

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 CYAN 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
Septestraat 27
2640 Mortsel
Belgium**Telephone:** +32 3 4442111
Fax: +32 3 4447094
E-mail: electronic.sds@agfa.com**National Supplier**Agfa NV - UK Branch
Units 1 & 2 Ashbourne Court,
Manners Industrial Estate
DE7 8EF Ilkeston
United Kingdom**Telephone:** +44 (0)20 8 231 4616
Fax: +44 (0)20 8 231 4951
E-mail: electronic.sds@agfa.com**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 environment	Category 3	H412: Harmful to aquatic life with long lasting effects.
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2.2 Label Elements**Contains:** Oxybis(methyl-2,1-ethanediyl) diacrylate
2-(2-Vinyloxyethoxy) ethyl acrylate
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide
Ethyl 4-dimethylaminobenzoate
Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

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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.

Supplemental information

EUH208: Contains (hexamethylene diacrylate; hexane-1,6-diol diacrylate). May produce an allergic reaction.

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 bioaccumulative) 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)	50 - <100%	57472-68-1	260-754-3	01-2119484629-21-XXXX;	No data available.	

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diacrylate						
2-(2-Vinyloxyethoxy) ethyl acrylate	10 - <20%	86273-46-3	451-690-9	01-2119441302-54-XXXX;	No data available.	
2-Propenoic acid ,1-6-hexanediyl ester, polymer with 2-aminoethanol	5 - <10%	67906-98-3		No data available.	No data available.	
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	5 - <10%	75980-60-8	278-355-8	01-2119972295-29-XXXX;	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.	
Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	0.1 - <1%	162881-26-7	423-340-5	01-2119489401-38-0001;	No data available.	
hexamethylene diacrylate; hexane-1,6-diol diacrylate	0.1 - <1%	13048-33-4	235-921-9	01-2119484737-22-XXXX;	No data available.	

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

This substance has workplace exposure limit(s).

This substance is listed as SVHC.

Classification

Chemical name	Classification	Notes
Oxybis(methyl-2,1-ethanediyl) diacrylate	Classification: Skin Sens.: 1: H317; Eye Dam.: 1: H318; Skin Irrit.: 2: H315;	No data available.
2-(2-Vinyloxyethoxy) ethyl acrylate	Classification: Skin Sens.: 1: H317; Acute Tox.: 4: H302; Aquatic Chronic: 3: H412; Acute toxicity, oral: LD 50: 1,790 mg/kg Acute toxicity, inhalation: LC 50: > 5.04 mg/l Acute toxicity, dermal: LD 50: > 2,000 mg/kg	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.
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	Classification: Repr.: 2: H361f; Skin Sens.: 1: H317; Aquatic Chronic: 2: H411;	No data available.

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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.
Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	Classification: Skin Sens.: 1A: H317; Aquatic Chronic: 4: H413;	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.

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

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.

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- 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.
- 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 None of the components have assigned exposure limits.

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Biological Limit Values

None of the components have assigned exposure limits.

DNEL-Values

Critical component	Type	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
2-(2-Vinyloxyethoxy) ethyl acrylate	General population	Dermal	Systemic, long-term; 1.66 mg/kg	Repeated dose toxicity
	Workers	Inhalation	Systemic, long-term; 1.97 mg/m3	Repeated dose toxicity
	General population	Dermal	Systemic, long-term; 0.2 mg/kg	Repeated dose toxicity
	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
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	Workers	Eyes	Local effect;	No hazard identified
	General population	Inhalation	Systemic, long-term; 0.35 mg/m3	Repeated dose toxicity
	Workers	Eyes	Local effect;	No hazard identified
	General population	Eyes	Local effect;	No hazard identified
	Workers	Dermal	Systemic, long-term; 0.233 mg/kg	Repeated dose toxicity
	Workers	Inhalation	Systemic, long-term; 0.822 mg/m3	Repeated dose toxicity
Ethyl 4-dimethylaminobenzoate	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
	Workers	Eyes	Local effect;	No hazard identified
	Workers	Eyes	Local effect;	No hazard identified
2-Isopropyl-9H-thioxanthen-9-one	Workers	Dermal	Systemic, long-term; 0.3 mg/kg	Effect on fertility
	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
	Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	General population	Inhalation	Systemic, long-term; 1.93 mg/m3
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
Workers		Inhalation	Systemic, long-term; 21 mg/m3	Repeated dose toxicity

