

Product name: ARIGI UV HD2 BLACK INK

SDS No.: 000001017133 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 BLACK 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 H360: May damage fertility or the unborn child.

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 Ethyl 4-dimethylaminobenzoate

Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide 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. H360: May damage fertility or the unborn child. 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 y) ethyl acrylate	5 - <10%	86273-46-3	451-690-9	01- 2119441302- 54-XXXX;	No data available.	

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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.	
Ethyl 4- dimethylamino benzoate	2.5 - <5%	10287-53-3	233-634-3	No data available.	No data available.	
Diphenyl(2,4,6 - trimethylbenzo yl)phosphine oxide	1 - <3%	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.	
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	#
Cetrimonium chloride	0.01 - <0.1%	112-02-7	203-928-6	No data available.	Aquatic Toxicity (Acute): 10; Aquatic Toxicity (Chronic): 1	

^{*} 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.

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[#] This substance has workplace exposure limit(s).

^{##} This substance is listed as SVHC.



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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 Acute toxicity, dermal: LD 50: > 2,000 mg/kg	
Classification: STOT RE: 2: H373;	No data available.
Classification: Skin Irrit.: 2: H315; Eye Irrit.: 2: H319;	No data available.
Classification: Repr.: 1B: H360; Aquatic Chronic: 2: H411;	No data available.
Classification: Repr.: 2: H361f; Skin Sens.: 1: H317; Aquatic Chronic: 2: H411;	No data available.
Classification: Skin Sens.: 1A: H317; Aquatic Chronic: 4: H413;	No data available.
Classification: Skin Irrit.: 2: H315; Eye Irrit.: 2: H319; Skin Sens.: 1: H317; Aquatic Acute: 1: H400; Aquatic Chronic: 2: H411;	No data available.
Classification: Aquatic Acute: 1: H400; Aquatic Chronic: 1: H410;	No data available.
Classification: Acute Tox.: 4: H302; Acute Tox.: 3: H311; Skin Corr.: 1C: H314; Eye Dam.: 1: H318; Aquatic Acute: 1: H400; Aquatic Chronic: 1: H410; Acute toxicity, oral: LD 50: 861 mg/kg	No data available.
	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 Classification: STOT RE: 2: H373; Classification: Skin Irrit.: 2: H315; Eye Irrit.: 2: H319; Classification: Repr.: 1B: H360; Aquatic Chronic: 2: H411; Classification: Repr.: 2: H361f; Skin Sens.: 1: H317; Aquatic Chronic: 2: H411; Classification: Skin Sens.: 1A: H317; Aquatic Chronic: 4: H413; Classification: Skin Irrit.: 2: H315; Eye Irrit.: 2: H319; Skin Sens.: 1: H317; Aquatic Acute: 1: H400; Aquatic Chronic: 2: H411; Classification: Aquatic Acute: 1: H400; Aquatic Chronic: 1: H410; Classification: Acute Tox.: 4: H302; Acute Tox.: 3: H311; Skin Corr.: 1C: H314; Eye Dam.: 1: H318; Aquatic Acute: 1: H400; Aquatic Chronic: 1: H410;

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.

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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.

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.

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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

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	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
	Workers	Eyes	Local effect;	No hazard identified
	General population	Inhalation	Systemic, long-term; 0.35 mg/m3	Repeated dose toxicity
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
Ethyl 4-dimethylaminobenzoate	Workers	Inhalation	Systemic, long-term; 1.2 mg/m3	
	General population	Eyes	Local effect;	No hazard identified
	Workers	Eyes	Local effect;	No hazard identified

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	Workers	Dermal	Systemic, long-term; 0.3 mg/kg	Effect on fertility
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	
	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	mg/m3	Repeated dose toxicity
	General population	Dermal	Systemic, long-term; 1.67 mg/kg Systemic, long-term;	Repeated dose toxicity
	General population	Oral Oral	1.67 mg/kg Systemic, iong-term; 1.67 sg/kg	Repeated dose toxicity
	General population		1.67 ng/kg	Deposted does tovisity
	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	
	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

