

Trade name: FotoTec Repair opaque

Substance number: 71028

Version: 1 / GB

Date revised: 14.03.2023

Replaces Version: - / GB

Print date: 14.03.2023

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

1.1. Product identifier

FotoTec Repair 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

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)

Skin Irrit. 2 H315

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

H315

Causes skin irritation.



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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.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
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; 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid; Hydroxylpropyl methacrylate; 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****Aliphatic urethane methacrylate**

Concentration	>=	25	<	50	%
Classification (Regulation (EC) No. 1272/2008)					
				Eye Irrit. 2	H319

Hydroxylpropyl methacrylate

CAS No.	27813-02-1				
EINECS no.	248-666-3				
Registration no.	01-2119490226-37				
Concentration	>=	25	<	50	%
Classification (Regulation (EC) No. 1272/2008)					
				Eye Irrit. 2	H319
				Skin Sens. 1	H317

ATE	oral	2.000	mg/kg
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2-hydroxyethyl methacrylate

CAS No.	868-77-9				
EINECS no.	212-782-2				
Registration no.	01-2119490169-29				
Concentration	>=	10	<	25	%
Classification (Regulation (EC) No. 1272/2008)					
				Skin Irrit. 2	H315
				Eye Irrit. 2	H319
				Skin Sens. 1	H317

Additional remarks:



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

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

CAS No.	55818-57-0			
EINECS no.	500-130-2			
Registration no.	01-2119490020-53			
Concentration	>= 1	<	2,5	%
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	

Propylidynetrimethanol, ethoxylated, esters with acrylic acid

CAS No.	28961-43-5			
EINECS no.	500-066-5			
Registration no.	01-2119489900-30			
Concentration	>= 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**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

Ensure supply of fresh air. Remove affected person from danger area. Seek medical advice immediately.

After skin contact

Wash off immediately with soap and water. Seek medical advice immediately.

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

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	1,3	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	2,9	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

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	17,5	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	122,5	mg/m ³

Hydroxypropyl methacrylate

Reference substance	Hydroxypropyl 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 ³
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 ³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Route of exposure	oral	
Concentration	2,5	mg/kg

Propylidynetrimehanol, 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)	
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

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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

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

Type of value	PNEC	
Type	Freshwater	
Concentration	0,1	mg/l
Type of value	PNEC	
Type	Saltwater	
Concentration	0,01	mg/l
Type of value	PNEC	
Type	Freshwater sediment	
Concentration	35,8	mg/kg
Type of value	PNEC	
Type	Marine sediment	
Concentration	3,58	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	71	mg/kg
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	10	mg/l

Hydroxypropyl methacrylate

Reference substance	Hydroxypropyl methacrylate
Type of value	PNEC
Type	Freshwater



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

Propylidyntrimethanol, ethoxylated, esters with acrylic acid

Type of value	PNEC	
Type	Freshwater	
Concentration	0,002	mg/l
Type of value	PNEC	
Type	Saltwater	
Concentration	0,0002	mg/l
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	10	mg/l
Type of value	PNEC	
Type	Freshwater sediment	
Concentration	0,038	mg/kg/d
Type of value	PNEC	
Type	Marine sediment	
Concentration	0,004	mg/kg/d
Type of value	PNEC	
Type	Soil	
Concentration	0,006	mg/kg/d
Type of value	PNEC	
Type	Water (intermittent release)	
Concentration	0,019	mg/l

8.2. Exposure controls



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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**

Physical state	liquid, viscous
Colour	beige
Odour	characteristic
Melting point	
Remarks	not determined
Freezing point	
Remarks	not determined
Boiling point or initial boiling point and boiling range	
Value	> 100 °C
Flammability	
not determined	
Upper and lower explosive limits	
Remarks	not determined
Flash point	
Value	209 °C
Method	closed cup
Ignition temperature	
Remarks	not determined
Decomposition temperature	
Remarks	not determined
pH value	
Remarks	not determined



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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	1,14		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

10.6. Hazardous decomposition products

Toxic gases/vapours, Irritant gases/vapours

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SECTION 11: Toxicological information

