

Trade name: Fotoplast Gel, opak H

Substance number: 71135

Version: 1 / GB

Date revised: 13.03.2023

Replaces Version: - / GB

Print date: 13.03.2023

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

1.1. Product identifier

Fotoplast Gel, opak H

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

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

by / telephone

E-mail address of

sicherheitsdatenblatt@dreve.de

person responsible

for this SDS

1.4. Emergency telephone number

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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

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

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.



Trade name: Fotoplast Gel, opak H

Substance number: 71135

Version: 1 / GB

Date revised: 13.03.2023

Replaces Version: - / GB

Print date: 13.03.2023

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)					
					H319
					Eye Irrit. 2

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)					
					H319
					Eye Irrit. 2
					H317
					Skin Sens. 1

ATE	oral	2.000	mg/kg
-----	------	-------	-------

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)					
					H315
					Skin Irrit. 2
					H319
					Eye Irrit. 2
					H317
					Skin Sens. 1

Additional remarks:



Trade name: Fotoplast Gel, opak H

Substance number: 71135

Version: 1 / GB

Date revised: 13.03.2023

Replaces Version: - / GB

Print date: 13.03.2023

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.

After inhalation

Ensure supply of fresh air. When vapours are intensively inhaled, seek medical help immediately.

After skin contact

Wash off immediately with soap and water. Take medical treatment.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Summon a doctor immediately.

After ingestion

If swallowed, seek medical advice immediately and show this container or label. 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



Trade name: Fotoplast Gel, opak H

Substance number: 71135

Version: 1 / GB

Date revised: 13.03.2023

Replaces Version: - / GB

Print date: 13.03.2023

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.

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.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Avoid contact with skin, eyes and 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. In case the product spills into sewage waters, immediately inform the authorities.

6.3. Methods and material for containment and cleaning up

Pick up with absorbent material. Dispose of absorbed material in accordance with the regulations.

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**

Avoid formation of aerosols. Perform filling operations only at stations with exhaust ventilation facilities. Provide suitable exhaust ventilation at the processing machines. Keep container tightly closed.

7.2. Conditions for safe storage, including any incompatibilities



Trade name: Fotoplast Gel, opak H

Substance number: 71135

Version: 1 / GB

Date revised: 13.03.2023

Replaces Version: - / GB

Print date: 13.03.2023

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. Provide solvent-resistant and impermeable floor.

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

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	

Trade name: Fotoplast Gel, opak H

Substance number: 71135

Version: 1 / GB

Date revised: 13.03.2023

Replaces Version: - / GB

Print date: 13.03.2023

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	
Route of exposure	inhalative	
Concentration	14,7	mg/m ³

Type of value	Hydroxypropyl methacrylate Derived No Effect Level (DNEL)	
Reference group	Worker	
Route of exposure	dermal	
Concentration	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



Trade name: Fotoplast Gel, opak H

Substance number: 71135

Version: 1 / GB

Date revised: 13.03.2023

Replaces Version: - / GB

Print date: 13.03.2023

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

Propylidynetrimethanol, 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

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



Trade name: Fotoplast Gel, opak H

Substance number: 71135

Version: 1 / GB

Date revised: 13.03.2023

Replaces Version: - / GB

Print date: 13.03.2023

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	
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	
---------------	------	--



Trade name: Fotoplast Gel, opak H

Substance number: 71135

Version: 1 / GB

Date revised: 13.03.2023

Replaces Version: - / GB

Print date: 13.03.2023

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**General protective and hygiene measures**

Hold eye wash fountain available. Hold emergency shower available. Do not inhale gases/vapours/aerosols. Avoid contact with skin and eyes. Do not eat, drink or smoke during work time. 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



Trade name: Fotoplast Gel, opak H

Substance number: 71135

Version: 1 / GB

Date revised: 13.03.2023

Replaces Version: - / GB

Print date: 13.03.2023

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	Various, depending on coloration		
Odour	characteristic		
Melting point			
Remarks	not determined		
Freezing point			
Remarks	not determined		
Boiling point or initial boiling point and boiling range			
Value	209	°C	
Flammability			
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			
Value	1,14		g/cm ³
Temperature	20	°C	
Relative vapour density			
Remarks	not determined		

9.2. Other information**Odour threshold**

Remarks not determined



Trade name: Fotoplast Gel, opak H

Substance number: 71135

Version: 1 / GB

Date revised: 13.03.2023

Replaces Version: - / GB

Print date: 13.03.2023

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

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 5.299,47 mg/kg
37

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)



Trade name: Fotoplast Gel, opak H

Substance number: 71135

Version: 1 / GB

Date revised: 13.03.2023

Replaces Version: - / GB

Print date: 13.03.2023

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.
---------	---

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

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		6,1572	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.
---------	---

Skin corrosion/irritation

evaluation	irritant
Remarks	The classification criteria are met.

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



Trade name: Fotoplast Gel, opak H

Substance number: 71135

Version: 1 / GB

Date revised: 13.03.2023

Replaces Version: - / GB

Print date: 13.03.2023

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

Serious eye damage/irritation

evaluation	irritant
------------	----------

Remarks	The classification criteria are met.
---------	--------------------------------------

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

Species	rabbit
---------	--------

evaluation	slightly irritant
------------	-------------------

Hydroxypropyl methacrylate

Species	rabbit
---------	--------

evaluation	slightly irritant
------------	-------------------

Propylidynetrimethanol, ethoxylated, esters with acrylic acid

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.
---------	---

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
------------	-----------------

Method	OECD 429
--------	----------

Remarks	May cause sensitization by skin contact.
---------	--

Propylidynetrimethanol, ethoxylated, esters with acrylic acid

Route of exposure	dermal
-------------------	--------

Species	guinea pig
---------	------------

evaluation	sensitizing
------------	-------------

Method	OECD 406
--------	----------

Aliphatic urethane methacrylate

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

Subacute, subchronic, chronic toxicity

Remarks	not determined
---------	----------------

Mutagenicity

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



Trade name: Fotoplast Gel, opak H

Substance number: 71135

Version: 1 / GB

Date revised: 13.03.2023

Replaces Version: - / GB

Print date: 13.03.2023

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**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	



Trade name: Fotoplast Gel, opak H

Substance number: 71135

Version: 1 / GB

Date revised: 13.03.2023

Replaces Version: - / GB

Print date: 13.03.2023

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 Zebraeaerbling
 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

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

Trade name: Fotoplast Gel, opak H

Substance number: 71135

Version: 1 / GB

Date revised: 13.03.2023

Replaces Version: - / GB

Print date: 13.03.2023

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

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
EC50 > 3000 mg/l



Trade name: Fotoplast Gel, opak H

Substance number: 71135

Version: 1 / GB

Date revised: 13.03.2023

Replaces Version: - / GB

Print date: 13.03.2023

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 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 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 %
 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



Trade name: Fotoplast Gel, opak H

Substance number: 71135

Version: 1 / GB

Date revised: 13.03.2023

Replaces Version: - / GB

Print date: 13.03.2023

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

log Pow < 1,6 to 3,8

Hydroxypropyl methacrylate

log Pow 0,97

Temperature 20 °C

Propylidyntrimethanol, 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.

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 in agreement with the regional waste disposal company.



Trade name: Fotoplast Gel, opak H

Substance number: 71135

Version: 1 / GB

Date revised: 13.03.2023

Replaces Version: - / GB

Print date: 13.03.2023

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**

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.



Trade name: Fotoplast Gel, opak H

Substance number: 71135

Version: 1 / GB

Replaces Version: - / GB

Date revised: 13.03.2023

Print date: 13.03.2023