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	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	
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
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
Cetrimonium chloride	General population	Inhalation	Systemic, long-term; 0.98 mg/m3	Repeated dose toxicity
	Workers	Inhalation	Systemic, long-term; 3.32 mg/m3	Repeated dose toxicity
	General population	Eyes	Local effect;	Medium hazard (no threshold derived)
	Workers	Eyes	Local effect;	Medium hazard (no threshold derived)
	General population	Dermal	Systemic, long-term; 2.83 mg/kg	Repeated dose toxicity
	General population	Oral	Systemic, long-term; 2.83 mg/kg	Repeated dose toxicity
	Workers	Dermal	Systemic, long-term; 4.7 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	
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	
Ethyl 4-dimethylaminobenzoate	Predator	740 mg/kg	Oral

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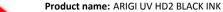
		I	
	Aquatic (marine water)	0 mg/l	
	Aquatic (freshwater)	0.002 mg/l	
	soil	0.021 mg/kg	
	Marine sediments	0.011 mg/kg	
	Sewage treatment plant	100 mg/l	
	freshwater sediment	0.113 mg/kg	
Diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide	soil	22.2 μg/kg	
	Fresh water	0.00353 mg/l	
	Marine sediments	11.5 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	
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	
Cetrimonium chloride	soil	7 mg/kg	
Commission of the contract	Aquatic (freshwater)	0.001 mg/l	
	TAQUATIC (Treshwater)		
	Aquatic (marine water)	0 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.

Individual protection measures, such as personal protective equipment

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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:liquidForm:liquidColor:Black

Odor: acrylic odor

Odor Threshold:No data available.Freezing point: $< 32 \,^{\circ}\text{F}/< 0 \,^{\circ}\text{C}$ Boiling Point: $> 212 \,^{\circ}\text{F}/> 100 \,^{\circ}\text{C}$ 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)

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Kinematic viscosity: 6.5 - 8.3 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: 1.0787

Density: not applicable not applicable Relative vapor density: 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)

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.

Eye contact: Causes serious eye damage.

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

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

11.1 Information on toxicological effects

Acute toxicity

Oral

Product: ATEmix: 22,375 mg/kg

Components:

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

ethanediyl) diacrylate 2-(2-Vinyloxyethoxy)

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

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

ethyl acrylate

2-Isopropyl-9H-No data available.

thioxanthen-9-one

2-Propenoic acid .1-6-No data available. hexanedivl ester, polymer

with 2-aminoethanol

Ethvl 4-No data available.

dimethylaminobenzoate

Diphenyl(2,4,6-

trimethylbenzoyl)phosphi

ne oxide

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

trimethylbenzoyl)phosphine oxide

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

diacrylate; hexane-1,6-

diol diacrylate

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

Cetrimonium chloride LD 50 (Rat): 861 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

2-Isopropyl-9H-

No data available.

thioxanthen-9-one

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

hexanediyl ester, polymer with 2aminoethanol

Ethyl 4-No data available.

dimethylaminobenzoat

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

trimethylbenzoyl)phosp

hine oxide

diacrylate; hexane-1,6-

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

trimethylbenzoyl)phosphine oxide hexamethylene

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

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diol diacrylate

2.6-di-tert-Butvl-p-

cresol

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

Cetrimonium chloride LD 50 (Rabbit): 528 mg/kg Read-across from supporting substance

(structural analogue or surrogate), Key study

Inhalation

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

Components:

Oxybis(methyl-2,1-

ethanediyl) diacrylate

2-(2-Vinyloxyethoxy) ethyl acrylate

2-Isopropyl-9H-

thioxanthen-9-one

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

with 2-aminoethanol

Ethyl 4-

dimethylaminobenzoate

Diphenyl(2,4,6-

trimethylbenzoyl)phosphi

ne oxide

Phenyl bis(2,4,6-

trimethylbenzoyl)phosphine oxide

hexamethylene diacrylate; hexane-1,6-

diol diacrylate

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

No data available.

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

No data available.

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

RD 50 (Mouse, 30 min)60 ppm Vapor, Experimental result, Supporting study

Cetrimonium chloride No data available.

Repeated dose toxicity

Product: No data available.

Components: Oxybis(methyl-2,1-

ethanediyl) diacrylate

2-(2-Vinyloxyethoxy)

ethyl acrylate 2-Isopropyl-9Hthioxanthen-9-one

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

with 2-aminoethanol Ethyl 4-

dimethylaminobenzoate

Diphenyl(2,4,6-

trimethylbenzoyl)phosphi

ne oxide Phenyl bis(2,4,6-

trimethylbenzoyl)-

phosphine oxide hexamethylene

diacrylate; hexane-1,6-

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

NOAEL (Rat(Female, Male), Oral, 28 d): 160 mg/kg

No data available.

