

Trade name: FotoTec SL.E transparent

Substance number: S0025

Version: 2 / GB

Date revised: 22.07.2024

Replaces Version: 1 / GB

Print date: 22.07.2024

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

### 1.1. Product identifier

FotoTec SL.E 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 &amp; 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)

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



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**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; Hydroxypropyl methacrylate; 7,7,9(7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diylbismethacrylate
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**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 \*\*\*****7,7,9(7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-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 %
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



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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	%
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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	%
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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).

**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

**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.

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### 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, CO<sub>2</sub>, 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.

### 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.



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## 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	
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 <sup>3</sup>

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



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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

**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 <sup>3</sup>

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 <sup>3</sup>

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 <sup>3</sup>

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



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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 <sup>3</sup>

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-dioxo-5,12-diazahexadecane-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 <sup>3</sup>

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 <sup>3</sup>

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

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

Type of value	PNEC	
Type	Saltwater	
Concentration	0,00014	mg/l



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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	
Type of value	PNEC	
Type	Freshwater	
Concentration	0,904	mg/l
Type of value	Hydroxypropyl methacrylate	
Type	PNEC	
Type	Freshwater sediment	
Concentration	6,28	mg/kg
Type of value	Hydroxypropyl methacrylate	
Type	PNEC	
Type	Soil	





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Concentration	0,727	mg/kg
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Type of value	Hydroxypropyl methacrylate	
Type	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

**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**



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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**

<b>Physical state</b>	liquid	
<b>Colour</b>	Various, depending on coloration	
<b>Odour</b>	characteristic	
<b>Melting point</b>		
Remarks	not determined	
<b>Freezing point</b>		
Remarks	not determined	
<b>Boiling point or initial boiling point and boiling range</b>		
Value	> 100	°C
<b>Flammability</b>		
evaluation	not determined	
<b>Upper and lower explosive limits</b>		
Remarks	not determined	
<b>Flash point</b>		
Value	91	°C
Method	closed cup	
<b>Auto-ignition temperature</b>		
Remarks	not determined	
<b>Decomposition temperature</b>		
Remarks	not determined	
<b>pH value</b>		
Remarks	not determined	
<b>Viscosity</b>		
Remarks	not determined	
<b>Solubility(ies)</b>		
Remarks	not determined	
<b>Partition coefficient n-octanol/water (log value)</b>		
Remarks	not determined	
<b>Vapour pressure</b>		
Remarks	not determined	
<b>Density and/or relative density</b>		



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Value	1,12		g/cm <sup>3</sup>
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

**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



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LD50	>	5000	mg/kg
Method		OECD 401	

**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-diazahexadecane-1,16-diylbismethacrylate**

Species		rat	
LD50	>	5000	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.
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**Acute dermal toxicity (Components)****Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide**

Species		rat	
LD50	>	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-dioxo-5,12-diazahexadecane-1,16-diylbismethacrylate**

Species		rat	
LD50	>	2000	mg/kg
Method		OECD 402	

**Aliphatic urethane methacrylate**

Species		rabbit	
LD50	>	2000	mg/kg

**Acute inhalational toxicity**

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

Remarks	Based on available data, the classification criteria are not met.
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**Skin corrosion/irritation**

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

Remarks	Based on available data, the classification criteria are not met.
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**Serious eye damage/irritation**

evaluation	irritant
Remarks	The classification criteria are met.

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

Species	rabbit
evaluation	slightly irritant



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**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.

**7,7,9(7,9,9)-trimethyl-4,13-dioxo-3,14-dioxo-5,12-diazaheptadecane-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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**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**

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.
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**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.
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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**



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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**

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

**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		

**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		

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



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Species	Daphnia magna		
EC50	3,53		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-diazahectadecane-1,16-diylbismethacrylate**

Species	Daphnia magna		
EC50	1,2		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		

**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-diazahectadecane-1,16-diylbismethacrylate**

Species	Scenedesmus subspicatus		
EC50	> 0,68		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		

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

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

**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 evaluation		28	d		
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 evaluation		28	d	
not readily degradable				

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

**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

**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





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**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.

**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
<b>14.1. UN number or ID number</b>	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.
<b>14.2. UN proper shipping name</b>	-	-	-
<b>14.3. Transport hazard class(es)</b>		-	-
Label			
<b>14.4. Packing group</b>		-	-

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**



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**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]:**

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.
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.

**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
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.