

Trade name: FotoTec SL.E opaque

Substance number: 9725

Version: 1 / GB

Date revised: 27.07.2023

Replaces Version: - / GB

Print date: 27.07.2023

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

1.1. Product identifier

FotoTec SL.E opaque

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

Use of the substance/preparation

Light-curing material for the production of earmolds by means of 3D printing processes

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

Dreve Otoplastik GmbH

Max-Planck-Straße 31

59423 Unna

Telephone no. +49 2303 8807-0

Fax no. +49 2303 8807-29

Information provided by / telephone Department Research & Development: Fax: +49 2303 8807-562

E-mail address of person responsible for this SDS sicherheitsdatenblatt@dreve.de

1.4. Emergency telephone number

Henkel Fire Department / 24h-Emergency-Contact-No.: +49 211 797-3350

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (Regulation (EC) No. 1272/2008)

Classification (Regulation (EC) No. 1272/2008)

Eye Irrit. 2 H319

Skin Sens. 1 H317

Repr. 1B H360D

Aquatic Chronic 3 H412

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008

For explanation of abbreviations see section 16.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms



Signal word

Danger



Trade name: FotoTec SL.E opaque

Substance number: 9725

Version: 1 / GB

Date revised: 27.07.2023

Replaces Version: - / GB

Print date: 27.07.2023

Hazard statements

H319	Causes serious eye irritation.
H317	May cause an allergic skin reaction.
H360D	May damage the unborn child.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/ attention.
P501.1	Dispose of contents/container to industrial incineration plant.

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

contains	Tetrahydrofurfuryl methacrylate; Hydroxylpropyl methacrylate; 7,7,9(7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahehexadecane-1,16-diylbismethacrylate; Propylidynetrimethanol, ethoxylated, esters with acrylic acid
----------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Supplemental information**Further supplemental information**

Restricted to professional users

2.3. Other hazards

No special hazards have to be mentioned.

The product contains no PBT substances. The product contains no vPvB substances. This product does not contain a substance that has endocrine disrupting properties with respect to human. The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

SECTION 3: Composition/information on ingredients**3.2. Mixtures****Hazardous ingredients****Bisphenol A, ethoxylated, dimethacrylate**

CAS No.	41637-38-1
EINECS no.	609-946-4
Registration no.	01-2119980659-17
Concentration	>= 25 < 50 %
Classification (Regulation (EC) No. 1272/2008)	Aquatic Chronic 4 H413

7,7,9(7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahehexadecane-1,16-diylbismethacrylate

CAS No.	72869-86-4
EINECS no.	276-957-5
Registration no.	01-2120751202-68
Concentration	>= 10 < 25 %
Classification (Regulation (EC) No. 1272/2008)	Skin Sens. 1B H317 Aquatic Chronic 2 H411

Aliphatic urethane methacrylate



Trade name: FotoTec SL.E opaque

Substance number: 9725

Version: 1 / GB

Date revised: 27.07.2023

Replaces Version: - / GB

Print date: 27.07.2023

Concentration	>=	10	<	25	%
Classification (Regulation (EC) No. 1272/2008)					
		Eye Irrit. 2		H319	

Tetrahydrofurfuryl methacrylate

CAS No.	2455-24-5				
EINECS no.	219-529-5				
Registration no.	01-2120748481-53				
Concentration	>=	1	<	10	%
Classification (Regulation (EC) No. 1272/2008)					
		Skin Sens. 1		H317	
		Repr. 1B		H360D	
		Aquatic Chronic 3		H412	

Hydroxypropyl methacrylate

CAS No.	27813-02-1				
EINECS no.	248-666-3				
Registration no.	01-2119490226-37				
Concentration	>=	1	<	10	%
Classification (Regulation (EC) No. 1272/2008)					
		Eye Irrit. 2		H319	
		Skin Sens. 1		H317	

ATE	oral	2.000	mg/kg
-----	------	-------	-------

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

CAS No.	75980-60-8				
EINECS no.	278-355-8				
Registration no.	01-2119972295-29				
Concentration	>=	1	<	3	%
Classification (Regulation (EC) No. 1272/2008)					
		Repr. 2		H361f	

Supplemental information

The substance is contained in the Candidate List for inclusion in Annex XIV of Regulation (EC) No. 1907/2006 (REACH).

