

Trade name: Fotoplast S IO clear transparent

Substance number: 71496

Version: 1 / GB

Date revised: 07.07.2023

Replaces Version: - / GB

Print date: 07.07.2023

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

1.1. Product identifier

Fotoplast S IO clear 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

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

Dreve Otoplastik GmbH

Max-Planck-Straße 31

59423 Unna

Telephone no. +49 2303 8807-0

Fax no. +49 2303 8807-29

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

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

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	Tetramethylene dimethacrylate; 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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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	>= 10 < 25 %
Classification (Regulation (EC) No. 1272/2008)	Aquatic Chronic 4 H413

Tetramethylene dimethacrylate

CAS No.	2082-81-7
EINECS no.	218-218-1
Registration no.	01-2119967415-30
Concentration	>= 10 < 25 %
Classification (Regulation (EC) No. 1272/2008)	Skin Sens. 1B H317

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



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Aliphatic urethane methacrylate

Concentration	>=	10	<	25	%
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	>=	10	<	25	%
Classification (Regulation (EC) No. 1272/2008)					
				Eye Irrit. 2	H319
				Skin Sens. 1	H317

ATE	oral	2.000	mg/kg
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Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

CAS No.	75980-60-8				
EINECS no.	278-355-8				
Registration no.	01-2119972295-29				
Concentration	>=	0,1	<	1	%
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, CO₂, powders, water spray/mist, Extinguishing measures to suit surroundings

Non suitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

In case of combustion evolution of dangerous gases possible.

5.3. Advice for firefighters

Special protective equipment for fire-fighting

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

Other information

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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

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 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



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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

Tetramethylene 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	14,5	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	4,2	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	4,3	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	2,5	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	2,5	mg/kg

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	



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Concentration	2	mg/kg
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Type of value	Derived No Effect Level (DNEL)	
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Reference group	Consumer	
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Duration of exposure	Long term	
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Route of exposure	inhalative	
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Mode of action	Systemic effects	
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Concentration	0,87	mg/m ³
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Type of value	Derived No Effect Level (DNEL)	
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Reference group	Consumer	
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Duration of exposure	Long term	
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Route of exposure	dermal	
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Mode of action	Systemic effects	
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Concentration	1	mg/kg
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Type of value	Derived No Effect Level (DNEL)	
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Reference group	Consumer	
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Duration of exposure	Long term	
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Route of exposure	oral	
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Mode of action	Systemic effects	
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Concentration	0,5	mg/kg
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Hydroxypropyl methacrylate

Reference substance	Hydroxypropyl methacrylate	
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Type of value	Derived No Effect Level (DNEL)	
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Reference group	Worker	
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Route of exposure	inhalative	
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Concentration	14,7	mg/m ³
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Type of value	Hydroxypropyl methacrylate Derived No Effect Level (DNEL)	
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Reference group	Worker	
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Route of exposure	dermal	
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Concentration	4,2	mg/kg/d
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Type of value	Derived No Effect Level (DNEL)	
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Reference group	Consumer	
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Route of exposure	dermal	
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Concentration	2,5	mg/kg
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Type of value	Derived No Effect Level (DNEL)	
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Reference group	Consumer	
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Route of exposure	inhalative	
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Concentration	8,8	mg/m ³
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Type of value	Derived No Effect Level (DNEL)	
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Reference group	Consumer	
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Route of exposure	oral	
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Concentration	2,5	mg/kg
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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)	
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Reference group	Worker	
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Duration of exposure	Long term	
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Route of exposure	inhalative	
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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

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

Tetramethylene dimethacrylate

Type of value	PNEC	
Type	Freshwater	
Concentration	0,043	mg/l
Type of value	PNEC	
Type	Saltwater	



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Concentration	0,004	mg/l
Type of value	PNEC	
Type	Water (intermittent release)	
Concentration	0,098	mg/l
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	2	mg/l
Type of value	PNEC	
Type	Freshwater sediment	
Concentration	3,12	mg/kg
Type of value	PNEC	
Type	Marine sediment	
Concentration	0,312	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	0,573	mg/kg

Hydroxypropyl methacrylate

Reference substance	Hydroxypropyl methacrylate	
Type of value	PNEC	
Type	Freshwater	
Concentration	0,904	mg/l
Type of value	Hydroxypropyl methacrylate PNEC	
Type	Freshwater sediment	
Concentration	6,28	mg/kg
Type of value	Hydroxypropyl methacrylate PNEC	
Type	Soil	
Concentration	0,727	mg/kg
Type of value	Hydroxypropyl methacrylate PNEC	
Type	Sewage treatment plant (STP)	
Concentration	10	mg/l
Type of value	PNEC	
Type	Marine	
Concentration	0,904	mg/l
Type of value	PNEC	
Type	Marine sediment	
Concentration	6,28	mg/kg

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

Type of value	PNEC	
Type	Freshwater	
Concentration	0,01	mg/l



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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

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 clear, transparent



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Odour	characteristic	
Melting point		
Remarks	not determined	
Freezing point		
Remarks	not determined	
Boiling point or initial boiling point and boiling range		
Value	209	°C
Flammability		
evaluation	not determined	
Upper and lower explosive limits		
Remarks	not determined	
Flash point		
Value	> 100	°C
Method	closed cup	
Ignition temperature		
Remarks	not determined	
Decomposition temperature		
Remarks	not determined	
pH value		
Remarks	not determined	
Viscosity		
Remarks	not determined	
Solubility(ies)		
Remarks	not determined	
Partition coefficient n-octanol/water (log value)		
Remarks	not determined	
Vapour pressure		
Remarks	not determined	
Density and/or relative density		
Remarks	not determined	
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		



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SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

No hazardous reactions known.