No data available.

No data available.

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

No data available.

No data available.

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diol diacrylate

2.6-di-tert-Butvl-p-cresol NOAEL (Rat(Male), Oral, 76 - 110 Weeks); 70 mg/kg

Cetrimonium chloride NOAEL (Rabbit(Female, Male), Dermal, 6.5 - 7 h): 10 mg/kg

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

2-Isopropyl-9H-No data available.

thioxanthen-9-one

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

hexanediyl ester, polymer with 2aminoethanol

Ethyl 4-No data available.

dimethylaminobenzoate

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

trimethylbenzoyl)phosp

hine oxide

Phenyl bis(2,4,6-

trimethylbenzoyl)phosphine oxide

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

in vivo (Rabbit, 24 - 72 h): Not irritant Experimental result, Key study

diacrylate; hexane-1,6-

diol diacrylate

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

cresol

Cetrimonium chloride Irritating

Serious Eye Damage/Eye Irritation:

Product: Causes serious eye damage.

Components:

Oxybis(methyl-2,1in vivo (Rabbit, 24 - 72 hrs): Category 1 OECD GHS

No data available.

ethanediyl) diacrylate

2-(2-Vinyloxyethoxy) in vivo (Rabbit): Not irritating EU

ethyl acrylate

2-Isopropyl-9H-No data available.

thioxanthen-9-one

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

hexanediyl ester, polymer with 2aminoethanol

Ethyl 4-No data available.

dimethylaminobenzoate

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

trimethylbenzoyl)phosp

hine oxide

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

trimethylbenzoyl)phosphine oxide

hexamethylene Irritating

diacrylate; hexane-1,6-

diol diacrylate

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

cresol

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

Cetrimonium chloride Irritating

Respiratory or Skin Sensitization:

Product: May cause an allergic skin reaction.

Components:

Oxybis(methyl-2,1-

No data available.

ethanediyl) diacrylate

2-(2-Vinyloxyethoxy)

No data available.

ethyl acrylate

2-Isopropyl-9H-

No data available.

thioxanthen-9-one

2-Propenoic acid ,1-6-

No data available.

hexanediyl ester, polymer with 2aminoethanol

Ethyl 4-

No data available.

dimethylaminobenzoate

Diphenyl(2,4,6-

No data available.

trimethylbenzoyl)phosp

hine oxide

Phenyl bis(2,4,6-

No data available.

trimethylbenzoyl)phosphine oxide

hexamethylene

diacrylate; hexane-1,6-

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

diol diacrylate

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

cresol

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

Cetrimonium chloride

No data available.

Germ Cell Mutagenicity

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

In vitro

Components:

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

ethanediyl) diacrylate

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

acrylate

Ethyl 4-

2-Isopropyl-9H-

No data available.

thioxanthen-9-one

2-Propenoic acid ,1-6-

No data available.

hexanediyl ester, polymer

with 2-aminoethanol

dimethylaminobenzoate

Diphenyl(2,4,6-

No data available.

trimethylbenzoyl)phosphi

No data available.

ne oxide Phenyl bis(2,4,6-

No data available.

trimethylbenzoyl)phosphine oxide

SDS_GB 15/30 No data available.



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hexamethylene

diacrylate: hexane-1.6-

diol diacrylate

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

In vivo

Components:

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

ethanediyl) diacrylate

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

acrylate

2-Isopropyl-9H-No data available.

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

No data available.

with 2-aminoethanol

Ethyl 4-No data available.

dimethylaminobenzoate

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

trimethylbenzoyl)phosphi

ne oxide

Phenyl bis(2,4,6-

trimethylbenzoyl)phosphine oxide

hexamethylene

diacrylate; hexane-1,6-

diol diacrylate

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

No data available.

No data available.

No data available. No data available.

Carcinogenicity

Product: Not classified The carbon black in this product is embedded in a matrix

which minimizes the likelihood of exposure to the pigment.

