

Trade name: FotoTec DLP.A brillant transparent

Substance number: 9860

Version: 2 / GB

Date revised: 15.05.2024

Replaces Version: 1 / GB

Print date: 15.05.2024

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

1.1. Product identifier

FotoTec DLP.A brillant transparent

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

DE-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 sicherheitsdatenblatt@dreve.com

for this SDS

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)

Skin Irrit. 2 H315

Eye Irrit. 2 H319

Skin Sens. 1 H317

Aquatic Chronic 2 H411

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

Warning



Trade name: FotoTec DLP.A brillant transparent

Substance number: 9860

Version: 2 / GB

Date revised: 15.05.2024

Replaces Version: 1 / GB

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Hazard statements

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H317	May cause an allergic skin reaction.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264.1	Wash hands thoroughly after handling.
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.
P501.1	Dispose of contents/container to industrial incineration plant.

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

contains ***	(5-ethyl-1,3-dioxan-5-yl)methyl acrylate; Hydroxylpropyl methacrylate; 7,7,9(7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahehexadecane-1,16-diylbismethacrylate; 1,1,1- Trimethylol propane triacrylate
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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 *******(5-ethyl-1,3-dioxan-5-yl)methyl acrylate**

CAS No.	66492-51-1
EINECS no.	266-380-7
Registration no.	01-2119976303-36
Concentration	>= 10 < 25 %
Classification (Regulation (EC) No. 1272/2008)	Skin Irrit. 2 H315 Skin Sens. 1 H317 Aquatic Chronic 2 H411

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

EINECS no.	933-881-3
Concentration	>= 10 < 25 %



Trade name: FotoTec DLP.A brillant transparent

Substance number: 9860

Version: 2 / GB

Date revised: 15.05.2024

Replaces Version: 1 / GB

Print date: 15.05.2024

Classification (Regulation (EC) No. 1272/2008)
 Eye Irrit. 2 H319

Hydroxypropyl methacrylate

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

ATE oral 2.000 mg/kg

Acrylic Resin

Concentration \geq 1 < 10 %
 Classification (Regulation (EC) No. 1272/2008)
 Skin Irrit. 2 H315
 Eye Irrit. 2 H319

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

CAS No. 75980-60-8
 EINECS no. 278-355-8
 Registration no. 01-2119972295-29
 Concentration \geq 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).

1,1,1- Trimethylol propane triacrylate

CAS No. 15625-89-5
 EINECS no. 239-701-3
 Registration no. 01-2119489896-11
 Concentration \geq 0,1 < 0,25 %
 Classification (Regulation (EC) No. 1272/2008)
 Skin Irrit. 2 H315
 Eye Irrit. 2 H319
 Skin Sens. 1 H317
 Carc. 2 H351
 Aquatic Acute 1 H400
 Aquatic Chronic 1 H410

Concentration limits (Regulation (EC) No. 1272/2008)

Aquatic Acute 1 H400 M = 1
 Aquatic Chronic H410 M = 1
 1

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



Trade name: FotoTec DLP.A brillant transparent

Substance number: 9860

Version: 2 / GB

Date revised: 15.05.2024

Replaces Version: 1 / GB

Print date: 15.05.2024

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

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



Trade name: FotoTec DLP.A brillant transparent

Substance number: 9860

Version: 2 / GB

Date revised: 15.05.2024

Replaces Version: 1 / GB

Print date: 15.05.2024

vapours/dust/aerosol. Avoid contact with skin, eyes and clothing. Use personal protective clothing. Refer to protective measures listed in Sections 7 and 8.

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



Trade name: FotoTec DLP.A brillant transparent

Substance number: 9860

Version: 2 / GB

Date revised: 15.05.2024

Replaces Version: 1 / GB

Print date: 15.05.2024

Route of exposure	dermal	
Mode of action	Systemic effects	
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/m ³
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

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	Hydroxypropyl methacrylate 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
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-diazaheptadecane-1,16-diylbismethacrylate

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	



Trade name: FotoTec DLP.A brillant transparent

Substance number: 9860

Version: 2 / GB

Date revised: 15.05.2024

Replaces Version: 1 / GB

Print date: 15.05.2024

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

1,1,1- Trimethylol propane triacrylate

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	17,1	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	404	mg/kg/d

