

Trade name: Fotoplast S hart

Substance number: 71424

Version: 2 / GB

Date revised: 15.05.2024

Replaces Version: 1 / GB

Print date: 15.05.2024

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

### 1.1. Product identifier

Fotoplast S hart

### 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

DE-59423 Unna

Telephone no. +49 2303 8807-0

Fax no. +49 2303 8807-29

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

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

for this SDS

### 1.4. Emergency telephone number

Henkel Fire Department / 24h-Emergency-Contact-No.: +49 211 797-3350

## SECTION 2: Hazards identification \*\*\*

### 2.1. Classification of the substance or mixture

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

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

Eye Irrit. 2 H319

Skin Sens. 1 H317

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

##### Hazard statements \*\*\*



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H319 Causes serious eye irritation.  
H317 May cause an allergic skin reaction.

**Precautionary statements \*\*\***

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264.1 Wash hands thoroughly after handling.  
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.  
P333+P313 If skin irritation or rash occurs: 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 Tetramethylene dimethacrylate; Hydroxypropyl methacrylate; 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, 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 \*\*\*****Aliphatic urethane methacrylate**

EINECS no.	933-881-3				
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	>= 1	<	10	%	
Classification (Regulation (EC) No. 1272/2008)	Eye Irrit. 2		H319		
	Skin Sens. 1		H317		

ATE	oral	2.000	mg/kg
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**Tetramethylene dimethacrylate**

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

**4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters**



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**with acrylic acid**

CAS No.	55818-57-0			
EINECS no.	500-130-2			
Registration no.	01-2119490020-53			
Concentration	>= 0,1	<	1	%
Classification (Regulation (EC) No. 1272/2008)	Skin Sens. 1		H317	
	Aquatic Chronic 2		H411	

**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.

**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.

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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Recommended: alcohol resistant foam, CO<sub>2</sub>, powders, water spray/mist, Extinguishing measures to suit surroundings

#### Non suitable extinguishing media

Full water jet

### 5.2. Special hazards arising from the substance or mixture

In case of combustion evolution of dangerous gases possible.

### 5.3. Advice for firefighters

#### Special protective equipment for fire-fighting

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

#### Other information

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

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

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

### 6.2. Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers). Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil. Retain and dispose of contaminated wash water. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

### 6.3. Methods and material for containment and cleaning up

Pick up rest with suitable absorbent materials. Do not pick up with the help of saw-dust or other combustible substances. Clean contaminated floors and objects thoroughly, observing environmental regulations. Containers in which spilt substance has been collected must be adequately labelled. Dispose of as prescribed.

### 6.4. Reference to other sections

Refer to protective measures listed in Sections 7 and 8.

## 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



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aerosols. Avoid impact, friction and electro-static loading; risk of ignition!. Keep container tightly closed.

**Advice on protection against fire and explosion**

Keep away from sources of heat and ignition. No smoking. Take action to prevent static discharges. Avoid impact and friction. Use only explosion-proof equipment. Keep away from combustible material. Wear shoes with conductive soles.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep in original packaging, tightly closed. Storage rooms must be properly ventilated. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

**Hints on storage assembly**

Do not store together with foodstuffs. Do not store with strong oxidizing agents.

**Further information on storage conditions**

Keep under lock and key or accessible only to specialists or people who are authorized. Keep container tightly closed and in a well-ventilated place. Keep in a cool place

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Other information**

Contains no substances with occupational exposure limit values.

**Derived No/Minimal Effect Levels (DNEL/DMEL)****Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide**

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	0,233	mg/kg/d

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	0,145	mg/m <sup>3</sup>

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	0,0833	mg/kg/d

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



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**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 <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	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 <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	oral	
Mode of action	Systemic effects	
Concentration	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

**4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid**

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	33	mg/kg
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	1,17	mg/m <sup>3</sup>

**Hydroxylpropyl methacrylate**

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



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

**Tetramethylene dimethacrylate**

Type of value	PNEC	
Type	Freshwater	
Concentration	0,043	mg/l
Type of value	PNEC	
Type	Saltwater	
Concentration	0,004	mg/l
Type of value	PNEC	
Type	Water (intermittent release)	
Concentration	0,098	mg/l
Type of value	PNEC	



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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

#### 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid

Type of value	PNEC	
Type	Freshwater	
Concentration	0,025	mg/l
Type of value	PNEC	
Type	Saltwater	
Concentration	0,003	mg/l
Type of value	PNEC	
Type	Freshwater sediment	
Concentration	8,96	mg/kg
Type of value	PNEC	
Type	Marine sediment	
Concentration	0,896	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	1,78	mg/kg
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	10	mg/l

#### Hydroxylpropyl methacrylate

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





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Type of value	Hydroxylpropyl methacrylate	
Type	PNEC	
Concentration	Sewage treatment plant (STP)	
	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

## 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 Butyl rubber

### Eye protection

Safety glasses

### Body protection

Clothing as usual in the chemical industry.

