

Trade name: FotoTec DLP.flex 90

Substance number: 9702

Version: 2 / GB

Date revised: 27.08.2024

Replaces Version: 1 / GB

Print date: 27.08.2024

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

### 1.1. Product identifier

FotoTec DLP.flex 90

### 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)

Skin Irrit. 2 H315

Skin Sens. 1A H317

Repr. 2 H361d

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



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**Hazard statements**

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H361d	Suspected of damaging the unborn child.
H411	Toxic to aquatic life with long lasting effects.

**Precautionary statements**

P201	Obtain special instructions before use.
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.
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 ***	(5-ethyl-1,3-dioxan-5-yl)methyl acrylate; 2-phenoxyethyl methacrylate; 2-Hydroxyethyl acrylate; aliphatic urethane triacrylate; 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 \*\*\*****2-phenoxyethyl methacrylate**

CAS No.	10595-06-9
EINECS no.	234-201-1
Registration no.	01-2120752383-55
Concentration	>= 25 < 50 %
Classification (Regulation (EC) No. 1272/2008)	
	Skin Sens. 1A H317
	Aquatic Chronic 2 H411
	Repr. 2 H361d

**(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	>= 25 < 50 %
Classification (Regulation (EC) No. 1272/2008)	
	Skin Irrit. 2 H315
	Skin Sens. 1 H317
	Aquatic Chronic 2 H411

**Isodecylmethacrylate**

CAS No.	29964-84-9
EINECS no.	249-978-2



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Registration no. 01-2119894925-17  
 Concentration  $\geq$  2,5 < 10 %  
 Classification (Regulation (EC) No. 1272/2008)  
 Aquatic Chronic 1 H410  
 Skin Irrit. 2 H315  
 Eye Irrit. 2 H319  
 STOT SE 3 H335

**aliphatic urethane triacrylate**

Concentration  $\geq$  1 < 10 %  
 Classification (Regulation (EC) No. 1272/2008)  
 Skin Sens. 1A H317  
 Aquatic Chronic 4 H413

**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).

**2-Hydroxyethyl acrylate**

CAS No. 818-61-1  
 EINECS no. 212-454-9  
 Registration no. 01-2119459345-34  
 Concentration  $\geq$  0,2 < 1 %  
 Classification (Regulation (EC) No. 1272/2008)  
 Acute Tox. 3 H311  
 Skin Corr. 1B H314  
 Skin Sens. 1 H317  
 Aquatic Acute 1 H400

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

Skin Sens. 1 H317  $\geq$  0,2 %

ATE dermal 1.000 mg/kg

## Additional remarks:

CLP Regulation (EC) No 1272/2008, Annex VI, Note D

**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

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Aquatic Chronic 1 H410 M = 1

## 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.

### 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.

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**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.

**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

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## 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

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

##### 2-Hydroxyethyl acrylate

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	2,4	mg/m <sup>3</sup>

Type of value	Derived No Effect Level (DNEL)	
Reference group	General Population	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	1,2	mg/m <sup>3</sup>

##### 1,1,1- Trimethylol propane triacrylate

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



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Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	17,1	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	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	
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

**2-Hydroxyethyl acrylate**

Type of value	PNEC	
Type	Freshwater	
Concentration	0,017	mg/l

Type of value	PNEC	
Type	Marine	
Concentration	0,002	mg/l

Type of value	PNEC	
Type	Water (intermittent release)	
Concentration	0,0361	mg/l

Type of value	PNEC	
Type	Freshwater sediment	
Concentration	0,064	mg/kg

Type of value	PNEC	
Type	Marine sediment	
Concentration	0,006	mg/kg

Type of value	PNEC	
Type	Soil	
Concentration	0,003	mg/kg

Type of value	PNEC	
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Type	Sewage treatment plant (STP)	
Concentration	10	mg/l
<b>1,1,1- Trimethylol propane triacrylate</b>		
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 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.





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## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

<b>Physical state</b>	liquid		
<b>Colour</b>	clear, transparent		
<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	149		°C
<b>Flammability</b>			
evaluation	not determined		
<b>Upper and lower explosive limits</b>			
Remarks	not determined		
<b>Flash point</b>			
Value	100		°C
Method	closed cup		
<b>Auto-ignition temperature</b>			
Value	295		°C
<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>			
Value	1,07		g/cm <sup>3</sup>
Temperature	20	°C	
<b>Relative vapour density</b>			
Remarks	not determined		
<b>9.2. Other information</b>			
<b>Odour threshold</b>			
Remarks	not determined		
<b>Evaporation rate (ether = 1) :</b>			
Remarks	not determined		



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**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**

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

**Acute oral toxicity (Components)****Isodecylmethacrylate**

Species	rat (male)	
LD50	> 5000	mg/kg

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

Species	rat	
LD50	> 5000	mg/kg
Method	OECD 401	

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

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

**2-phenoxyethyl methacrylate**

Species	rat	
LD50	> 5000	mg/kg

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Method OECD 401  
Remarks Test conducted with a similar formulation.