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	



Trade name: FotoTec DLP.A brillant transparent

Substance number: 9860

Version: 2 / GB

Date revised: 15.05.2024

Replaces Version: 1 / GB

Print date: 15.05.2024

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

Hydroxypropyl methacrylate

Reference substance	Hydroxypropyl methacrylate	
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-dioxa-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



Trade name: FotoTec DLP.A brillant transparent

Substance number: 9860

Version: 2 / GB

Date revised: 15.05.2024

Replaces Version: 1 / GB

Print date: 15.05.2024

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

1,1,1- Trimethylol propane triacrylate

Type of value	PNEC		
Type	Freshwater		
Concentration	0,87		µg/l
Type of value	PNEC		
Type	Saltwater		
Concentration	0,087		µg/l
Type of value	PNEC		
Type	Sewage treatment plant (STP)		
Concentration	6,25		mg/l
Type of value	PNEC		
Type	Freshwater sediment		
Concentration	0,017		mg/kg
Type of value	PNEC		
Type	Marine sediment		
Concentration	0,002		mg/kg
Type of value	PNEC		
Type	Soil		
Concentration	0,003		mg/kg
Type of value	PNEC		
Type	Secondary poisoning		
Concentration	10		mg/kg

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



Trade name: FotoTec DLP.A brillant transparent

Substance number: 9860

Version: 2 / GB

Date revised: 15.05.2024

Replaces Version: 1 / GB

Print date: 15.05.2024

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	clear, transparent		
Odour	characteristic		
Melting point			
Remarks	not determined		
Freezing point			
Remarks	not determined		
Boiling point or initial boiling point and boiling range			
Value	209		°C
Flammability			
evaluation	not determined		
Upper and lower explosive limits			
Remarks	not determined		
Flash point			
Value	> 100		°C
Method	closed cup		
Ignition temperature			
Remarks	not determined		
Decomposition temperature			
Remarks	not determined		
pH value			
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 density			
Value	1,11		g/cm ³
Temperature	20	°C	



Trade name: FotoTec DLP.A brillant transparent

Substance number: 9860

Version: 2 / GB

Date revised: 15.05.2024

Replaces Version: 1 / GB

Print date: 15.05.2024

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

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	



Trade name: FotoTec DLP.A brillant transparent

Substance number: 9860

Version: 2 / GB

Date revised: 15.05.2024

Replaces Version: 1 / GB

Print date: 15.05.2024

(5-ethyl-1,3-dioxan-5-yl)methyl acrylate

Species	rat (female)	
LD50	> 2000	mg/kg
Method	OECD 423	

Hydroxypropyl methacrylate

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

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

Species	rat	
LD50	> 5000	mg/kg
Method	OECD 401	

Acrylic Resin

LD50	> 2000	mg/kg
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Aliphatic urethane methacrylate

Species	rat	
LD50	> 2000	mg/kg

1,1,1- Trimethylol propane triacrylate

Species	rat	
LD50	> 5000	mg/kg

Acute dermal toxicity

Remarks	Based on available data, the classification criteria are not met.
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Acute dermal toxicity (Components)**Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide**

Species	rat	
LD50	> 2000	mg/kg
Method	OECD 402	

(5-ethyl-1,3-dioxan-5-yl)methyl acrylate

Species	rat	
LD0	> 2000	mg/kg
Method	OECD 402	

Hydroxypropyl methacrylate

Species	rabbit	
LD50	> 5000	mg/kg

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

Species	rat	
LD50	> 2000	mg/kg
Method	OECD 402	

Acrylic Resin

LD50	> 2000	mg/kg
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Aliphatic urethane methacrylate

Species	rabbit	
LD50	> 2000	mg/kg

1,1,1- Trimethylol propane triacrylate

Species	rabbit	
LD50	5170	mg/kg

Acute inhalational toxicity

Remarks	Based on available data, the classification criteria are not met.
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Acute inhalative toxicity (Components)**Acrylic Resin**

LC50	> 5	mg/l
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Trade name: FotoTec DLP.A brillant transparent

Substance number: 9860

Version: 2 / GB

Date revised: 15.05.2024

Replaces Version: 1 / GB

Print date: 15.05.2024

Duration of exposure 4 h
Administration/Form Dust/Mist

Aliphatic urethane methacrylate

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

1,1,1- Trimethylol propane triacrylate

Species rat
LC50 > 0,55 mg/l
Duration of exposure 6 h
Administration/Form Dust/Mist

Skin corrosion/irritation

evaluation irritant
Remarks The classification criteria are met.

