethanol

No data available.

hexamethylene

diacrylate; hexane-1,6-

No data available.

diol diacrylate

2,6-di-tert-Butyl-p-cresol

No data available.

### Toxicity to microorganisms

Product:

No data available.

#### Components

Oxybis(methyl-2,1-

No data available.

ethanediyl) diacrylate

2-(2-Vinyloxyethoxy)

No data available.

ethyl acrylate

Diphenyl(2,4,6-

No data available.

trimethylbenzoyl)phosphi

ne oxide

Phenyl bis(2,4,6trimethylbenzoyl)- EC50 (Bacteria, 3 h): > 100 mg/l (OECD-Guideline No.209; 88/302/EEC

C.11)

phosphine oxide

Ethyl 4-

No data available.

dimethylaminobenzoate

2-Isopropyl-9H-

No data available.

thioxanthen-9-one 2-Propenoic acid .1-6-

hexanediyl ester, polymer

No data available.

with 2-aminoethanol

hexamethylene

EC50 (0.5 h): ca. 270 mg/l (OECD-Guideline No.209; 88/302/EEC C.11)

diacrylate; hexane-1,6-

diol diacrylate

2,6-di-tert-Butyl-p-cresol No data available.

#### **Chronic Toxicity**

#### Remarks:

Harmful to aquatic life with long lasting effects.

Fish

**Product:** No data available.

Components

Oxybis(methyl-2,1-No data available.

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# **SAFETY DATA SHEET**

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ethanediyl) diacrylate

2-(2-Vinyloxyethoxy)

No data available.

ethyl acrylate

Diphenyl(2,4,6-

No data available.

trimethylbenzoyl)phosphi

ne oxide

Phenyl bis(2,4,6-

No data available.

trimethylbenzoyl)phosphine oxide

No data available.

Ethvl 4dimethylaminobenzoate

2-Isopropyl-9H-

No data available.

thioxanthen-9-one 2-Propenoic acid, 1-6-

hexanediyl ester, polymer

No data available.

with 2-aminoethanol

hexamethylene

No data available.

diacrylate; hexane-1,6diol diacrylate

2,6-di-tert-Butyl-p-cresol No data available.

**Aquatic Invertebrates** 

Product: No data available.

Components

Oxybis(methyl-2,1ethanediyl) diacrylate No data available.

2-(2-Vinyloxyethoxy)

No data available.

ethyl acrylate

Diphenyl(2,4,6-No data available.

trimethylbenzoyl)phosphi

ne oxide

No data available.

Phenyl bis(2,4,6trimethylbenzoyl)-

phosphine oxide

Ethyl 4-No data available.

dimethylaminobenzoate

2-Isopropyl-9Hthioxanthen-9-one

No data available.

2-Propenoic acid .1-6hexanediyl ester, polymer

No data available.

with 2-aminoethanol hexamethylene

No data available.

diacrylate; hexane-1,6-

diol diacrylate

2,6-di-tert-Butyl-p-cresol No data available.

**Toxicity to Aquatic Plants Product:** 

No data available.

Components

Oxybis(methyl-2,1ethanediyl) diacrylate No data available.

2-(2-Vinyloxyethoxy) ethyl acrylate

No data available.

Diphenyl(2,4,6trimethylbenzoyl)phosphi No data available.

ne oxide

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### SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended

Phenyl bis(2,4,6-

trimethylbenzovl)-

No data available.

phosphine oxide

Ethyl 4dimethylaminobenzoate No data available.

2-Isopropyl-9H-

thioxanthen-9-one

No data available.

2-Propenoic acid ,1-6-

No data available.

hexanediyl ester, polymer with 2-aminoethanol

hexamethylene

No data available.

diacrylate; hexane-1,6-

diol diacrylate

2,6-di-tert-Butyl-p-cresol No data available.

### 12.2 Persistence and Degradability

Biodegradation

Product: No data available.