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	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 mg/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; 1.67 mg/kg	
	Workers	Inhalation	Systemic, short-term; 16.46 mg/m3	Repeated dose toxicity
	General population	Inhalation	Systemic, long-term; 2.92 mg/m3	Repeated dose toxicity
	Workers	Inhalation	Systemic, short-term; 7.84 mg/m3	
	Workers	Inhalation	Systemic, long-term; 16.46 mg/m3	Repeated dose toxicity
	General population	Inhalation	Systemic, short-term; 1.93 mg/m3	
	Workers	Dermal	Systemic, short-term; 3.33 mg/kg	
	Workers	Inhalation	Systemic, long-term; 14.8 mg/m3	Repeated dose toxicity
	General population	Oral	Systemic, long-term; 1.5 mg/kg	Repeated dose toxicity
	Workers	Dermal	Systemic, long-term; 3 mg/kg	Repeated dose toxicity
	General population	Inhalation	Systemic, long-term; 5.2 mg/m3	Repeated dose toxicity
	General population	Inhalation	Systemic, short-term; 3.92 mg/m3	Repeated dose toxicity
	General population	Dermal	Systemic, long-term; 1.5 mg/kg	Repeated dose toxicity
hexamethylene diacrylate; hexane-1,6-diol diacrylate	General population	Eyes	Local effect;	Low hazard (no threshold derived)
	General population	Inhalation	Systemic, long-term; 7.2 mg/m3	Repeated dose toxicity
	Workers	Inhalation	Systemic, long-term; 24.5 mg/m3	Repeated dose toxicity
	Workers	Eyes	Local effect;	Low hazard (no threshold derived)
	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

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	

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	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	
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
	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	
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	
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	

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.

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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.
- 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:** Blue-green
- Odor:** acrylic odor
- Odor Threshold:** No data available.
- Freezing point:** < 32 °F/< 0 °C
- Boiling Point:** > 212 °F/> 100 °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 Temperature:** No data available.
- pH:** substance/mixture is non-soluble (in water) Not applicable

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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-octanol/water): Not applicable Mixture

Vapor pressure: <= 0.04 hPa (77 °F/25 °C)

Relative density: 1.0741
Density: not applicable
Bulk density: not applicable
Relative vapor density: No data available.

Particle characteristics

Particle Size not applicable
Distribution:
Specific surface area: not applicable
Surface charge/Zeta potential: not applicable
Assessment: not applicable
Shape: not applicable
Crystallinity: not applicable
Surface treatment: not applicable

9.2 Other information

Minimum ignition temperature: >= 347 °F/>= 175 °C
VOC Content: EC Directive 1999/13: 0.03 g/l ~0 % (calculated)

SECTION 10: Stability and reactivity

- 10.1 Reactivity:** Material is stable under normal conditions.
- 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.

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Eye contact: Causes serious eye damage.
Ingestion: May be ingested by accident. Ingestion may cause irritation and malaise.

11.1 Information on toxicological effects

Acute toxicity

Oral

Product: ATEmix: 17,900 mg/kg
Components:
 Oxybis(methyl-2,1-ethanediyl) diacrylate LD 50 (Rat): 4,626 mg/kg Experimental result, Supporting study
 2-(2-Vinyloxyethoxy) ethyl acrylate LD 50 (Rat): 1,790 mg/kg Experimental result, Supporting study
 2-Propenoic acid ,1-6-hexanediyl ester, polymer with 2-aminoethanol No data available.
 Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide LD 50 (Rat): > 5,000 mg/kg Experimental result, Key study
 Ethyl 4-dimethylaminobenzoate No data available.
 2-Isopropyl-9H-thioxanthen-9-one No data available.
 Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide No data available.
 hexamethylene diacrylate; hexane-1,6-diol diacrylate LD 50 (Rat): > 5,000 mg/kg Experimental result, Key study

Dermal

Product: Not classified for acute toxicity based on available data.
Components:
 Oxybis(methyl-2,1-ethanediyl) diacrylate LD 50 (Rabbit): > 2,000 mg/kg Experimental result, Key study
 2-(2-Vinyloxyethoxy) ethyl acrylate LD 50 (Rat): > 2,000 mg/kg Experimental result, Key study
 2-Propenoic acid ,1-6-hexanediyl ester, polymer with 2-aminoethanol No data available.
 Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide No data available.
 Ethyl 4-dimethylaminobenzoate No data available.
 2-Isopropyl-9H-thioxanthen-9-one No data available.
 Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide No data available.
 hexamethylene diacrylate; hexane-1,6-diol diacrylate LD 50 (Rabbit): 3,650 mg/kg Experimental result, Key study

