

Trade name: FotoDent splint

Substance number: 9368

Version: 2 / GB

Date revised: 13.03.2026

Replaces Version: 1 / GB

Print date: 13.03.2026

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

1.1. Product identifier

FotoDent splint

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 dental splints by means of 3D printing processes

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

Dreve Dentamid 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 & 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)

Skin Irrit. 2 H315

Eye Irrit. 2 H319

Skin Sens. 1A H317

STOT SE 3 H335

Aquatic Chronic 2 H411

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



Trade name: FotoDent splint

Substance number: 9368

Version: 2 / GB

Date revised: 13.03.2026

Replaces Version: 1 / GB

Print date: 13.03.2026

Warning

Hazard statements

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H317	May cause an allergic skin reaction.
H335	May cause respiratory irritation.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements ***

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P405	Store locked up.
P501.1	Dispose of contents/container to industrial incineration plant.

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

contains	Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide; Mixture of: 7,9,9-Trimethyl-3,14-dioxa-4,13-dioxo-5,12-di-azahexadecane-1,16-diyl-prop-2-enoate; 7,7,9-Trimethyl-3,14-dioxa-4,13-dioxo-5,12-diazahehexadecane-1,16-diylprop-2-enoate; Reaction products of 2-Propenoic acid (2 moles) and Neopentylglycol hydroxypivalate (1 mole); 1,2-ethanediy diacrylate; Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate
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2.3. Other hazards

No special hazards have to be mentioned.

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

SECTION 3: Composition/information on ingredients *****3.2. Mixtures****Hazardous ingredients *******Reaction products of 2-Propenoic acid (2 moles) and Neopentylglycol hydroxypivalate (1 mole)**

CAS No.	2136366-99-7		
EINECS no.	821-997-6		
Registration no.	01-2120758887-31		
Concentration	>= 25	< 50	%
Classification (Regulation (EC) No. 1272/2008)	Skin Sens. 1A	H317	
	Aquatic Chronic 2	H411	

Acrylic Resin

Concentration	>= 10	< 25	%
Classification (Regulation (EC) No. 1272/2008)	Skin Irrit. 2	H315	
	Eye Irrit. 2	H319	

Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate

CAS No.	7534-94-3
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Trade name: FotoDent splint

Substance number: 9368

Version: 2 / GB

Date revised: 13.03.2026

Replaces Version: 1 / GB

Print date: 13.03.2026

EINECS no. 231-403-1
 Registration no. 01-2119886505-27
 Concentration \geq 20 < 25 %
 Classification (Regulation (EC) No. 1272/2008)
 Skin Irrit. 2 H315
 Eye Irrit. 2 H319
 STOT SE 3 H335
 Aquatic Chronic 3 H412

Concentration limits (Regulation (EC) No. 1272/2008)
 STOT SE 3 \geq 10 %

**Mixture of: 7,9,9-Trimethyl-3,14-dioxa-4,13-dioxo-5,12-di-azahexadecane-1,16-diyl-prop-2-enoate;
 7,7,9-Trimethyl-3,14-dioxa-4,13-dioxo-5,12-diaazahexadecane-1,16-diylprop-2-enoate**

CAS No. 52658-19-2
 EINECS no. 412-260-6
 Registration no. 01-2119381661-37
 Concentration \geq 10 < 25 %
 Classification (Regulation (EC) No. 1272/2008)
 Eye Irrit. 2 H319
 Skin Sens. 1 H317
 Aquatic Chronic 2 H411

Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

CAS No. 162881-26-7
 EINECS no. 423-340-5
 Registration no. 01-2119489401-38
 Concentration \geq 1 < 10 %
 Classification (Regulation (EC) No. 1272/2008)
 Skin Sens. 1A H317
 Aquatic Chronic 4 H413

1-(4-tert-butylphenyl)-3-(4-methoxyphenyl)-1,3-propanedione

CAS No. 70356-09-1
 EINECS no. 274-581-6
 Registration no. 01-2119967408-25
 Concentration \geq 1 < 10 %
 Classification (Regulation (EC) No. 1272/2008)
 Aquatic Chronic 4 H413

1,2-ethanediyl diacrylate

CAS No. 2274-11-5
 EINECS no. 218-886-4
 Concentration \geq 0,1 < 1 %
 Classification (Regulation (EC) No. 1272/2008)
 Acute Tox. 3 H301
 Acute Tox. 3 H311
 Skin Irrit. 2 H315
 Eye Dam. 1 H318
 Skin Sens. 1 H317

ATE oral 50 mg/kg
 ATE dermal 200 mg/kg

Trade name: FotoDent splint

Substance number: 9368

Version: 2 / GB

Date revised: 13.03.2026

Replaces Version: 1 / GB

Print date: 13.03.2026

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.

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.

Trade name: FotoDent splint

Substance number: 9368

Version: 2 / GB

Date revised: 13.03.2026

Replaces Version: 1 / GB

Print date: 13.03.2026

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

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

6.4. Reference to other sections

Refer to protective measures listed in Sections 7 and 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Provide good ventilation of working area (local exhaust ventilation if necessary). Avoid formation of aerosols. Avoid impact, friction and electro-static loading; risk of ignition! Keep container tightly closed.

Advice on protection against fire and explosion

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

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

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

Hints on storage assembly

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

Further information on storage conditions

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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Other information



Trade name: FotoDent splint

Substance number: 9368

Version: 2 / GB

Date revised: 13.03.2026

Replaces Version: 1 / GB

Print date: 13.03.2026

Contains no substances with occupational exposure limit values.