10.3. Possibility of hazardous reactions

No hazardous reactions known.

10.4. Conditions to avoid

Protect from heat and direct sunlight

10.5. Incompatible materials

None known

10.6. Hazardous decomposition products

Irritant gases/vapours

SECTION 11: Toxicological information

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

Acute oral toxicity

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

Acute oral toxicity (Components)

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

Species	rat		
LD50	>	5000	mg/kg
Method	OECD 401		

Tetramethylene dimethacrylate

Species	rat		
LD50		10066	mg/kg
Method	OECD 401		

Bisphenol A, ethoxylated, dimethacrylate

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

Hydroxypropyl methacrylate

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

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

Species	rat		
LD50	>	5000	mg/kg
Method	OECD 401		

Aliphatic urethane methacrylate

Species	rat		
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LD50 > 2000 mg/kg

Acute dermal toxicity

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

Acute dermal toxicity (Components)**Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide**Species rat
LD50 > 2000 mg/kg
Method OECD 402**Bisphenol A, ethoxylated, dimethacrylate**Species rat
LD50 > 2000 mg/kg
Method OECD 402
Remarks Test conducted with a similar formulation.**Hydroxylpropyl methacrylate**Species rabbit
LD50 > 5000 mg/kg**7,7,9(7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazaheptadecane-1,16-diylbismethacrylate**Species rat
LD50 > 2000 mg/kg
Method OECD 402**Aliphatic urethane methacrylate**Species rabbit
LD50 > 2000 mg/kg**Acute inhalational toxicity**

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

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

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

Skin corrosion/irritation

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

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

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

Serious eye damage/irritationevaluation irritant
Remarks The classification criteria are met.**Serious eye damage/irritation (Components)****Hydroxylpropyl methacrylate**Species rabbit
evaluation slightly irritant**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



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Species mouse
 evaluation May cause sensitization by skin contact.

Tetramethylene dimethacrylate

Route of exposure dermal
 Species mouse
 evaluation sensitizing
 Method OECD 429

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-dioxa-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.

Subacute, subchronic, chronic toxicity

Remarks not determined

Mutagenicity

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

Mutagenicity (Components)**Aliphatic urethane methacrylate**

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

Reproductive toxicity

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

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

evaluation Suspected of damaging fertility.

Aliphatic urethane methacrylate

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

Carcinogenicity

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

Carcinogenicity (Components)**Aliphatic urethane methacrylate**

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

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

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

Repeated exposure

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

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

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

Aspiration hazard

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

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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	

Tetramethylene dimethacrylate

Species	golden orfe (<i>Leuciscus idus</i>)	
LC50	32,5	mg/l
Duration of exposure	48	h
Method	DIN 38412 / Part 15	
Remarks	Test conducted with a similar formulation.	

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.	

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

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

Tetramethylene dimethacrylate

Species	Daphnia magna	
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EC10	7,51		mg/l
Duration of exposure	21	d	
Method	OECD 211		

Bisphenol A, ethoxylated, dimethacrylate

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

Hydroxypropyl methacrylate

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

Hydroxypropyl methacrylate

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

7,7,9(7,9,9)-trimethyl-4,13-dioxo-3,14-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		

Tetramethylene dimethacrylate

Species	Scenedesmus subspicatus		
EC50	9,79		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.		

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

Tetramethylene dimethacrylate

Species		activated sludge		
NOEC		20		mg/l
Duration of exposure		28	d	

Bisphenol A, ethoxylated, dimethacrylate

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

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

Species		activated sludge		
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			

Tetramethylene dimethacrylate

Value		84		%
Duration of test evaluation		28	d	
		Readily biodegradable (according to OECD criteria)		

Bisphenol A, ethoxylated, dimethacrylate

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

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)**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



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Tetramethylene dimethacrylate

log Pow	3,1	
Temperature	20	°C

Bisphenol A, ethoxylated, dimethacrylate

log Pow	4,39	
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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

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.



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SECTION 14: Transport information

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

SECTION 15: Regulatory information**15.2. Chemical safety assessment**

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

SECTION 16: Other information**Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:**

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

Eye Irrit. 2	H319	Calculation method
Skin Sens. 1	H317	Calculation method
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.
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 Sens. 1	Skin sensitization, Category 1
Skin Sens. 1B	Skin sensitization, Category 1B



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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.