Propylidynetrimethanol, ethoxylated, esters with acrylic acid

CAS No.	28961-43-5				
EINECS no.	500-066-5				
Registration no.	01-2119489900-30				
Concentration	>=	0,1	<	1	%
Classification (Regulation (EC) No. 1272/2008)					
		Eye Irrit. 2		H319	
		Skin Sens. 1B		H317	
		Aquatic Chronic 3		H412	

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

Remove contaminated clothing immediately and dispose of safely. Adhere to personal protective measures when giving first aid



Trade name: FotoTec SL.E opaque

Substance number: 9725

Version: 1 / GB

Date revised: 27.07.2023

Replaces Version: - / GB

Print date: 27.07.2023

After inhalation

Remove the casualty into fresh air and keep him calm. In the event of symptoms take medical treatment.

After skin contact

After contact with skin, wash immediately with plenty of water and soap. Consult a doctor if skin irritation persists.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Take medical treatment.

After ingestion

Call in a physician immediately and show him the Safety Data Sheet. Rinse mouth thoroughly with water. Let plenty of water be drunk in small gulps. Do not induce vomiting.

Adhere to personal protective measures when giving first aid

First aider: Pay attention to self-protection!

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

Until now no symptoms known so far.

4.3. Indication of any immediate medical attention and special treatment needed**Hints for the physician / hazards**

In the case of swallowing with subsequent vomiting, aspiration of the lungs can occur which can lead to chemical pneumonia or asphyxiation.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Recommended: alcohol resistant foam, CO₂, powders, water spray/mist, Extinguishing measures to suit surroundings

Non suitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

In case of combustion evolution of dangerous gases possible.

5.3. Advice for firefighters**Special protective equipment for fire-fighting**

Do not inhale explosion and/or combustion gases. In case of combustion use a suitable breathing apparatus. Wear full protective suit.

Other information

Collect contaminated fire-fighting water separately, must not be discharged into the drains. Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations. Observe manufacturer's / distributor's instructions.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Keep away sources of ignition. Ensure adequate ventilation. Use breathing apparatus if exposed to vapours/dust/aerosol. Avoid contact with skin, eyes and clothing. Use personal protective clothing. Refer to protective measures listed in Sections 7 and 8.



Trade name: FotoTec SL.E opaque

Substance number: 9725

Version: 1 / GB

Date revised: 27.07.2023

Replaces Version: - / GB

Print date: 27.07.2023

6.2. Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers). Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil. Retain and dispose of contaminated wash water. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

Pick up rest with suitable absorbent materials. Do not pick up with the help of saw-dust or other combustible substances. Clean contaminated floors and objects thoroughly, observing environmental regulations. Containers in which spilt substance has been collected must be adequately labelled. Dispose of as prescribed.

6.4. Reference to other sections

Refer to protective measures listed in Sections 7 and 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Provide good ventilation of working area (local exhaust ventilation if necessary). Avoid formation of aerosols. Avoid impact, friction and electro-static loading; risk of ignition!. Keep container tightly closed.

Advice on protection against fire and explosion

Keep away from sources of heat and ignition. No smoking. Take action to prevent static discharges. Avoid impact and friction. Use only explosion-proof equipment. Keep away from combustible material. Wear shoes with conductive soles.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep in original packaging, tightly closed. Storage rooms must be properly ventilated. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Hints on storage assembly

Do not store together with foodstuffs. Do not store with strong oxidizing agents.

Further information on storage conditions

Keep under lock and key or accessible only to specialists or people who are authorized. Keep container tightly closed and in a well-ventilated place. Keep in a cool place

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Other information

Contains no substances with occupational exposure limit values.