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Inhalation

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

Components:

Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
2-(2-Vinyloxyethoxy) ethyl acrylate	LC 50 (Rat, 4 h) > 5.04 mg/l Dust, Experimental result, Key study
2-Propenoic acid ,1-6-hexanediyl ester, polymer with 2-aminoethanol	No data available.
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	No data available.
Ethyl 4-dimethylaminobenzoate	No data available.
2-Isopropyl-9H-thioxanthen-9-one	No data available.
Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	No data available.
hexamethylene diacrylate; hexane-1,6-diol diacrylate	LC 0 (Rat, 7 h) 0.41 mg/l Vapor, Experimental result, Key study

Repeated dose toxicity

Product: No data available.

Components:

Oxybis(methyl-2,1-ethanediyl) diacrylate	NOAEL (Rat(Female, Male), Oral, 28 - 52 d): 250 mg/kg
2-(2-Vinyloxyethoxy) ethyl acrylate	NOAEL (Rat(Female, Male), Oral, 28 d): 160 mg/kg
2-Propenoic acid ,1-6-hexanediyl ester, polymer with 2-aminoethanol	No data available.
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	NOAEL (Rat(Female, Male), Oral, 28 d): 50 mg/kg
Ethyl 4-dimethylaminobenzoate	No data available.
2-Isopropyl-9H-thioxanthen-9-one	No data available.
Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	No data available.
hexamethylene diacrylate; hexane-1,6-diol diacrylate	No data available.

Skin Corrosion/Irritation:

Product: Causes skin irritation.

Components:

Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
2-(2-Vinyloxyethoxy) ethyl acrylate	in vivo (Rabbit): Not irritant Experimental result, Key study

SAFETY DATA SHEET

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

2-Propenoic acid ,1-6-hexanediyl ester, polymer with 2-aminoethanol	No data available.
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	in vivo (Rabbit): Not irritant Experimental result, Key study
Ethyl 4-dimethylaminobenzoate	No data available.
2-Isopropyl-9H-thioxanthen-9-one	No data available.
Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	No data available.
hexamethylene diacrylate; hexane-1,6-diol diacrylate	in vivo (Rabbit, 24 - 72 h): Category 2 Experimental result, Key study

Serious Eye Damage/Eye Irritation:

Product: Causes serious eye damage.

Components:

Oxybis(methyl-2,1-ethanediyl) diacrylate	in vivo (Rabbit, 24 - 72 hrs): Category 1 OECD GHS
2-(2-Vinyloxyethoxy) ethyl acrylate	in vivo (Rabbit): Not irritating EU
2-Propenoic acid ,1-6-hexanediyl ester, polymer with 2-aminoethanol	No data available.
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	No data available.
Ethyl 4-dimethylaminobenzoate	No data available.
2-Isopropyl-9H-thioxanthen-9-one	No data available.
Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	No data available.
hexamethylene diacrylate; hexane-1,6-diol diacrylate	Irritating

Respiratory or Skin

Sensitization:

Product: May cause an allergic skin reaction.

Components:

Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
2-(2-Vinyloxyethoxy) ethyl acrylate	No data available.
2-Propenoic acid ,1-6-hexanediyl ester, polymer with 2-aminoethanol	No data available.

SAFETY DATA SHEET

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

Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	No data available.
Ethyl 4-dimethylaminobenzoate	No data available.
2-Isopropyl-9H-thioxanthen-9-one	No data available.
Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	No data available.
hexamethylene diacrylate; hexane-1,6-diol diacrylate	Skin sensitization:, in vivo (Guinea pig): Sensitising

Germ Cell Mutagenicity

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

In vitro

Components:

Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
2-(2-Vinyloxyethoxy) ethyl acrylate	No data available.
2-Propenoic acid ,1-6-hexanediyl ester, polymer with 2-aminoethanol	No data available.
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	No data available.
Ethyl 4-dimethylaminobenzoate	No data available.
2-Isopropyl-9H-thioxanthen-9-one	No data available.
Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	No data available.
hexamethylene diacrylate; hexane-1,6-diol diacrylate	No data available.