Components:

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

ethanediyl) diacrylate

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

acrvlate

2-Isopropyl-9H-No data available.

thioxanthen-9-one

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

hexanediyl ester, polymer

with 2-aminoethanol

Ethyl 4-No data available.

dimethylaminobenzoate

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

trimethylbenzoyl)phosphi

ne oxide

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

trimethylbenzoyl)phosphine oxide

hexamethylene No data available.

diacrylate; hexane-1,6-

diol diacrylate

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

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Reproductive toxicity

Product: May damage fertility or the unborn child.

Components:

Oxybis(methyl-2,1-

No data available.

ethanediyl) diacrylate 2-(2-Vinyloxyethoxy) ethyl

No data available.

acrylate

2-Isopropyl-9H-

No data available.

thioxanthen-9-one

2-Propenoic acid ,1-6-

No data available.

hexanediyl ester, polymer

with 2-aminoethanol

Ethyl 4-

dimethylaminobenzoate

No data available.

Diphenyl(2,4,6trimethylbenzoyl)phosphi

No data available.

ne oxide

Phenyl bis(2,4,6-

No data available.

trimethylbenzoyl)phosphine oxide

hexamethylene

No data available.

diacrylate; hexane-1,6-

diol diacrylate

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

ethanediyl) diacrylate

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

acrylate

2-Isopropyl-9H-

No data available.

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

No data available.

hexanediyl ester, polymer

with 2-aminoethanol

Ethyl 4-No data available.

dimethylaminobenzoate

Diphenyl(2,4,6-

No data available.

trimethylbenzoyl)phosphi

ne oxide

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

trimethylbenzoyl)phosphine oxide

hexamethylene No data available.

diacrylate; hexane-1,6-

diol diacrylate

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

Specific Target Organ Toxicity - Repeated Exposure

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

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Components:

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

ethanediyl) diacrylate

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

acrylate

2-Isopropyl-9H-No data available.

thioxanthen-9-one

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

hexanediyl ester, polymer with 2-aminoethanol

Ethyl 4-No data available.

dimethylaminobenzoate

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

trimethylbenzoyl)phosphi

ne oxide

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

trimethylbenzoyl)phosphine oxide

hexamethylene No data available.

diacrylate; hexane-1,6-

diol diacrylate

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

Aspiration Hazard

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

No data available.

No data available.

Components:

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

ethanediyl) diacrylate

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

acrylate

2-Isopropyl-9H-No data available.

thioxanthen-9-one

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

hexanediyl ester, polymer

with 2-aminoethanol

Ethyl 4-No data available.

dimethylaminobenzoate

Diphenyl(2,4,6-

trimethylbenzoyl)phosphi

ne oxide

Phenyl bis(2,4,6-

trimethylbenzoyl)phosphine oxide

hexamethylene No data available.

diacrylate; hexane-1,6-

diol diacrylate

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

11.2 Information on health hazards

Endocrine Disruption

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

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

2-Isopropyl-9H-No data available.

thioxanthen-9-one

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

with 2-aminoethanol

Ethyl 4-

No data available.

dimethylaminobenzoate

Diphenyl(2,4,6-

No data available.

trimethylbenzoyl)phosphi

ne oxide

No data available.

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

No data available.

diacrylate; hexane-1,6-

diol diacrylate

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

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

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

2-(2-Vinyloxyethoxy) LC 50 (Danio rerio, 96 h): 6.8 mg/l (semi-static) Experimental result, Key

ethyl acrylate

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

2-Isopropyl-9H-No data available.

SDS_GB 19/30 No data available.

No data available.

No data available.

No data available.

Key study



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thioxanthen-9-one

2-Propenoic acid .1-6-

hexanediyl ester, polymer with 2-aminoethanol

Ethyl 4-

dimethylaminobenzoate

Diphenyl(2,4,6-

trimethylbenzoyl)phosphi

ne oxide

Phenyl bis(2,4,6-

trimethylbenzoyl)phosphine oxide

hexamethylene diacrylate; hexane-1,6-

diol diacrylate

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

Cetrimonium chloride

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

LC 50 (Danio rerio, 96 h): 0.19 - 0.29 mg/l (Static) Experimental result, Key

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

study

Aquatic Invertebrates

Product:

No data available.