Derived No/Minimal Effect Levels (DNEL/DMEL)

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

Type of value	Derived No Effect Level (DNEL)
Reference group	Worker
Duration of exposure	Long term
Route of exposure	dermal
Mode of action	Systemic effects



Trade name: FotoTec SL.E opaque

Substance number: 9725

Version: 1 / GB

Date revised: 27.07.2023

Replaces Version: - / GB

Print date: 27.07.2023

Concentration 0,233 mg/kg/d

Type of value Derived No Effect Level (DNEL)

Reference group Consumer

Duration of exposure Long term

Route of exposure inhalative

Mode of action Systemic effects

Concentration 0,145 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group Consumer

Duration of exposure Long term

Route of exposure dermal

Mode of action Systemic effects

Concentration 0,0833 mg/kg/d

Type of value Derived No Effect Level (DNEL)

Reference group Consumer

Duration of exposure Long term

Route of exposure oral

Mode of action Systemic effects

Concentration 0,0833 mg/kg/d

Bisphenol A, ethoxylated, dimethacrylate

Type of value Derived No Effect Level (DNEL)

Reference group Worker

Duration of exposure Long term

Route of exposure inhalative

Mode of action Systemic effects

Concentration 3,52 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group Worker

Duration of exposure Long term

Route of exposure dermal

Mode of action Systemic effects

Concentration 2 mg/kg

Type of value Derived No Effect Level (DNEL)

Reference group Consumer

Duration of exposure Long term

Route of exposure inhalative

Mode of action Systemic effects

Concentration 0,87 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group Consumer

Duration of exposure Long term

Route of exposure dermal

Mode of action Systemic effects

Concentration 1 mg/kg

Type of value Derived No Effect Level (DNEL)

Reference group Consumer

Duration of exposure Long term

Route of exposure oral



Trade name: FotoTec SL.E opaque

Substance number: 9725

Version: 1 / GB

Date revised: 27.07.2023

Replaces Version: - / GB

Print date: 27.07.2023

Mode of action	Systemic effects	
Concentration	0,5	mg/kg

Tetrahydrofurfuryl methacrylate

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	3,53	mg/m ³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	1	mg/kg

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	0,87	mg/m ³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	oral	
Mode of action	Systemic effects	
Concentration	0,5	mg/kg

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	0,5	mg/kg

Hydroxypropyl methacrylate

Reference substance	Hydroxypropyl methacrylate	
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Route of exposure	inhalative	
Concentration	14,7	mg/m ³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Route of exposure	dermal	
Concentration	4,2	mg/kg/d

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Route of exposure	dermal	
Concentration	2,5	mg/kg



Trade name: FotoTec SL.E opaque

Substance number: 9725

Version: 1 / GB

Date revised: 27.07.2023

Replaces Version: - / GB

Print date: 27.07.2023

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Route of exposure	inhalative	
Concentration	8,8	mg/m ³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Route of exposure	oral	
Concentration	2,5	mg/kg

7,7,9(7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahehexadecane-1,16-diylbismethacrylate

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	3,3	mg/m ³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	1,3	mg/kg

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	0,6	mg/m ³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	oral	
Mode of action	Systemic effects	
Concentration	0,3	mg/kg

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	0,7	mg/kg

Propylidynetrimethanol, ethoxylated, esters with acrylic acid

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	37	mg/m ³

Type of value	Derived No Effect Level (DNEL)	
---------------	--------------------------------	--



Trade name: FotoTec SL.E opaque

Substance number: 9725

Version: 1 / GB

Date revised: 27.07.2023

Replaces Version: - / GB

Print date: 27.07.2023

Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	10,5	mg/kg

Predicted No Effect Concentration (PNEC)**Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide**

Type of value	PNEC	
Type	Saltwater	
Concentration	0,00014	mg/l
Type of value	PNEC	
Type	Freshwater sediment	
Concentration	0,115	mg/kg
Type of value	PNEC	
Type	Marine sediment	
Concentration	0,0115	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	0,0222	mg/kg