**2-Hydroxyethyl acrylate**

Species rat  
LD50 540 mg/kg

**aliphatic urethane triacrylate**

Species rat  
LD50 > 5000 mg/kg

**1,1,1- Trimethylol propane triacrylate**

Species rat  
LD50 > 5000 mg/kg

**Acute dermal toxicity**

ATE > 10.000 mg/kg  
Method calculated value according to GHS (e.g see UN GHS)

**Acute dermal toxicity (Components)****Isodecylmethacrylate**

Species rabbit  
LD50 > 3000 mg/kg

**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

**2-phenoxyethyl methacrylate**

Species rat  
LD50 > 2000 mg/kg  
Method 92/69/EEC, B.3  
Remarks Test conducted with a similar formulation.

**2-Hydroxyethyl acrylate**

Species rat  
LD50 > 1000 mg/kg  
Method OECD 402

**aliphatic urethane triacrylate**

Species rat  
LD50 > 2000 mg/kg  
Method OECD 402

**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.

**Acute inhalative toxicity (Components)****Isodecylmethacrylate**

Species rat  
LCLo > 0,9 mg/l  
Duration of exposure 1 h

**1,1,1- Trimethylol propane triacrylate**

Species rat



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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)****Isodecylmethacrylate**

Species	rabbit
evaluation	slightly irritant

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

Species	rabbit
evaluation	irritant
Method	OECD 404

**2-phenoxyethyl methacrylate**

Species	rabbit
evaluation	slight irritant effect - does not require labelling
Remarks	Test conducted with a similar formulation.

**2-Hydroxyethyl acrylate**

Species	rabbit
evaluation	corrosive

**1,1,1- Trimethylol propane triacrylate**

Species	rabbit
evaluation	slightly irritant

**Serious eye damage/irritation**

Remarks	Based on available data, the classification criteria are not met.
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**Serious eye damage/irritation (Components)****2-phenoxyethyl methacrylate**

Species	rabbit
evaluation	slight irritant effect - does not require labelling
Remarks	Test conducted with a similar formulation.

**2-Hydroxyethyl acrylate**

Species	rabbit
evaluation	corrosive

**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
evaluation	sensitizing
Method	OECD 429

**2-phenoxyethyl methacrylate**



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Route of exposure	dermal
Species evaluation	guinea pig sensitizing
Method	OECD 406
Remarks	Test conducted with a similar formulation.

**2-Hydroxyethyl acrylate**

Route of exposure	dermal
Species evaluation	mouse sensitizing

**aliphatic urethane triacrylate**

Route of exposure	dermal
Species evaluation	guinea pig sensitizing

**1,1,1- Trimethylol propane triacrylate**

Route of exposure	dermal
Species evaluation	guinea pig 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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**Reproductive toxicity**

evaluation	Suspected of damaging 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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**Carcinogenicity**

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

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## SECTION 12: Ecological information

### 12.1. Toxicity

#### General information

not determined

#### Fish toxicity (Components)

##### Isodecylmethacrylate

Species	golden orfe ( <i>Leuciscus idus</i> )	
LC50	470	mg/l
Duration of exposure	48	h
Method	DIN 38412 / Part 15	

##### 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	

##### 2-phenoxyethyl methacrylate

Species	golden orfe ( <i>Leuciscus idus</i> )	
EC50	appr. 10	mg/l
Duration of exposure	72	h
Method	OECD 203	

##### 2-Hydroxyethyl acrylate

Species	Fathead minnow ( <i>Pimephales promelas</i> )	
LC50	3,61	mg/l
Duration of exposure	96	h
Remarks	Test conducted with a similar formulation.	

##### aliphatic urethane triacrylate

Species	zebra fish ( <i>Brachydanio rerio</i> )	
EC50	> 100	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)