Skin corrosion/irritation (Components)**(5-ethyl-1,3-dioxan-5-yl)methyl acrylate**

Species rabbit
evaluation irritant
Method OECD 404

Acrylic Resin

evaluation irritant

Aliphatic urethane methacrylate

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

1,1,1- Trimethylol propane triacrylate

Species rabbit
evaluation slightly irritant

Serious eye damage/irritation

evaluation irritant
Remarks The classification criteria are met.

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

Species rabbit
evaluation slightly irritant

Acrylic Resin

evaluation irritant

Aliphatic urethane methacrylate

Species rabbit
evaluation irritant

1,1,1- Trimethylol propane triacrylate

Species rabbit
evaluation Moderately irritating

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.

(5-ethyl-1,3-dioxan-5-yl)methyl acrylate

Route of exposure dermal
Species mouse



Trade name: FotoTec DLP.A brillant transparent

Substance number: 9860

Version: 2 / GB

Date revised: 15.05.2024

Replaces Version: 1 / GB

Print date: 15.05.2024

evaluation	sensitizing
Method	OECD 429

Hydroxylpropyl methacrylate

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

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

Aliphatic urethane methacrylate

Remarks	Based on available data, the classification criteria are not met.
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1,1,1- Trimethylol propane triacrylate

Route of exposure	dermal
Species	guinea pig
evaluation	sensitizing

Subacute, subchronic, chronic toxicity

Remarks	not determined
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Mutagenicity

Remarks	Based on available data, the classification criteria are not met.
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Mutagenicity (Components)**Aliphatic urethane methacrylate**

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

Remarks	Based on available data, the classification criteria are not met.
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Reproduction toxicity (Components)**Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide**

evaluation	Suspected of damaging fertility.
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Aliphatic urethane methacrylate

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

Remarks	Based on available data, the classification criteria are not met.
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Carcinogenicity (Components)**Aliphatic urethane methacrylate**

evaluation	Based on available data, the classification criteria are not met.
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1,1,1- Trimethylol propane triacrylate

evaluation	Suspected of causing cancer.
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Specific Target Organ Toxicity (STOT)**Single exposure**

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

Remarks	Based on available data, the classification criteria are not met.
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Specific Target Organ Toxicity (STOT) (Components)**Aliphatic urethane methacrylate**

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

Remarks	Based on available data, the classification criteria are not met.
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Trade name: FotoTec DLP.A brillant transparent

Substance number: 9860

Version: 2 / GB

Date revised: 15.05.2024

Replaces Version: 1 / GB

Print date: 15.05.2024

11.2 Information on other hazards

Endocrine disrupting properties with respect to humans

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	

(5-ethyl-1,3-dioxan-5-yl)methyl acrylate

Species	rainbow trout (<i>Oncorhynchus mykiss</i>)	
LC50	4	mg/l
Duration of exposure	96	h
Method	OECD 203	

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	

1,1,1- Trimethylol propane triacrylate

Species	zebra fish (<i>Brachydanio rerio</i>)	
LC50	0,87	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	

(5-ethyl-1,3-dioxan-5-yl)methyl acrylate

Species	Daphnia magna	
LC50	20	mg/l



Trade name: FotoTec DLP.A brillant transparent

Substance number: 9860

Version: 2 / GB

Date revised: 15.05.2024

Replaces Version: 1 / GB

Print date: 15.05.2024

Duration of exposure 48 h
Method OECD 202

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-dioxa-5,12-diazahexadecane-1,16-diylbismethacrylate

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

1,1,1- Trimethylol propane triacrylate

EC50 19,9 mg/l
Method Regulation (EC) No. 440/2008, Annex, C.2

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

(5-ethyl-1,3-dioxan-5-yl)methyl acrylate

Species Desmodesmus subspicatus
EC50 34 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-dioxa-5,12-diazahexadecane-1,16-diylbismethacrylate

Species Scenedesmus subspicatus
EC50 > 0,68 mg/l
Duration of exposure 72 h
Method OECD 201

1,1,1- Trimethylol propane triacrylate

Species Scenedesmus subspicatus
EC50 4,86 mg/l
Duration of exposure 96 h
Method Regulation (EC) No. 440/2008, Annex, C.3