Tetrahydrofurfuryl methacrylate

Type of value	PNEC	
Type	Freshwater	
Concentration	0,347	mg/l
Type of value	PNEC	
Type	Saltwater	
Concentration	0,035	mg/l
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	15,8	mg/l
Type of value	PNEC	
Type	Freshwater sediment	
Concentration	2,12	mg/kg
Type of value	PNEC	
Type	Marine sediment	
Concentration	0,212	mg/kg
Type of value	PNEC	
Type	Water (intermittent release)	
Concentration	0,347	mg/l
Type of value	PNEC	
Type	Soil	
Concentration	0,221	mg/kg

Hydroxypropyl methacrylate

Reference substance	Hydroxypropyl methacrylate
---------------------	----------------------------



Trade name: FotoTec SL.E opaque

Substance number: 9725

Version: 1 / GB

Date revised: 27.07.2023

Replaces Version: - / GB

Print date: 27.07.2023

Type of value	PNEC		
Type	Freshwater		
Concentration	0,904		mg/l
Type of value	Hydroxypropyl methacrylate PNEC		
Type	Freshwater sediment		
Concentration	6,28		mg/kg
Type of value	Hydroxypropyl methacrylate PNEC		
Type	Soil		
Concentration	0,727		mg/kg
Type of value	Hydroxypropyl methacrylate PNEC		
Type	Sewage treatment plant (STP)		
Concentration	10		mg/l
Type of value	PNEC		
Type	Marine		
Concentration	0,904		mg/l
Type of value	PNEC		
Type	Marine sediment		
Concentration	6,28		mg/kg
7,7,9(7,9,9)-trimethyl-4,13-dioxo-3,14-dioxo-5,12-diazahexadecane-1,16-diylbismethacrylate			
Type of value	PNEC		
Type	Freshwater		
Concentration	0,01		mg/l
Type of value	PNEC		
Type	Freshwater sediment		
Concentration	4,56		mg/kg
Type of value	PNEC		
Type	Saltwater		
Concentration	0,001		mg/l
Type of value	PNEC		
Type	Marine sediment		
Concentration	0,46		mg/kg
Type of value	PNEC		
Type	Soil		
Concentration	0,91		mg/kg
Type of value	PNEC		
Type	Sewage treatment plant (STP)		
Concentration	3,61		mg/l
Type of value	PNEC		
Type	Water (intermittent release)		
Concentration	0,1		mg/l



Trade name: FotoTec SL.E opaque

Substance number: 9725

Version: 1 / GB

Date revised: 27.07.2023

Replaces Version: - / GB

Print date: 27.07.2023

8.2. Exposure controls

General protective and hygiene measures

Do not smoke during work time. Hold emergency shower available. Hold eye wash fountain available. Do not inhale gases/vapours/aerosols. Avoid contact with skin and eyes. Take off immediately all contaminated clothing. Do not eat or drink during work time. Storage of foodstuffs in work rooms is forbidden. Wash hands before breaks and after work. Clean skin thoroughly after work; apply skin cream.

Respiratory protection

Do not inhale vapours; Use suitable respiratory protective device in case of insufficient ventilation

Hand protection

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Hand protection must comply with EN 374.

Appropriate Material nitrile

Eye protection

Safety glasses

Body protection

Clothing as usual in the chemical industry.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	liquid	
Colour	beige	
Odour	characteristic	
Melting point		
Remarks	not determined	
Freezing point		
Remarks	not determined	
Boiling point or initial boiling point and boiling range		
Value	> 100	°C
Flammability		
evaluation	not determined	
Upper and lower explosive limits		
Remarks	not determined	
Flash point		
Value	91	°C
Method	closed cup	
Ignition temperature		
Remarks	not determined	
Decomposition temperature		
Remarks	not determined	
pH value		



Trade name: FotoTec SL.E opaque

Substance number: 9725

Version: 1 / GB

Date revised: 27.07.2023

Replaces Version: - / GB

Print date: 27.07.2023

Remarks not determined

Viscosity

Remarks not determined

Solubility(ies)

Remarks not determined

Partition coefficient n-octanol/water (log value)

Remarks not determined

Vapour pressure

Remarks not determined

Density and/or relative densityValue 1,11 g/cm³

Temperature 20 °C

Relative vapour density

Remarks not determined

9.2. Other information**Odour threshold**

Remarks not determined

Evaporation rate (ether = 1) :

Remarks not determined

Solubility in water

Remarks virtually insoluble

Explosive properties

evaluation not determined

Oxidising properties

Remarks not determined

Other information

None known

SECTION 10: Stability and reactivity**10.1. Reactivity**

No hazardous reactions when stored and handled according to prescribed instructions.