## SECTION 9: Physical and chemical properties

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

<b>Physical state</b>	liquid	
<b>Colour</b>	Various, depending on coloration	
<b>Odour</b>	characteristic	
<b>Melting point</b>		
Remarks	not determined	
<b>Freezing point</b>		
Remarks	not determined	
<b>Boiling point or initial boiling point and boiling range</b>		
Value	209	°C
<b>Flammability</b>		



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evaluation not determined

**Upper and lower explosive limits**

Remarks not determined

**Flash point**

Value &gt; 100 °C

Method closed cup

**Ignition temperature**

Remarks not determined

**Decomposition temperature**

Remarks not determined

**pH value**

Remarks not determined

**Viscosity**

Remarks not determined

**Solubility(ies)**

Remarks not determined

**Partition coefficient n-octanol/water (log value)**

Remarks not determined

**Vapour pressure**

Remarks not determined

**Density and/or relative density**Value 1,1 g/cm<sup>3</sup>

Temperature 20 °C

**Relative vapour density**

Remarks not determined

**9.2. Other information****Odour threshold**

Remarks not determined

**Evaporation rate (ether = 1) :**

Remarks not determined

**Solubility in water**

Remarks virtually insoluble

**Explosive properties**

evaluation not determined

**Oxidising properties**

Remarks not determined

**Other information**

None known

**SECTION 10: Stability and reactivity****10.1. Reactivity**

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

**10.2. Chemical stability**



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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		

**4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid**

Species	rat		
LD0	>	2000	mg/kg
Method	OECD 401		

**Hydroxypropyl methacrylate**

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

**Aliphatic urethane methacrylate**

Species	rat		
LD50	>	2000	mg/kg

**Acute dermal toxicity**

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

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

Species	rat		
LD50	>	2000	mg/kg
Method	OECD 402		

**4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid**

Species	rat		
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LD0	>	2000	mg/kg
Method		OECD 402	

**Hydroxypropyl methacrylate**

Species		rabbit	
LD50	>	5000	mg/kg

**Aliphatic urethane methacrylate**

Species		rabbit	
LD50	>	2000	mg/kg

**Acute inhalational toxicity**

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

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

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

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

evaluation	irritant
Remarks	The classification criteria are met.

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

Species	rabbit
evaluation	slightly irritant

**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.

**Tetramethylene dimethacrylate**

Route of exposure	dermal
Species	mouse
evaluation	sensitizing
Method	OECD 429

**4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid**

Route of exposure	dermal
Species	mouse
evaluation	sensitizing
Method	OECD 429

**Hydroxypropyl methacrylate**

Species	mouse
evaluation	non-sensitizing



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Method OECD 429  
Remarks May cause sensitization by skin contact.

**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.

**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**



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## 12.1. Toxicity

### General information

not determined

### Fish toxicity (Components)

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

Species	carp (Cyprinus carpio)	
LC50	1,4	mg/l
Duration of exposure	96	h
Method	OECD 203	

#### Tetramethylene dimethacrylate

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

#### 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid

Species	carp (Cyprinus carpio)	
LC50	> 0,082	mg/l
Duration of exposure	96	h
Method	ISO 7346	

#### 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid

Species	Fathead minnow (Pimephales promelas)	
NOEC	0,25	mg/l
Duration of exposure	33	d
Method	OECD 210	

#### Hydroxypropyl methacrylate

Species	golden orfe (Leuciscus idus)	
LC50	493	mg/l
Duration of exposure	48	h
Method	DIN 38412 / Part 15	

### 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	
EC10	7,51	mg/l
Duration of exposure	21	d
Method	OECD 211	

#### 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid

Species	Daphnia magna	
LC50	> 16	mg/l
Duration of exposure	48	h
Method	OECD 202	

#### 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid

Species	Daphnia magna	
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NOEC	>=	0,51		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		

**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		

**4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid**

Species		Pseudokirchneriella subcapitata		
EC50		17		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		

**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		

**Tetramethylene dimethacrylate**

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

**4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid**

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

**12.2. Persistence and degradability**



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**General information**

not determined

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

Value &lt; 0 to 10 %

Duration of test 28 d  
evaluation not readily degradable**Tetramethylene dimethacrylate**

Value 84 %

Duration of test 28 d  
evaluation Readily biodegradable (according to OECD criteria)**4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid**

Value 42 %

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

**Tetramethylene dimethacrylate**

log Pow 3,1

Temperature 20 °C

**4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid**

log Pow &lt; 1,6 to 3,8

**Hydroxypropyl methacrylate**

log Pow 0,97

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





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## 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 \*\*\*

	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		-	-



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## 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)

Eye Irrit. 2	H319	Calculation method
Skin Sens. 1	H317	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.

### CLP categories listed in Chapter 2/3

Aquatic Chronic 2	Hazardous to the aquatic environment, chronic, Category 2
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

### 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.