Components

Oxybis(methyl-2,1ethanediyl) diacrylate (28 d): 90 - 100 % Detected in water. Experimental result, Key study

2-(2-Vinyloxyethoxy) ethyl

(28 d): > 84.4 % Detected in water. Experimental result, Key study OECD 301D Readily biodegradable 82 %

acrylate Diphenyl(2,4,6-

(28 d): > 0 - 10 % Detected in water. Experimental result, Key study

trimethylbenzoyl)phosphi

ne oxide

Phenyl bis(2,4,6-No data available.

trimethylbenzoyl)-

phosphine oxide Ethyl 4-No data available.

dimethylaminobenzoate

2-Isopropyl-9H-

No data available.

thioxanthen-9-one

2-Propenoic acid .1-6hexanediyl ester, polymer

No data available.

with 2-aminoethanol hexamethylene

diacrylate; hexane-1,6-

(28 d): 60 - 70 % Detected in water. Experimental result, Key study

diol diacrylate

2,6-di-tert-Butyl-p-cresol

(28 d): 4.5 % Detected in water. Experimental result, Key study

**BOD/COD Ratio** 

**Product** No data available.

Components

Oxybis(methyl-2,1-No data available.

ethanediyl) diacrylate

2-(2-Vinyloxyethoxy) ethyl No data available.

acrylate

Diphenyl(2,4,6trimethylbenzoyl)phosphi

No data available.

ne oxide

Phenyl bis(2,4,6-No data available.

trimethylbenzovl)phosphine oxide

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### SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended

Ethyl 4-

dimethylaminobenzoate

2-Isopropyl-9H-

thioxanthen-9-one

2-Propenoic acid ,1-6hexanediyl ester, polymer with 2-aminoethanol

hexamethylene diacrylate; hexane-1,6-

diol diacrylate

2,6-di-tert-Butyl-p-cresol

No data available.

12.3 Bioaccumulative potential

No data available. **Product:** 

Components

Oxybis(methyl-2,1-

ethanediyl) diacrylate

2-(2-Vinyloxyethoxy) ethyl

acrylate

Diphenyl(2,4,6-

trimethylbenzoyl)phosphi

ne oxide

Phenyl bis(2,4,6trimethylbenzoyl)-

phosphine oxide

Ethyl 4dimethylaminobenzoate

2-Isopropyl-9H-

thioxanthen-9-one 2-Propenoic acid ,1-6-

hexanediyl ester, polymer with 2-aminoethanol

hexamethylene diacrylate; hexane-1,6-

diol diacrylate

2,6-di-tert-Butyl-p-cresol

No data available.

No data available.

Cyprinus carpio, Bioconcentration Factor (BCF): 22 - 32 Aquatic

sediment Experimental result, Key study

No data available.

Bioconcentration Factor (BCF): 598.4 Aquatic sediment Estimated by

calculation, Weight of Evidence study

12.4 Mobility in soil

No data available. **Product:** 

Components

Oxybis(methyl-2,1ethanediyl) diacrylate

2-(2-Vinyloxyethoxy) ethyl No data available.

acrylate

Diphenyl(2,4,6-

trimethylbenzoyl)phosphine

oxide

Phenyl bis(2,4,6-

trimethylbenzoyl)phosphine oxide

No data available.

No data available.

No data available.

No data available. Ethyl 4-

dimethylaminobenzoate

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### SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended

2-Isopropyl-9H-thioxanthen-

No data available.

9-one

2-Propenoic acid ,1-6-

No data available.

hexanediyl ester, polymer

with 2-aminoethanol

No data available.

hexamethylene diacrylate;

hexane-1,6-diol diacrylate 2,6-di-tert-Butyl-p-cresol

No data available.