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

(5-ethyl-1,3-dioxan-5-yl)methyl acrylate



Trade name: FotoTec DLP.A brillant transparent

Substance number: 9860

Version: 2 / GB

Date revised: 15.05.2024

Replaces Version: 1 / GB

Print date: 15.05.2024

Species	activated sludge	
EC50	> 1000	mg/l
Method	OECD 209	

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

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

1,1,1- Trimethylol propane triacrylate

Species	activated sludge	
EC20	625	mg/l
Duration of exposure	30	min

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			

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

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

(5-ethyl-1,3-dioxan-5-yl)methyl acrylate

Value	28	%
Duration of test	28	d
evaluation	Moderately/partially biodegradable	
Method	OECD 301 B	

1,1,1- Trimethylol propane triacrylate

Value	82	to	90	%
Duration of test	28	d		
evaluation	Readily biodegradable (according to OECD criteria)			
Method	OECD 301 B			

Ready degradability (Components)**Hydroxypropyl methacrylate**

Value	81	%
Duration of test	28	Days

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

Hydroxypropyl methacrylate

log Pow	0,97
Temperature	20 °C



Trade name: FotoTec DLP.A brillant transparent

Substance number: 9860

Version: 2 / GB

Date revised: 15.05.2024

Replaces Version: 1 / GB

Print date: 15.05.2024

7,7,9(7,9,9)-trimethyl-4,13-dioxo-3,14-dioxo-5,12-diazahexadecane-1,16-diylbismethacrylatelog Pow 3,39
Temperature 20 °C**1,1,1- Trimethylol propane triacrylate**log Pow 4,35
Temperature 20 °C
Source ECHA**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 assessmentThe 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.

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 ***

Trade name: FotoTec DLP.A brillant transparent




Substance number: 9860

Version: 2 / GB

Date revised: 15.05.2024

Replaces Version: 1 / GB

Print date: 15.05.2024

	Land transport ADR/RID ***	Marine transport IMDG/GGVSee ***	Air transport ICAO/IATA ***
14.1. UN number or ID number	3082	3082	3082
14.2. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ((5-ethyl-1,3-dioxan-5-yl)methyl acrylate, 7,7,9(7,9,9)-trimethyl-4,13-dioxo-3,14-dioxo-5,12-diazahexadecane-1,16-diylbismethacrylate)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ((5-ethyl-1,3-dioxan-5-yl)methyl acrylate, 7,7,9(7,9,9)-trimethyl-4,13-dioxo-3,14-dioxo-5,12-diazahexadecane-1,16-diylbismethacrylate)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ((5-ethyl-1,3-dioxan-5-yl)methyl acrylate, 7,7,9(7,9,9)-trimethyl-4,13-dioxo-3,14-dioxo-5,12-diazahexadecane-1,16-diylbismethacrylate)
14.3. Transport hazard class(es)	9	9	9
Label			
14.4. Packing group	III	III	III
Remarks	The product is not subject to any other provisions of ADR provided packaging of not more than 5 l / 5 kg	The product can be transported in accordance with IMDG Code paragraph 2.10.2.7, provided packaging not more than 5 l / 5 kg.	The product is not subject to any other provisions of IATA provided packaging of not more than 5 l / 5 kg (A197)
Limited Quantity	5 l	5 l	
Transport category	3		
14.5. Environmental hazards	-		
Tunnel restriction code	-		

SECTION 15: Regulatory information

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

Other information

All components are contained in the TSCA inventory or exempted.

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]:



Trade name: FotoTec DLP.A brillant transparent

Substance number: 9860

Version: 2 / GB

Date revised: 15.05.2024

Replaces Version: 1 / GB

Print date: 15.05.2024

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

Skin Irrit. 2	H315	Calculation method
Eye Irrit. 2	H319	Calculation method
Skin Sens. 1	H317	Calculation method
Aquatic Chronic 2	H411	Calculation method

Hazard statements listed in Chapter 2/3

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H351	Suspected of causing cancer.
H361f	Suspected of damaging fertility.
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.

CLP categories listed in Chapter 2/3

Aquatic Acute 1	Hazardous to the aquatic environment, acute, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic, Category 2
Carc. 2	Carcinogenicity, Category 2
Eye Irrit. 2	Eye irritation, Category 2
Repr. 2	Reproductive toxicity, Category 2
Skin Irrit. 2	Skin irritation, 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.