10.2. Chemical stability

No hazardous reactions known.

10.3. Possibility of hazardous reactions

No hazardous reactions known.

10.4. Conditions to avoid

Protect from heat and direct sunlight

10.5. Incompatible materials

None known

10.6. Hazardous decomposition products

Irritant gases/vapours

Trade name: FotoTec SL.E opaque

Substance number: 9725

Version: 1 / GB

Date revised: 27.07.2023

Replaces Version: - / GB

Print date: 27.07.2023

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute oral toxicity

ATE	>	10.000	mg/kg
Method		calculated value (Regulation (EC) No. 1272/2008)	

Acute oral toxicity (Components)

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

Species	rat		
LD50	>	5000	mg/kg
Method		OECD 401	

Bisphenol A, ethoxylated, dimethacrylate

Species	rat		
LD50	>	2000	mg/kg
Remarks		Test conducted with a similar formulation.	

Tetrahydrofurfuryl methacrylate

Species	rat		
LD50		3945	mg/kg

Hydroxypropyl methacrylate

Species	rat		
LD50	>=	2000	mg/kg
Method		OECD 401	

7,7,9(7,9,9)-trimethyl-4,13-dioxo-3,14-dioxo-5,12-diazaheptadecane-1,16-diylbismethacrylate

Species	rat		
LD50	>	5000	mg/kg
Method		OECD 401	

Propylidynetrimethanol, ethoxylated, esters with acrylic acid

Species	rat		
LD50	>	2000	mg/kg
Method		OECD 401	

Aliphatic urethane methacrylate

Species	rat		
LD50	>	2000	mg/kg

Acute dermal toxicity

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

Acute dermal toxicity (Components)

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

Species	rat		
LD50	>	2000	mg/kg
Method		OECD 402	

Bisphenol A, ethoxylated, dimethacrylate

Species	rat		
LD50	>	2000	mg/kg
Method		OECD 402	
Remarks		Test conducted with a similar formulation.	

Hydroxypropyl methacrylate

Species	rabbit		
LD50	>	5000	mg/kg

7,7,9(7,9,9)-trimethyl-4,13-dioxo-3,14-dioxo-5,12-diazaheptadecane-1,16-diylbismethacrylate



Trade name: FotoTec SL.E opaque

Substance number: 9725

Version: 1 / GB

Date revised: 27.07.2023

Replaces Version: - / GB

Print date: 27.07.2023

Species	rat		
LD50	>	2000	mg/kg
Method	OECD	402	

Propylidynetrimehanol, ethoxylated, esters with acrylic acid

Species	rabbit		
LD50	>	13200	mg/kg

Aliphatic urethane methacrylate

Species	rabbit		
LD50	>	2000	mg/kg

Acute inhalational toxicity

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

Acute inhalative toxicity (Components)**Aliphatic urethane methacrylate**

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

Skin corrosion/irritation

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

Skin corrosion/irritation (Components)**Aliphatic urethane methacrylate**

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

Serious eye damage/irritation

evaluation	irritant
Remarks	The classification criteria are met.

Serious eye damage/irritation (Components)**Hydroxypropyl methacrylate**

Species	rabbit
evaluation	slightly irritant

Propylidynetrimehanol, ethoxylated, esters with acrylic acid

Species	rabbit
evaluation	irritant
Method	OECD 405

Aliphatic urethane methacrylate

Species	rabbit
evaluation	irritant

Sensitization

evaluation	May cause sensitization by skin contact.
Remarks	The classification criteria are met.