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

Acute oral toxicity

ATE	5.300,60	mg/kg
	12	
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	

2-hydroxyethyl methacrylate

Species	rat	
LD50	> 5564	mg/kg

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

Species	Rats (male/female)	
LD50	> 2000	mg/kg
Method	OECD 401	

Hydroxypropyl methacrylate

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

Propylidynetrimethanol, ethoxylated, esters with acrylic acid

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.
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Acute dermal toxicity (Components)

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

Species	rat	
LD50	> 2000	mg/kg
Method	OECD 402	

2-hydroxyethyl methacrylate

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

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

Species	Rats (male/female)	
LD50	> 2000	mg/kg
Method	OECD 402	

Hydroxypropyl methacrylate

Species	rabbit	
LD50	> 5000	mg/kg

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Propylidynetrimethanol, ethoxylated, esters with acrylic acid

Species	rabbit		
LD50	>	13200	mg/kg

Aliphatic urethane methacrylate

Species	rabbit		
LD50	>	2000	mg/kg

Acute inhalational toxicity

ATE		6,1827	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)**Aliphatic urethane methacrylate**

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

evaluation	irritant		
Remarks	The classification criteria are met.		

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)**2-hydroxyethyl methacrylate**

Species	rabbit		
evaluation	slightly irritant		

Hydroxypropyl methacrylate

Species	rabbit		
evaluation	slightly irritant		

Propylidynetrimethanol, ethoxylated, esters with acrylic acid

Species	rabbit		
evaluation	irritant		
Method	OECD 405		

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

Route of exposure	dermal		
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Species	mouse
evaluation	sensitizing
Method	OECD 429

Hydroxypropyl methacrylate

Species	mouse
evaluation	non-sensitizing
Method	OECD 429
Remarks	May cause sensitization by skin contact.

Propylidyntrimethanol, 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.
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Mutagenicity (Components)**Aliphatic urethane methacrylate**

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

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

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

Remarks	Based on available data, the classification criteria are not met.
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Specific Target Organ Toxicity (STOT) (Components)**Aliphatic urethane methacrylate**

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

Remarks	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



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

2-hydroxyethyl methacrylate

Species	Oryzias latipes		
LC50	> 100		mg/l
Duration of exposure	96	h	
Method	OECD 203		

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

Species	carp (Cyprinus carpio)		
LC50	> 100		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		

Propylidynetrimethanol, ethoxylated, esters with acrylic acid

Species	Zebraaberbbling		
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		



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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	

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

Species	Daphnia magna	
EC50	> 100	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	
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	

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

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

2-hydroxyethyl methacrylate

Species	Pseudokirchneriella subcapitata	
EC50	836	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	
ErC50	105	mg/l
Duration of exposure	72	h
Method	OECD 201	



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Hydroxypropyl methacrylate

Species	Pseudokirchneriella subcapitata		
EC50	>	97,2	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		

2-hydroxyethyl methacrylate

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

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		

Propylidynetrimethanol, ethoxylated, esters with acrylic acid

Species	activated sludge		
EC20		292	mg/l
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 evaluation		28	d		
evaluation	not readily degradable				

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

Value		42			%
Duration of test evaluation		28	d		
evaluation	biodegradable				

Ready degradability (Components)**2-hydroxyethyl methacrylate**

Value		92	to	100	%
Duration of test		14	d		
Method	Sewage water systeme				

Hydroxypropyl methacrylate

Value		81			%
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Duration of test	28	Days		
Propylidynetrimethanol, ethoxylated, esters with acrylic acid				
Value	58	to	61	%
Duration of test	28	d		

12.3. Bioaccumulative potential

General information

not determined

Partition coefficient n-octanol/water (log value)

Remarks not determined

Octanol/water partition coefficient (log Pow) (Components)

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

log Pow	3,1		
Temperature	23	°C	

2-hydroxyethyl methacrylate

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

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

log Pow	<	1,6	to	3,8
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Hydroxypropyl methacrylate

log Pow	0,97		
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

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.



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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	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

Hazard statements listed in Chapter 3



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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.

CLP categories listed in Chapter 3

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