#### 12.5 Results of PBT and vPvB assessment

**Product:** Not fulfilling PBT (persistent/bioaccumulative/toxic) criteria Not fulfilling

vPvB (very persistent/very bioaccummulative) criteria

Components

Oxybis(methyl-2,1-

No data available.

ethanediyl) diacrylate

2-(2-Vinyloxyethoxy)

No data available.

ethyl acrylate

Diphenyl(2,4,6-

No data available.

trimethylbenzoyl)pho

sphine oxide

Phenyl bis(2,4,6trimethylbenzoyl)- No data available.

phosphine oxide Ethyl 4-

dimethylaminobenzo

No data available.

ate

2-Isopropyl-9H-No data available.

thioxanthen-9-one

2-Propenoic acid ,1-

No data available.

6-hexanediyl ester, polymer with 2aminoethanol

hexamethylene

No data available.

diacrylate; hexane-1,6-diol diacrylate

2,6-di-tert-Butyl-p-

No data available.

cresol

### 12.6 Endocrine disrupting properties

Product: The substance/mixture does not contain components

> considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of

0.1% or higher.

Components:

Oxybis(methyl-2,1ethanediyl) diacrylate No data available.

2-(2-Vinyloxyethoxy) ethyl

No data available.

acrylate

Diphenyl(2,4,6-

No data available.

trimethylbenzoyl)phosphine

oxide

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Phenyl bis(2,4,6-

trimethylbenzoyl)-phosphine

oxide

Ethyl 4- No data available.

dimethylaminobenzoate

2-Isopropyl-9H-thioxanthen-

9-one

2-Propenoic acid ,1-6-

hexanediyl ester, polymer with 2-aminoethanol

hexamethylene diacrylate:

hexamethylene diacrylate; hexane-1,6-diol diacrylate

2,6-di-tert-Butyl-p-cresol

No data available.

**12.7 Other adverse effects:** Harmful to aquatic life with long lasting effects.

### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

**General information:** Disposal considerations (including disposal of contaminated containers or

packaging) Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product

characteristics at time of disposal.

**Disposal methods:** Discharge, treatment, or disposal may be subject to national, state, or local

laws.

Since emptied containers retain product residue, follow label warnings even

after container is emptied.

**Contaminated Packaging:** Dispose in accordance with all applicable regulations.

### **SECTION 14: Transport information**

#### **ADR**

14.1 UN Number: Not regulated.
14.2 UN Proper Shipping Name: Not regulated.
14.3 Transport Hazard Class(es) Not regulated.
14.4 Packing Group: Not regulated.
14.5 Environmental Hazards: Not regulated.
14.6 Special precautions for user: Not regulated.

#### **RID**

14.1 UN Number: Not regulated.
14.2 UN Proper Shipping Name: Not regulated.
14.3 Transport Hazard Class(es) Not regulated.
14.4 Packing Group: Not regulated.
14.5 Environmental Hazards: Not regulated.
14.6 Special precautions for user: Not regulated.

#### **IMDG**

14.1 UN Number: Not regulated.14.2 UN Proper Shipping Name: Not regulated.

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14.3 Transport Hazard Class(es)
14.4 Packing Group:
14.5 Environmental Hazards:
14.6 Special precautions for user:
Not regulated.
Not regulated.
Not regulated.

#### **IATA**

14.1 UN Number: Not regulated.
14.2 UN Proper Shipping Name: Not regulated.
14.3 Transport Hazard Class(es) Not regulated.
14.4 Packing Group: Not regulated.
14.5 Environmental Hazards: Not regulated.
14.6 Special precautions for user: Not regulated.

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** 

EU. REACH Candidate List of Substances of Very High Concern for Authorization (SVHC): none

EU. REACH Annex XIV, Substances Subject to Authorization: none

Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use:

Chemical name	CAS-No.	Concentration
Octamethylcyclotetrasiloxane	556-67-2	- <0.1%

Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex I, Controlled Substances: none

Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex II, New Substances: none

- EU. Regulation 2019/1021/EU on persistent organic pollutants (POPs) (recast), as amended: none
- EU. Directive 2010/75/EU on Industrial Emissions (IPPC), Annex II, L 334/17:

CAS-No.
75980-60-8
556-67-2

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended: none

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended: none

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended: none

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According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended: none

Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens and mutagens at work.: none

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breast feeding.:

Chemical name	CAS-No.	Concentration
Diphenyl(2,4,6-trimethylbenzoyl)phosphine	75980-60-8	1.0 - 10%
oxide		
Octamethylcyclotetrasiloxane	556-67-2	0 - <0.1%

# EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, Annex I:

Classification	Lower-tier Requirements	Upper-tier
		Requirements
E1. Hazardous to the aquatic	100 t	200 t
environment		

EU. Regulation No. 166/2006 PRTR (Pollutant Release and Transfer Registry), Annex II: Pollutants: none

Directive 98/24/EC on the protection of workers from the risks related to chemical agents at work:

Chemical name	CAS-No.	Concentration
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8	1.0 - 10%
Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	162881-26-7	1.0 - 10%
hexamethylene diacrylate; hexane-1,6-diol diacrylate	13048-33-4	0.1 - 1.0%
Phenol, 4-methoxy-	150-76-5	0 - <0.1%
Octamethylcyclotetrasiloxane	556-67-2	0 - <0.1%

15.2 Chemical safety assessment:

Chemical Safety Assessment has been carried out.

### **SECTION 16: Other information**

### Abbreviations and acronyms:

	or or lations and abronymo.	
ADR	Accord européen relatif au transport international des marchandises Dangereuses par Route	
ADNR	Accord européen relatif au transport international des marchandises Dangereuses par la Rhin	
AGW	Arbeitsplatzgrenswerte (DE)	
ATEmix	Acute toxicity estimate of the mixture	
CLP	Classification, Labelling and Packaging of substances and mixtures	
CMR	carcinogenicity, mutagenicity and toxicity for reproduction	
DNEL	Derived No Effect Level	
EC0	Effective Concentration 0%	
EC5	Effective Concentration 5%	
EC10	Effective Concentration 10%	

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According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended

EC50	Median Effective Concentration
EC100	Effective Concentration 100%
EH40 WEL	Workplace Exposure Limit (GB)
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IC50	inhibitory concentration 50%
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
IUCLID	International Uniform ChemicaL Information Database
LC50	Lethal Concentration 50%
LC100	Lethal Concentration 100%
LOAEL	Lowest Observed Adverse Effect Level
LDL0	Lethal Dose (minimum found to be lethal)
LD50	Lethal Dose 50%
MAC	Maximaal Aanvaardbare Concentratie (NL)
MAK	Maximale Arbeitsplatz-Konzentration
NOAEL	No Observed Adverse Effect Level
NOEL	No Observed Effect Level
NOEC	No Observed Effect Concentration
OEL	Occupatianal Exposure Limit
PBT	Persistent, Bioaccumulative and Toxic substance
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations concerning the International Transport of Dangerous Goods by Rail
STEL	Short Term Exposure Limit
TLV	Treshold Limit Value
TRGS900	Arbeitsplatzgrenswerte (DE)
TWA	Time Weighted Average
VOC	Volatile Organic Compound
vPvB	very Persistent and very Bioaccumulative substance

**Key literature references and** Safety Data Sheet from the supplier.

sources for data: ECHÁ

# Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]

Classification according to Regulation (EC) No 1272/2008 as amended.	Classification procedure
Skin irritation, Category 2	Calculation method
Serious eye damage, Category 1	Calculation method
Skin sensitizer, Category 1	Calculation method
Toxic to reproduction, Category 1B	Calculation method
Chronic hazards to the aquatic environment, Category 3	Calculation method

### Wording of the H-statements in section 2 and 3

or and or the relations in country 2 and c	
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.
H360	May damage fertility or the unborn child.
H360Df	May damage the unborn child. Suspected of

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	damaging fertility.
H361f	Suspected of damaging fertility.
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.

**Training information:** Follow training instructions when handling this material.

**Disclaimer:** This information is provided without warranty. The information is believed to

be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.

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