Sensitization (Components)**Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide**

Route of exposure	dermal
Species	mouse
evaluation	May cause sensitization by skin contact.

Tetrahydrofurfuryl methacrylate

Route of exposure	dermal
Species	Human
evaluation	sensitizing

Hydroxypropyl methacrylate

Species	mouse
evaluation	non-sensitizing
Method	OECD 429
Remarks	May cause sensitization by skin contact.



Trade name: FotoTec SL.E opaque

Substance number: 9725

Version: 1 / GB

Date revised: 27.07.2023

Replaces Version: - / GB

Print date: 27.07.2023

7,7,9(7,9,9)-trimethyl-4,13-dioxo-3,14-dioxo-5,12-diazahexadecane-1,16-diylbismethacrylate

Route of exposure	dermal
Species	mouse
evaluation	sensitizing

Propylidynetrimehanol, ethoxylated, esters with acrylic acid

Route of exposure	dermal
Species	guinea pig
evaluation	sensitizing
Method	OECD 406

Aliphatic urethane methacrylate

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

Subacute, subchronic, chronic toxicity

Remarks	not determined
---------	----------------

Mutagenicity

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

Mutagenicity (Components)**Aliphatic urethane methacrylate**

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

Reproductive toxicity

evaluation	May damage the unborn child.
Remarks	The classification criteria are met.

Reproduction toxicity (Components)**Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide**

evaluation	Suspected of damaging fertility.
------------	----------------------------------

Tetrahydrofurfuryl methacrylate

Route of exposure	oral
Species	rat
evaluation	May damage the unborn child.

Aliphatic urethane methacrylate

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

Carcinogenicity

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

Carcinogenicity (Components)**Aliphatic urethane methacrylate**

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

Specific Target Organ Toxicity (STOT)**Single exposure**

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

Repeated exposure

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

Specific Target Organ Toxicity (STOT) (Components)**Aliphatic urethane methacrylate**

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

Aspiration hazard

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

11.2 Information on other hazards**Endocrine disrupting properties with respect to humans**

Trade name: FotoTec SL.E opaque

Substance number: 9725

Version: 1 / GB

Date revised: 27.07.2023

Replaces Version: - / GB

Print date: 27.07.2023

The product does not contain a substance that has endocrine disrupting properties with respect to humans.

Experience in practice

Inhalation may lead to irritation of the respiratory tract.

Other information

No toxicological data are available.

SECTION 12: Ecological information

12.1. Toxicity**General information**

not determined

Fish toxicity (Components)**Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide**

Species	carp (<i>Cyprinus carpio</i>)	
LC50	1,4	mg/l
Duration of exposure	96	h
Method	OECD 203	

Bisphenol A, ethoxylated, dimethacrylate

Species	rainbow trout (<i>Oncorhynchus mykiss</i>)	
LL50	> 100	mg/l
Method	OECD 203	
Remarks	Test conducted with a similar formulation.	

Tetrahydrofurfuryl methacrylate

Species	Fathead minnow (<i>Pimephales promelas</i>)	
LC50	34,7	mg/l
Duration of exposure	96	h

Hydroxypropyl methacrylate

Species	golden orfe (<i>Leuciscus idus</i>)	
LC50	493	mg/l
Duration of exposure	48	h
Method	DIN 38412 / Part 15	

7,7,9(7,9,9)-trimethyl-4,13-dioxo-3,14-dioxo-5,12-diazahexadecane-1,16-diylbismethacrylate

Species	zebra fish (<i>Brachydanio rerio</i>)	
LC50	10,1	mg/l
Duration of exposure	96	h
Method	OECD 203	

Propylidynetrimethanol, ethoxylated, esters with acrylic acid

Species	Zebrabaerbling	
LC50	1,95	mg/l
Duration of exposure	96	h
Method	OECD 203	

Daphnia toxicity (Components)**Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide**