In vivo

Components:

Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
2-(2-Vinyloxyethoxy) ethyl acrylate	No data available.
2-Propenoic acid ,1-6-hexanediyl ester, polymer with 2-aminoethanol	No data available.
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	No data available.
Ethyl 4-dimethylaminobenzoate	No data available.
2-Isopropyl-9H-thioxanthen-9-one	No data available.

SAFETY DATA SHEET

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

Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide hexamethylene diacrylate; hexane-1,6-diol diacrylate

No data available.

No data available.

Carcinogenicity

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

Components:

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

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

2-Propenoic acid ,1-6-hexanediyl ester, polymer with 2-aminoethanol No data available.

Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide No data available.

Ethyl 4-dimethylaminobenzoate No data available.

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

Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide hexamethylene diacrylate; hexane-1,6-diol diacrylate No data available.

Reproductive toxicity

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

Components:

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

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

2-Propenoic acid ,1-6-hexanediyl ester, polymer with 2-aminoethanol No data available.

Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide No data available.

Ethyl 4-dimethylaminobenzoate No data available.

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

Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide hexamethylene diacrylate; hexane-1,6-diol diacrylate No data available.

SAFETY DATA SHEET

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

Specific Target Organ Toxicity - Single Exposure

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

Components:

Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
2-(2-Vinyloxyethoxy) ethyl acrylate	No data available.
2-Propenoic acid ,1-6-hexanediyl ester, polymer with 2-aminoethanol	No data available.
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	No data available.
Ethyl 4-dimethylaminobenzoate	No data available.
2-Isopropyl-9H-thioxanthen-9-one	No data available.
Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	No data available.
hexamethylene diacrylate; hexane-1,6-diol diacrylate	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-ethanediyl) diacrylate	No data available.
2-(2-Vinyloxyethoxy) ethyl acrylate	No data available.
2-Propenoic acid ,1-6-hexanediyl ester, polymer with 2-aminoethanol	No data available.
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	No data available.
Ethyl 4-dimethylaminobenzoate	No data available.
2-Isopropyl-9H-thioxanthen-9-one	No data available.
Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	No data available.
hexamethylene diacrylate; hexane-1,6-diol diacrylate	No data available.

Aspiration Hazard

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

Components:

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

SAFETY DATA SHEET

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

2-Propenoic acid ,1-6-hexanediyl ester, polymer with 2-aminoethanol	No data available.
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	No data available.
Ethyl 4-dimethylaminobenzoate	No data available.
2-Isopropyl-9H-thioxanthen-9-one	No data available.
Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	No data available.
hexamethylene diacrylate; hexane-1,6-diol diacrylate	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-ethanediyl) diacrylate	No data available.
2-(2-Vinyloxyethoxy) ethyl acrylate	No data available.
2-Propenoic acid ,1-6-hexanediyl ester, polymer with 2-aminoethanol	No data available.
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	No data available.
Ethyl 4-dimethylaminobenzoate	No data available.
2-Isopropyl-9H-thioxanthen-9-one	No data available.
Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	No data available.
hexamethylene diacrylate; hexane-1,6-diol diacrylate	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

SAFETY DATA SHEET

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

Remarks:

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

Fish

Product: No data available.

Components

<p>Oxybis(methyl-2,1-ethanediyl) diacrylate 2-(2-Vinyloxyethoxy) ethyl acrylate</p>	<p>NOAEL (Leuciscus idus, 96 h): 1 mg/l (Static) Experimental result, Key study LC 50 (Leuciscus idus, 96 h): 2.2 mg/l (Static) 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</p>
<p>2-Propenoic acid ,1-6-hexanediyl ester, polymer with 2-aminoethanol</p>	<p>No data available.</p>
<p>Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide</p>	<p>LC 50 (Oryzias latipes, 48 h): +/- 6.53 mg/l (semi-static) Experimental result, Key study</p>
<p>Ethyl 4-dimethylaminobenzoate</p>	<p>No data available.</p>
<p>2-Isopropyl-9H-thioxanthen-9-one</p>	<p>No data available.</p>
<p>Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide</p>	<p>No data available.</p>
<p>hexamethylene diacrylate; hexane-1,6-diol diacrylate</p>	<p>No data available.</p>

Aquatic Invertebrates

Product: No data available.