##### Isodecylmethacrylate

Species	Daphnia magna	
NOEC	54,2	µg/l
Duration of exposure	21	d
Method	OECD 211	

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

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



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Method	OECD 202		
<b>(5-ethyl-1,3-dioxan-5-yl)methyl acrylate</b>			
Species	Daphnia magna		
LC50	20		mg/l
Duration of exposure	48	h	
Method	OECD 202		
<b>2-phenoxyethyl methacrylate</b>			
Species	Daphnia magna		
EC50	1,21		mg/l
Duration of exposure	48	h	
Method	OECD 202		
Remarks	Test conducted with a similar formulation.		
<b>2-phenoxyethyl methacrylate</b>			
Species	Daphnia magna		
NOEC	1		mg/l
Duration of exposure	21	d	
Remarks	Test conducted with a similar formulation.		
<b>2-Hydroxyethyl acrylate</b>			
Species	Daphnia magna		
EC50	9,3		mg/l
Duration of exposure	48	h	
Method	OECD 202		
<b>2-Hydroxyethyl acrylate</b>			
Species	Daphnia magna		
NOEC	0,86		mg/l
Duration of exposure	21	d	
Method	OECD 211		
<b>aliphatic urethane triacrylate</b>			
Species	Daphnia magna		
EC50	> 100		mg/l
Duration of exposure	48	h	
Method	OECD 202		
<b>1,1,1- Trimethylol propane triacrylate</b>			
EC50	19,9		mg/l
Method	Regulation (EC) No. 440/2008, Annex, C.2		
<b>Algae toxicity (Components)</b>			
<b>Isodecylmethacrylate</b>			
Species	Scenedesmus subspicatus		
NOEC	12,0		µg/l
Duration of exposure	72	h	
Method	OECD 201		
<b>Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide</b>			
Species	Pseudokirchneriella subcapitata		
EC50	> 2,01		mg/l
Duration of exposure	72	h	
Method	OECD 201		
<b>(5-ethyl-1,3-dioxan-5-yl)methyl acrylate</b>			
Species	Desmodesmus subspicatus		
EC50	34		mg/l
Duration of exposure	72	h	
Method	OECD 201		
<b>2-phenoxyethyl methacrylate</b>			
Species	Scenedesmus subspicatus		



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EC50	4,4		mg/l
Duration of exposure	72	h	
Method	ISO 8692		

**2-Hydroxyethyl acrylate**

Species	Pseudokirchneriella subcapitata		
EC50	6		mg/l
Duration of exposure	72	h	
Method	OECD 201		

**aliphatic urethane triacrylate**

Species	Pseudokirchneriella subcapitata		
EC50	> 100		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)****Isodecylmethacrylate**

EC10	500		mg/l
Method	OECD 209		

**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**

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

**2-phenoxyethyl methacrylate**

Species	activated sludge		
EC50	177		mg/l
Duration of exposure	3	h	

**2-Hydroxyethyl acrylate**

Species	activated sludge		
EC10	> 100		mg/l
Duration of exposure	72	h	

**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)****Isodecylmethacrylate**

Value	62		%
Duration of test evaluation	28	d	
	not readily degradable		

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





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

**2-phenoxyethyl methacrylate**

evaluation	biodegradable
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**aliphatic urethane triacrylate**

evaluation	not readily degradable
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**(5-ethyl-1,3-dioxan-5-yl)methyl acrylate**

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

**2-Hydroxyethyl acrylate**

Value	80			%
Duration of test evaluation	28	d		
Readily biodegradable (according to OECD criteria)				
Method	OECD 301B / ISO 9439 / EEC 84/449 C5			

**1,1,1- Trimethylol propane triacrylate**

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

**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

**2-phenoxyethyl methacrylate**

log Pow	3,14
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**2-Hydroxyethyl acrylate**

log Pow	-0,17
Temperature	25 °C

**aliphatic urethane triacrylate**

log Pow	4,23
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)		

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## 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.

## 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 \*\*\*

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	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. (Isodecylmethacrylate, 2-phenoxyethyl methacrylate)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Isodecylmethacrylate, 2-phenoxyethyl methacrylate)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Isodecylmethacrylate, 2-phenoxyethyl methacrylate)
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]:

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

Skin Irrit. 2

H315

Calculation method



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Skin Sens. 1A	H317	Calculation method
Repr. 2	H361d	Calculation method
Aquatic Chronic 2	H411	Calculation method

**Hazard statements listed in Chapter 2/3**

H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H361d	Suspected of damaging the unborn child.
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.
H413	May cause long lasting harmful effects to aquatic life.

**CLP categories listed in Chapter 2/3**

Acute Tox. 3	Acute toxicity, Category 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
Aquatic Chronic 4	Hazardous to the aquatic environment, chronic, Category 4
Carc. 2	Carcinogenicity, Category 2
Eye Irrit. 2	Eye irritation, Category 2
Repr. 2	Reproductive toxicity, Category 2
Skin Corr. 1B	Skin corrosion, Category 1B
Skin Irrit. 2	Skin irritation, Category 2
Skin Sens. 1	Skin sensitization, Category 1
Skin Sens. 1A	Skin sensitization, Category 1A
STOT SE 3	Specific target organ toxicity - single exposure, Category 3

**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.