Components

Oxybis(methyl-2,1ethanediyl) diacrylate

2-(2-Vinyloxyethoxy) ethyl acrylate

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

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

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

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

EC 50 (Daphnia magna, 48 h): +/- 0.09 mg/l (Static) Read-across from

supporting substance (structural analogue or surrogate), Key study

study

study

study 2-Isopropyl-9H-No data available.

thioxanthen-9-one

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

with 2-aminoethanol

Ethyl 4-

dimethylaminobenzoate

Diphenyl(2,4,6-

trimethylbenzoyl)phosphi

ne oxide

Phenvl bis(2.4.6trimethylbenzoyl)phosphine oxide

hexamethylene

diacrylate; hexane-1,6-

diol diacrylate

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

Cetrimonium chloride

Toxicity to Aquatic Plants

No data available.

Components

Product:

Oxybis(methyl-2,1ethanediyl) diacrylate

2-(2-Vinyloxyethoxy)

ethyl acrylate

No data available.

No data available.

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2-Isopropyl-9H-

No data available.

thioxanthen-9-one

2-Propenoic acid ,1-6-

hexanediyl ester, polymer

with 2-aminoethanol

Ethyl 4-

dimethylaminobenzoate Diphenyl(2,4,6-

trimethylbenzoyl)phosphi

ne oxide

Phenyl bis(2,4,6-

trimethylbenzoyl)phosphine oxide

hexamethylene diacrylate; hexane-1,6-

diol diacrylate

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

No data available.

No data available. No data available.

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

2-Isopropyl-9H-No data available.

thioxanthen-9-one

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

with 2-aminoethanol

Ethyl 4-No data available.

dimethylaminobenzoate

Diphenyl(2,4,6-

trimethylbenzoyl)phosphi

ne oxide

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

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

trimethylbenzoyl)-C.11)

phosphine oxide

hexamethylene

diacrylate; hexane-1,6-

diol diacrylate

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

ethanediyl) diacrylate

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2-(2-Vinyloxyethoxy) ethyl acrylate

No data available.

2-Isopropyl-9H-

No data available.

thioxanthen-9-one

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

No data available.

with 2-aminoethanol

Ethyl 4-

dimethylaminobenzoate

No data available.

Diphenyl(2,4,6-

trimethylbenzoyl)phosphi

No data available.

ne oxide

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

No data available.

hexamethylene diacrylate; hexane-1,6No data available.

diol diacrylate

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

No data available. 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 2-Isopropyl-9H-

No data available.

thioxanthen-9-one

No data available.

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

with 2-aminoethanol

Ethyl 4-

No data available.

dimethylaminobenzoate

No data available.

Diphenyl(2,4,6trimethylbenzoyl)phosphi

ne oxide

Phenyl bis(2.4.6-

No data available.

trimethylbenzoyl)phosphine oxide

No data available.

hexamethylene diacrylate; hexane-1,6-

No data available.

diol diacrylate

No data available.

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

Toxicity to Aquatic Plants Product: No data available.

Components

Oxybis(methyl-2,1-

No data available.

ethanediyl) diacrylate 2-(2-Vinyloxyethoxy)

No data available.

ethyl acrylate 2-Isopropyl-9H-

No data available.

thioxanthen-9-one

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

with 2-aminoethanol

Ethyl 4-

dimethylaminobenzoate

Diphenyl(2,4,6-

trimethylbenzoyl)phosphi

ne oxide

Phenyl bis(2,4,6trimethylbenzovl)-

phosphine oxide

hexamethylene

diacrylate; hexane-1,6-

diol diacrylate

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

No data available.

No data available. No data available.

12.2 Persistence and Degradability

Biodegradation

Product: No data available.

Components

Oxybis(methyl-2,1ethanediyl) diacrylate

2-(2-Vinyloxyethoxy) ethyl

acrylate

2-Isopropyl-9H-

thioxanthen-9-one

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

with 2-aminoethanol

Ethyl 4-

dimethylaminobenzoate

Diphenyl(2,4,6-

trimethylbenzoyl)phosphi

ne oxide

Phenyl bis(2,4,6trimethylbenzoyl)-

phosphine oxide hexamethylene

diacrylate; hexane-1,6-

diol diacrylate

2.6-di-tert-Butyl-p-cresol

Cetrimonium chloride

(28 d): 90 - 100 % Detected in water. Experimental result, Key study

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

No data available.