Species	Daphnia magna	
EC50	3,53	mg/l
Duration of exposure	48	h
Method	OECD 202	

Bisphenol A, ethoxylated, dimethacrylate

Species	Daphnia magna	
---------	---------------	--



Trade name: FotoTec SL.E opaque

Substance number: 9725

Version: 1 / GB

Date revised: 27.07.2023

Replaces Version: - / GB

Print date: 27.07.2023

EL50	>	100		mg/l
Duration of exposure		48	h	
Method		OECD 202		

Tetrahydrofurfuryl methacrylate

Species		Daphnia magna		
EC50		97,3		mg/l
Duration of exposure		21	d	
Method		OECD 211		

Hydroxypropyl methacrylate

Species		Daphnia magna		
EC50	>	143		mg/l
Duration of exposure		48	h	
Method		OECD 202		

Hydroxypropyl methacrylate

Species		Daphnia magna		
NOEC		45,2		mg/l
Duration of exposure		21	d	
Method		OECD 211		

7,7,9(7,9,9)-trimethyl-4,13-dioxo-3,14-dioxo-5,12-diazahexadecane-1,16-diylbismethacrylate

Species		Daphnia magna		
EC50		1,2		mg/l
Duration of exposure		48	h	
Method		OECD 202		

Propylidynetrimethanol, ethoxylated, esters with acrylic acid

Species		Daphnia magna		
EC50		70,7		mg/l
Duration of exposure		48	h	
Method		OECD 202		

Algae toxicity (Components)**Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide**

Species		Pseudokirchneriella subcapitata		
EC50	>	2,01		mg/l
Duration of exposure		72	h	
Method		OECD 201		

Bisphenol A, ethoxylated, dimethacrylate

Species		Pseudokirchneriella subcapitata		
EL50	>	100		mg/l
Duration of exposure		72	h	
Method		OECD 201		
Remarks		Test conducted with a similar formulation.		

Tetrahydrofurfuryl methacrylate

Species		Scenedesmus subspicatus		
EC50		100		mg/l
Duration of exposure		72	h	
Method		OECD 201		

Hydroxypropyl methacrylate

Species		Pseudokirchneriella subcapitata		
EC50	>	97,2		mg/l
Duration of exposure		72	h	
Method		OECD 201		

7,7,9(7,9,9)-trimethyl-4,13-dioxo-3,14-dioxo-5,12-diazahexadecane-1,16-diylbismethacrylate

Species		Scenedesmus subspicatus		
EC50	>	0,68		mg/l
Duration of exposure		72	h	



Trade name: FotoTec SL.E opaque

Substance number: 9725

Version: 1 / GB

Date revised: 27.07.2023

Replaces Version: - / GB

Print date: 27.07.2023

Method	OECD 201		
Propylidynetrimethanol, ethoxylated, esters with acrylic acid			
Species	Scenedesmus subspicatus		
EC50	2,2		mg/l
Duration of exposure	72	h	
Method	OECD 201		

Bacteria toxicity (Components)**Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide**

Species	activated sludge		
EC50	> 1000		mg/l
Duration of exposure	3	h	
Method	OECD 209		

Bisphenol A, ethoxylated, dimethacrylate

Species	activated sludge		
NOEC	14,3		mg/l
Duration of exposure	28	d	
Remarks	Test conducted with a similar formulation.		

7,7,9(7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diylbismethacrylate

Species	activated sludge		
NOEC	>= 36,1		mg/l
Duration of exposure	14	d	

Propylidynetrimethanol, ethoxylated, esters with acrylic acid

Species	activated sludge		
EC20	292		mg/l
Duration of exposure	3	h	
Method	OECD 209		

12.2. Persistence and degradability**General information**

not determined

Biodegradability (Components)**Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide**

Value	< 0	to	10	%
Duration of test	28	d		
evaluation	not readily degradable			

Bisphenol A, ethoxylated, dimethacrylate

Value	24			%
Duration of test	28	d		
evaluation	Readily biodegradable (according to OECD criteria)			

