

Trade name: FotoTec DLP.A opaque

Substance number: S0014

Version: 2 / GB

Date revised: 15.01.2024

Replaces Version: 1 / GB

Print date: 15.01.2024

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

1.1. Product identifier

FotoTec DLP.A opaque

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

Use of the substance/preparation

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

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

Dreve Otoplastik GmbH

Max-Planck-Straße 31

59423 Unna

Telephone no.

+49 2303 8807-0

Fax no.

+49 2303 8807-29

Information provided

Department Research & Development: Fax: +49 2303 8807-562

by / telephone

E-mail address of

sicherheitsdatenblatt@dreve.com

person responsible

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

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

Warning



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Hazard statements

H319 Causes serious eye irritation.
 H317 May cause an allergic skin reaction.
 H412 Harmful 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 2-hydroxyethyl methacrylate; Hydroxylpropyl methacrylate; 7,7,9(7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahectadecane-1,16-diylbismethacrylate; Propylidynetrimethanol, ethoxylated, esters with acrylic acid

2.3. Other hazards

No special hazards have to be mentioned.

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

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

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

2-hydroxyethyl methacrylate

CAS No. 868-77-9
 EINECS no. 212-782-2
 Registration no. 01-2119490169-29
 Concentration \geq 1 < 6,3 %
 Classification (Regulation (EC) No. 1272/2008)
 Skin Irrit. 2 H315
 Eye Irrit. 2 H319
 Skin Sens. 1 H317

Additional remarks:

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

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

CAS No. 72869-86-4
 EINECS no. 276-957-5



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Registration no. 01-2120751202-68
 Concentration \geq 2,5 < 10 %
 Classification (Regulation (EC) No. 1272/2008)
 Skin Sens. 1B H317
 Aquatic Chronic 2 H411

Aliphatic urethane methacrylate

EINECS no. 933-881-3
 Concentration \geq 1 < 10 %
 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 < 3,6 %
 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).

Propylidynetrimethanol, ethoxylated, esters with acrylic acid

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

SECTION 4: First aid measures



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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, 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.

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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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Other information

Contains no substances with occupational exposure limit values.



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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 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

Bisphenol A, ethoxylated, dimethacrylate

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	3,52	mg/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	2	mg/kg

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

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	dermal	



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Mode of action	Systemic effects	
Concentration	1	mg/kg

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	oral	

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

2-hydroxyethyl 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	4,9	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	1,39	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	1,45	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	0,83	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
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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
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Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Route of exposure	inhalative	
Concentration	8,8	mg/m ³

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

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

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

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

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

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

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

Propylidyntrimethanol, ethoxylated, esters with acrylic acid

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

Type of value	Derived No Effect Level (DNEL)	
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Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	10,5	mg/kg

Predicted No Effect Concentration (PNEC)

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

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

2-hydroxyethyl methacrylate

Type of value	PNEC	
Type	Freshwater	
Concentration	0,482	mg/l
Type of value	PNEC	
Type	Soil	
Concentration	0,476	mg/kg
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	10	mg/l
Type of value	PNEC	
Type	Freshwater sediment	
Concentration	3,79	mg/kg
Type of value	PNEC	
Type	Saltwater	
Concentration	0,482	mg/l
Type of value	PNEC	
Type	Marine sediment	
Concentration	3,79	mg/kg
Type of value	PNEC	
Type	Man via the environment	
Concentration	0,83	mg/kg/d
Type of value	PNEC	
Type	Water (intermittent release)	
Concentration	1	mg/l



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Hydroxypropyl methacrylate

Reference substance	Hydroxypropyl methacrylate	
Type of value	PNEC	
Type	Freshwater	
Concentration	0,904	mg/l
Type of value	Hydroxypropyl methacrylate	
Type of value	PNEC	
Type	Freshwater sediment	
Concentration	6,28	mg/kg
Type of value	Hydroxypropyl methacrylate	
Type of value	PNEC	
Type	Soil	
Concentration	0,727	mg/kg
Type of value	Hydroxypropyl methacrylate	
Type of value	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-diazaheptadecane-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	

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Type	Water (intermittent release)	
Concentration	0,1	mg/l

Propylidyntrimethanol, ethoxylated, esters with acrylic acid**8.2. Exposure controls****General protective and hygiene measures**

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

Respiratory protection

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

Hand protection

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

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

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

Hand protection must comply with EN 374.

Appropriate Material nitrile

Eye protection

Safety glasses

Body protection

Clothing as usual in the chemical industry.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	liquid	
Colour	Various, depending on coloration	
Odour	characteristic	
Melting point		
Remarks	not determined	
Freezing point		
Remarks	not determined	
Boiling point or initial boiling point and boiling range		
Value	213	°C
Flammability		
evaluation	not determined	
Upper and lower explosive limits		
Remarks	not determined	
Flash point		
Value	106	°C
Method	closed cup	
Ignition temperature		
Remarks	not determined	



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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	

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



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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		

Bisphenol A, ethoxylated, dimethacrylate

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

2-hydroxyethyl methacrylate

Species	rat		
LD50	>	5564	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		

Propylidynetrimethanol, ethoxylated, esters with acrylic acid

Species	rat		
LD50	>	2000	mg/kg
Method	OECD 401		

Acrylic Resin

LD50	>	2000	mg/kg
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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		

Bisphenol A, ethoxylated, dimethacrylate

Species	rat		
LD50	>	2000	mg/kg
Method	OECD 402		



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Remarks Test conducted with a similar formulation.