Components

<p>Oxybis(methyl-2,1-ethanediyl) diacrylate 2-(2-Vinyloxyethoxy) ethyl acrylate</p>	<p>No data available. 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</p>
<p>2-Propenoic acid ,1-6-hexanediyl ester, polymer with 2-aminoethanol</p>	<p>No data available.</p>
<p>Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide</p>	<p>EC 50 (Daphnia magna, 48 h): 3.53 mg/l (Static) Experimental result, Key study</p>
<p>Ethyl 4-dimethylaminobenzoate</p>	<p>No data available.</p>
<p>2-Isopropyl-9H-thioxanthen-9-one</p>	<p>No data available.</p>
<p>Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide</p>	<p>No data available.</p>
<p>hexamethylene</p>	<p>No data available.</p>

SAFETY DATA SHEET

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

diacrylate; hexane-1,6-
diol diacrylate**Toxicity to Aquatic Plants****Product:** No data available.**Components**

Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
2-(2-Vinyloxyethoxy) ethyl acrylate	No data available.
2-Propenoic acid ,1-6-hexanediyl ester, polymer with 2-aminoethanol	No data available.
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	No data available.
Ethyl 4-dimethylaminobenzoate	No data available.
2-Isopropyl-9H-thioxanthen-9-one	No data available.
Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	No data available.
hexamethylene diacrylate; hexane-1,6-diol diacrylate	No data available.

Toxicity to microorganisms**Product:** No data available.**Components**

Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
2-(2-Vinyloxyethoxy) ethyl acrylate	No data available.
2-Propenoic acid ,1-6-hexanediyl ester, polymer with 2-aminoethanol	No data available.
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	No data available.
Ethyl 4-dimethylaminobenzoate	No data available.
2-Isopropyl-9H-thioxanthen-9-one	No data available.
Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	EC50 (Bacteria, 3 h): > 100 mg/l (OECD-Guideline No.209; 88/302/EEC C.11)
hexamethylene diacrylate; hexane-1,6-diol diacrylate	EC50 (0.5 h): ca. 270 mg/l (OECD-Guideline No.209; 88/302/EEC C.11)

Chronic Toxicity**Remarks:**

SAFETY DATA SHEET

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

Harmful to aquatic life with long lasting effects.

Fish

Product: No data available.

Components

Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
2-(2-Vinyloxyethoxy) ethyl acrylate	No data available.
2-Propenoic acid ,1-6-hexanediyl ester, polymer with 2-aminoethanol	No data available.
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	No data available.
Ethyl 4-dimethylaminobenzoate	No data available.
2-Isopropyl-9H-thioxanthen-9-one	No data available.
Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	No data available.
hexamethylene diacrylate; hexane-1,6-diol diacrylate	No data available.

Aquatic Invertebrates

Product: No data available.

Components

Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
2-(2-Vinyloxyethoxy) ethyl acrylate	No data available.
2-Propenoic acid ,1-6-hexanediyl ester, polymer with 2-aminoethanol	No data available.
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	No data available.
Ethyl 4-dimethylaminobenzoate	No data available.
2-Isopropyl-9H-thioxanthen-9-one	No data available.
Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	No data available.
hexamethylene diacrylate; hexane-1,6-diol diacrylate	No data available.

Toxicity to Aquatic Plants

Product: No data available.

Components

Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
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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	No data available.
2-Propenoic acid ,1-6-hexanediyl ester, polymer with 2-aminoethanol	No data available.
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	No data available.
Ethyl 4-dimethylaminobenzoate	No data available.
2-Isopropyl-9H-thioxanthen-9-one	No data available.
Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	No data available.
hexamethylene diacrylate; hexane-1,6-diol diacrylate	No data available.

12.2 Persistence and Degradability

Biodegradation

Product: No data available.

Components

Oxybis(methyl-2,1-ethanediyl) diacrylate	(28 d): 90 - 100 % Detected in water. Experimental result, Key study
2-(2-Vinyloxyethoxy) ethyl acrylate	(28 d): > 84.4 % Detected in water. Experimental result, Key study OECD 301D Readily biodegradable 82 %
2-Propenoic acid ,1-6-hexanediyl ester, polymer with 2-aminoethanol	No data available.
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	(28 d): > 0 - 10 % Detected in water. Experimental result, Key study
Ethyl 4-dimethylaminobenzoate	No data available.
2-Isopropyl-9H-thioxanthen-9-one	No data available.
Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	No data available.
hexamethylene diacrylate; hexane-1,6-diol diacrylate	(28 d): 60 - 70 % Detected in water. Experimental result, Key study

BOD/COD Ratio

Product No data available.