No data available.

No data available.

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

No data available.

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

(28 d): 4.5 % Detected in water. Experimental result, Key study (28 d): 93.5 % 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

acrylate

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

No data available.

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

No data available.

Ethyl 4-

with 2-aminoethanol

No data available.

dimethylaminobenzoate Diphenyl(2,4,6-

trimethylbenzoyl)phosphi

No data available.

ne oxide

Phenyl bis(2,4,6-

trimethylbenzovl)phosphine oxide

No data available.

hexamethylene

No data available.

diacrylate; hexane-1,6-

diol diacrylate

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

Cetrimonium chloride

12.3 Bioaccumulative potential

Product: No data available.

Components

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

2-(2-Vinyloxyethoxy) ethyl

No data available.

acrylate

2-Isopropyl-9H-

No data available.

thioxanthen-9-one

2-Propenoic acid ,1-6-

hexanediyl ester, polymer

with 2-aminoethanol

No data available.

Ethyl 4-

dimethylaminobenzoate

No data available.

Diphenyl(2,4,6-

Cyprinus carpio, Bioconcentration Factor (BCF): 22 - 32 Aquatic sediment Experimental result, Key study

trimethylbenzoyl)phosphi

ne oxide Phenyl bis(2,4,6-

trimethylbenzoyl)phosphine oxide

No data available.

hexamethylene diacrylate; hexane-1,6-

No data available.

diol diacrylate

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

Bioconcentration Factor (BCF): 598.4 Aquatic sediment Estimated by

calculation, Weight of Evidence study

Bioconcentration Factor (BCF): 70.8 Aquatic sediment Estimated by Cetrimonium chloride

calculation, Key study

12.4 Mobility in soil

Product: No data available.

Components

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

ethanediyl) diacrylate

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

acrylate

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

9-one

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

with 2-aminoethanol

Ethyl 4-

dimethylaminobenzoate

Diphenyl(2,4,6-

trimethylbenzoyl)phosphine

oxide

Phenyl bis(2,4,6trimethylbenzovl)-

phosphine oxide hexamethylene diacrylate;

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

Cetrimonium chloride

No data available.

No data available. No data available.

No data available.

No data available.

No data available.

No data available.

No data available.

No data available.

No data available.

No data available.

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-

ethanediyl) diacrylate

2-(2-Vinyloxyethoxy)

ethyl acrylate

2-Isopropyl-9H-

thioxanthen-9-one

2-Propenoic acid ,1-

6-hexanediyl ester, polymer with 2aminoethanol

Ethyl 4-

dimethylaminobenzo

ate

Diphenyl(2,4,6-

trimethylbenzoyl)pho

sphine oxide Phenvl bis(2.4.6trimethylbenzoyl)-

phosphine oxide hexamethylene

diacrylate; hexane-

1,6-diol diacrylate

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

cresol Cetrimonium

No data available.

chloride

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.

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Components:

Oxvbis(methyl-2.1-

No data available.

ethanediyl) diacrylate

2-(2-Vinyloxyethoxy) ethyl

No data available.

acrylate

2-Isopropyl-9H-thioxanthen-

No data available.

9-one

Ethyl 4-

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

with 2-aminoethanol

No data available.

dimethylaminobenzoate

Diphenyl(2,4,6-

trimethylbenzoyl)phosphine

oxide

No data available.

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

oxide

No data available.

hexamethylene diacrylate;

hexane-1,6-diol diacrylate

No data available.

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

No data available. No data available.

12.7 Other adverse effects:

Cetrimonium chloride

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.

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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.

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	75980-60-8
oxide	
Octamethylcyclotetrasiloxane	556-67-2

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I,

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

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

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	100 t	200 t
environment		

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	0.1 - 1.0%

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	75980-60-8	1.0 - 10%
oxide		
Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine	162881-26-7	1.0 - 10%
oxide		
hexamethylene diacrylate; hexane-1,6-diol	13048-33-4	0.1 - 1.0%
diacrylate		
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

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	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%
EC10	Median Effective Concentration
EC30 EC100	
EH40 WEL	Effective Concentration 100%
	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: 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

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Chronic hazards to the aquatic environment,	Calculation method
Category 3	

Wording of the H-statements in section 2 and 3

H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H360	May damage fertility or the unborn child.
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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