2-hydroxyethyl methacrylate

Species hamster
 LD50 > 5000 mg/kg
 Remarks Test conducted with a similar formulation.

Hydroxypropyl methacrylate

Species rabbit
 LD50 > 5000 mg/kg

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

Species rat
 LD50 > 2000 mg/kg
 Method OECD 402

Propylidynetrimethanol, ethoxylated, esters with acrylic acid

Species rabbit
 LD50 > 13200 mg/kg

Acrylic Resin

LD50 > 2000 mg/kg

Aliphatic urethane methacrylate

Species rabbit
 LD50 > 2000 mg/kg

Acute inhalational toxicity

ATE > 20 mg/l
 Administration/Form Dust/Mist
 Method calculated value (Regulation (EC) No. 1272/2008)
 Remarks Based on available data, the classification criteria are not met.

Acute inhalative toxicity (Components)**Acrylic Resin**

LC50 > 5 mg/l
 Duration of exposure 4 h
 Administration/Form Dust/Mist

Aliphatic urethane methacrylate

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

Skin corrosion/irritation

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

Skin corrosion/irritation (Components)**Acrylic Resin**

evaluation irritant

Aliphatic urethane methacrylate

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

Serious eye damage/irritation

evaluation irritant
 Remarks The classification criteria are met.

Serious eye damage/irritation (Components)**2-hydroxyethyl methacrylate**

Species rabbit
 evaluation slightly irritant

Hydroxypropyl methacrylate

Species rabbit
 evaluation slightly irritant

Propylidynetrimethanol, ethoxylated, esters with acrylic acid



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Species	rabbit
evaluation	irritant
Method	OECD 405

Acrylic Resin

evaluation	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.

2-hydroxyethyl methacrylate

Remarks	Possible sensitization potential with human beings.
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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-diazahehexadecane-1,16-diylbismethacrylate

Route of exposure	dermal
Species	mouse
evaluation	sensitizing

Propylidynetrimethanol, ethoxylated, esters with acrylic acid

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

Aliphatic urethane methacrylate

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

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.

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	

Bisphenol A, ethoxylated, dimethacrylate

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

2-hydroxyethyl methacrylate

Species	<i>Oryzias latipes</i>	
LC50	> 100	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



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Method DIN 38412 / Part 15

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

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

Propylidynetrimethanol, ethoxylated, esters with acrylic acid

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

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

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

Bisphenol A, ethoxylated, dimethacrylate

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

2-hydroxyethyl methacrylate

Species Daphnia magna
 EC50 380 mg/l
 Duration of exposure 48 h
 Method OECD 202

2-hydroxyethyl methacrylate

Species Daphnia magna
 NOEC 24,1 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-dioxa-5,12-diazahexadecane-1,16-diylbismethacrylate

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

Propylidynetrimethanol, ethoxylated, esters with acrylic acid

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

Algae toxicity (Components)



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

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

Bisphenol A, ethoxylated, dimethacrylate

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

2-hydroxyethyl methacrylate

Species	Pseudokirchneriella subcapitata		
EC50		345	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		

Propylidynetrimethanol, ethoxylated, esters with acrylic acid

Species	Scenedesmus subspicatus		
EC50		2,2	mg/l
Duration of exposure	72	h	
Method	OECD 201		

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

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

Bisphenol A, ethoxylated, dimethacrylate

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

2-hydroxyethyl methacrylate

Species	Pseudomonas fluorescens		
EC0	>	3000	mg/l
Duration of exposure	16	h	

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

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

Propylidynetrimethanol, ethoxylated, esters with acrylic acid

Species	activated sludge		
EC20		292	mg/l



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Duration of exposure 3 h
Method OECD 209

12.2. Persistence and degradability**General information**

not determined

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

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

Bisphenol A, ethoxylated, dimethacrylate

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

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

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

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

Bisphenol A, ethoxylated, dimethacrylate

log Pow 4,39

2-hydroxyethyl methacrylate

log Pow 0,42
Temperature 25 °C
Method OECD 107

Hydroxypropyl methacrylate

log Pow 0,97
Temperature 20 °C

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

log Pow 3,39
Temperature 20 °C

Propylidynetrimethanol, ethoxylated, esters with acrylic acid

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

Bioconcentration factor (BCF) (Components)**Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide**



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BCF	47	to	55
Concentration	0,1	mg/l	
Duration of exposure	8	Weeks	
Medium	Freshwater		
Species	carp (Cyprinus carpio)		

12.4. Mobility in soil

General information

not determined

12.5. Results of PBT and vPvB assessment

General information

not determined

Results of PBT and vPvB assessment

The product contains no PBT substances

The product contains no vPvB substances.

12.6 Endocrine disrupting properties

Endocrine disrupting properties with respect to the environment

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

12.7. Other adverse effects

General information

not determined

General information / ecology

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

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	The product does not constitute a hazardous substance in land transport.	The product does not constitute a hazardous substance in sea transport.	The product does not constitute a hazardous substance in air transport.
14.2. UN proper shipping name	-	-	-
14.3. Transport hazard class(es)		-	-
Label			
14.4. Packing group		-	-
14.5. Environmental hazards	-	no -	-

SECTION 15: Regulatory information

15.2. Chemical safety assessment

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

SECTION 16: Other information

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

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

Eye Irrit. 2	H319
Skin Sens. 1	H317
Aquatic Chronic 3	H412

Hazard statements listed in Chapter 2/3

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H361f	Suspected of damaging fertility.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

CLP categories listed in Chapter 2/3

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



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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.