Components

Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
2-(2-Vinyloxyethoxy) ethyl acrylate	No data available.
2-Propenoic acid ,1-6-hexanediyl ester, polymer with 2-aminoethanol	No data available.

SAFETY DATA SHEET

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

Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	No data available.
Ethyl 4-dimethylaminobenzoate	No data available.
2-Isopropyl-9H-thioxanthen-9-one	No data available.
Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	No data available.
hexamethylene diacrylate; hexane-1,6-diol diacrylate	No data available.

12.3 Bioaccumulative potential

Product: No data available.

Components

Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
2-(2-Vinyloxyethoxy) ethyl acrylate	No data available.
2-Propenoic acid ,1-6-hexanediyl ester, polymer with 2-aminoethanol	No data available.
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	Cyprinus carpio, Bioconcentration Factor (BCF): 22 - 32 Aquatic sediment Experimental result, Key study
Ethyl 4-dimethylaminobenzoate	No data available.
2-Isopropyl-9H-thioxanthen-9-one	No data available.
Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	No data available.
hexamethylene diacrylate; hexane-1,6-diol diacrylate	No data available.

12.4 Mobility in soil

Product: No data available.

Components

Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
2-(2-Vinyloxyethoxy) ethyl acrylate	No data available.
2-Propenoic acid ,1-6-hexanediyl ester, polymer with 2-aminoethanol	No data available.
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	No data available.
Ethyl 4-dimethylaminobenzoate	No data available.

SAFETY DATA SHEET

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

2-Isopropyl-9H-thioxanthen-9-one	No data available.
Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	No data available.
hexamethylene diacrylate; hexane-1,6-diol diacrylate	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 bioaccumulative) criteria

Components

Oxybis(methyl-2,1-ethanediyl) diacrylate	No data available.
2-(2-Vinyloxyethoxy) ethyl acrylate	No data available.
2-Propenoic acid ,1-6-hexanediyl ester, polymer with 2-aminoethanol	No data available.
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	No data available.
Ethyl 4-dimethylaminobenzoate	No data available.
2-Isopropyl-9H-thioxanthen-9-one	No data available.
Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	No data available.
hexamethylene diacrylate; hexane-1,6-diol diacrylate	No data available.

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-2,1-ethanediyl) diacrylate	No data available.
2-(2-Vinyloxyethoxy) ethyl acrylate	No data available.
2-Propenoic acid ,1-6-hexanediyl ester, polymer with 2-aminoethanol	No data available.
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	No data available.

SAFETY DATA SHEET

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

Ethyl 4-dimethylaminobenzoate	No data available.
2-Isopropyl-9H-thioxanthen-9-one	No data available.
Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	No data available.
hexamethylene diacrylate; hexane-1,6-diol diacrylate	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.
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.

SAFETY DATA SHEET

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

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:

Chemical name	CAS-No.
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8
Octamethylcyclotetrasiloxane	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

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

SAFETY DATA SHEET

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

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 oxide	75980-60-8	1.0 - 10%
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 environment	100 t	200 t

EU. Regulation No. 166/2006 PRTR (Pollutant Release and Transfer Registry), Annex II: Pollutants:

Chemical name	CAS-No.	Concentration
blue organic pigment	147-14-8	1.0 - 10%

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	0.1 - 1.0%
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:

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%
EC50	Median Effective Concentration
EC100	Effective Concentration 100%
EH40 WEL	Workplace Exposure Limit (GB)

SAFETY DATA SHEET

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

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	Occupational 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	Threshold Limit Value
TRGS900	Arbeitsplatzgrenswerte (DE)
TWA	Time Weighted Average
VOC	Volatile Organic Compound
vPvB	very Persistent and very Bioaccumulative substance

Key literature references and sources for data: Safety Data Sheet from the supplier.
 ECHA

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

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 damaging fertility.
H361f	Suspected of damaging fertility.
H373	May cause damage to organs through prolonged or

SAFETY DATA SHEET

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

	repeated exposure.
H400	Very toxic to aquatic life.
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.