7,7,9(7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diylbismethacrylate

Value	22			%
Duration of test	28	d		
evaluation	not readily degradable			

Propylidynetrimethanol, ethoxylated, esters with acrylic acid

Value	58	to	61	%
Duration of test	28	d		
evaluation	Readily biodegradable (according to OECD criteria)			

Ready degradability (Components)**Tetrahydrofurfuryl methacrylate****Hydroxypropyl methacrylate**

Value	81			%
Duration of test	28	Days		



Trade name: FotoTec SL.E opaque

Substance number: 9725

Version: 1 / GB

Date revised: 27.07.2023

Replaces Version: - / GB

Print date: 27.07.2023

12.3. Bioaccumulative potential

General information

not determined

Partition coefficient n-octanol/water (log value)

Remarks not determined

Octanol/water partition coefficient (log Pow) (Components)

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

log Pow 3,1
Temperature 23 °C

Bisphenol A, ethoxylated, dimethacrylate

log Pow 4,39

Hydroxypropyl methacrylate

log Pow 0,97
Temperature 20 °C

7,7,9(7,9,9)-trimethyl-4,13-dioxo-3,14-dioxo-5,12-diazahexadecane-1,16-diylbismethacrylate

log Pow 3,39
Temperature 20 °C

Propylidynetrimethanol, ethoxylated, esters with acrylic acid

log Pow 2,89
Temperature 23 °C
Method OECD 107

Bioconcentration factor (BCF) (Components)

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

BCF 47 to 55

Concentration 0,1 mg/l

Duration of exposure 8 Weeks

Medium Freshwater

Species carp (Cyprinus carpio)

12.4. Mobility in soil

General information

not determined

12.5. Results of PBT and vPvB assessment

General information

not determined

Results of PBT and vPvB assessment

The product contains no PBT substances

The product contains no vPvB substances.

12.6 Endocrine disrupting properties

Endocrine disrupting properties with respect to the environment

The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

12.7. Other adverse effects

General information

not determined

General information / ecology

Do not allow to enter soil, waterways or waste water canal. Avoid release into the atmosphere.



Trade name: FotoTec SL.E opaque

Substance number: 9725

Version: 1 / GB

Date revised: 27.07.2023

Replaces Version: - / GB

Print date: 27.07.2023

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations for the product

Must not be disposed together with household garbage.

Dispose of waste according to applicable legislation.

Disposal recommendations for packaging

Packaging that cannot be cleaned should be disposed off as product waste.

SECTION 14: Transport information

	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
14.1. UN number or ID number	The product does not constitute a hazardous substance in land transport.	The product does not constitute a hazardous substance in sea transport.	The product does not constitute a hazardous substance in air transport.
14.2. UN proper shipping name	-	-	-
14.3. Transport hazard class(es)		-	-
Label			
14.4. Packing group		-	-

SECTION 15: Regulatory information

15.2. Chemical safety assessment

For this preparation a chemical safety assessment has not been carried out.

SECTION 16: Other information

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

Classification (Regulation (EC) No. 1272/2008)

Eye Irrit. 2	H319	Calculation method
Skin Sens. 1	H317	Calculation method
Repr. 1B	H360D	Calculation method
Aquatic Chronic 3	H412	Calculation method

Hazard statements listed in Chapter 2/3

H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.

Trade name: FotoTec SL.E opaque

Substance number: 9725

Version: 1 / GB

Date revised: 27.07.2023

Replaces Version: - / GB

Print date: 27.07.2023

H360D	May damage the unborn child.
H361f	Suspected of damaging fertility.
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.

CLP categories listed in Chapter 2/3

Aquatic Chronic 2	Hazardous to the aquatic environment, chronic, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic, Category 3
Aquatic Chronic 4	Hazardous to the aquatic environment, chronic, Category 4
Eye Irrit. 2	Eye irritation, Category 2
Repr. 1B	Reproductive toxicity, Category 1B
Repr. 2	Reproductive toxicity, Category 2
Skin Sens. 1	Skin sensitization, Category 1
Skin Sens. 1B	Skin sensitization, Category 1B

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.