Derived No/Minimal Effect Levels (DNEL/DMEL)**Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl 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	1,22	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	0,35	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	0,36	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	0,21	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	0,21	mg/kg/d

Phenyl bis(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	inhalative	
Mode of action	Systemic effects	
Concentration	21	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	3	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	



Trade name: FotoDent splint

Substance number: 9368

Version: 2 / GB

Date revised: 13.03.2026

Replaces Version: 1 / GB

Print date: 13.03.2026

Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	5,2	mg/m ³

Type of value	Derived No Effect Level (DNEL)	
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Reference group	Consumer	
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Duration of exposure	Long term	
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Route of exposure	dermal	
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Mode of action	Systemic effects	
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Concentration	1,5	mg/kg/d
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Type of value	Derived No Effect Level (DNEL)	
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Reference group	Consumer	
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Duration of exposure	Long term	
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Route of exposure	oral	
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Mode of action	Systemic effects	
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Concentration	1,5	mg/kg/d
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Reaction products of 2-Propenoic acid (2 moles) and Neopentylglycol hydroxypivalate (1 mole)

Type of value	Derived No Effect Level (DNEL)	
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Reference group	Worker	
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Duration of exposure	Long term	
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Route of exposure	inhalative	
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Mode of action	Systemic effects	
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Concentration	9,87	mg/m ³
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Type of value	Derived No Effect Level (DNEL)	
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Reference group	Worker	
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Duration of exposure	Long term	
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Route of exposure	dermal	
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Mode of action	Systemic effects	
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Concentration	2,8	mg/kg/d
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Type of value	Derived No Effect Level (DNEL)	
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Reference group	Consumer	
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Duration of exposure	Long term	
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Route of exposure	inhalative	
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Mode of action	Systemic effects	
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Concentration	1,73	mg/m ³
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Type of value	Derived No Effect Level (DNEL)	
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Reference group	Consumer	
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Duration of exposure	Long term	
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Route of exposure	dermal	
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Mode of action	Systemic effects	
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Concentration	1	mg/person/ d
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Type of value	Derived No Effect Level (DNEL)	
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Reference group	Consumer	
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Duration of exposure	Long term	
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Route of exposure	oral	
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Mode of action	Systemic effects	
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Concentration	1	mg/kg/d
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Predicted No Effect Concentration (PNEC)



Trade name: FotoDent splint

Substance number: 9368

Version: 2 / GB

Date revised: 13.03.2026

Replaces Version: 1 / GB

Print date: 13.03.2026

Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate

Type of value	PNEC	
Type	Freshwater	
Concentration	2,33	µg/l
Type of value	PNEC	
Type	Freshwater sediment	
Concentration	1,2	mg/kg
Type of value	PNEC	
Type	Saltwater	
Concentration	0,233	µg/l
Type of value	PNEC	
Type	Marine sediment	
Concentration	0,12	mg/kg
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	2,45	mg/l
Type of value	PNEC	
Type	Soil	
Concentration	0,239	mg/kg

Mixture of: 7,9,9-Trimethyl-3,14-dioxa-4,13-dioxo-5,12-di-azahexadecane-1,16-diyl-prop-2-enoate; 7,7,9-Trimethyl-3,14-dioxa-4,13-dioxo-5,12-diaza-hexadecane-1,16-diylprop-2-enoate

Type of value	PNEC	
Type	Freshwater	
Concentration	4,9	µg/l
Type of value	PNEC	
Type	Freshwater sediment	
Concentration	0,851	mg/kg
Type of value	PNEC	
Type	Saltwater	
Concentration	4,9	µg/l
Type of value	PNEC	
Type	Marine sediment	
Concentration	0,0851	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	0,167	mg/kg
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	1	mg/kg

Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

Type of value	PNEC	
Type	Freshwater	
Concentration	1	µg/l



Trade name: FotoDent splint

Substance number: 9368

Version: 2 / GB

Date revised: 13.03.2026

Replaces Version: 1 / GB

Print date: 13.03.2026

Type of value	PNEC	
Type	Saltwater	
Concentration	1	µg/l
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	1	mg/l
Type of value	PNEC	
Type	Freshwater sediment	
Concentration	0,712	mg/kg
Type of value	PNEC	
Type	Marine sediment	
Concentration	0,712	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	20	mg/kg

Reaction products of 2-Propenoic acid (2 moles) and Neopentylglycol hydroxypivalate (1 mole)

Type of value	PNEC	
Type	Freshwater	
Concentration	1,8	µg/l
Type of value	PNEC	
Type	Saltwater	
Concentration	0,18	µg/l
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	19,52	mg/l
Type of value	PNEC	
Type	Freshwater sediment	
Concentration	0,526	mg/kg
Type of value	PNEC	
Type	Marine sediment	
Concentration	0,053	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	0,104	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



Trade name: FotoDent splint

Substance number: 9368

Version: 2 / GB

Date revised: 13.03.2026

Replaces Version: 1 / GB

Print date: 13.03.2026

Hand protection

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

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

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

Hand protection must comply with EN 374.

Appropriate Material nitrile

Eye protection

Safety glasses

Body protection

Clothing as usual in the chemical industry.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state	liquid	
Colour	colourless	
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		
evaluation	not determined	
Upper and lower explosive limits		
Remarks	not determined	
Flash point		
Value	91	°C
Method	closed cup	
Auto-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	



Trade name: FotoDent splint

Substance number: 9368

Version: 2 / GB

Date revised: 13.03.2026

Replaces Version: 1 / GB

Print date: 13.03.2026

Density and/or relative density

Value	1,09		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

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 according to GHS (e.g see UN GHS)		

Acute oral toxicity (Components)

1,2-ethanediyl diacrylate



Trade name: FotoDent splint

Substance number: 9368

Version: 2 / GB

Date revised: 13.03.2026

Replaces Version: 1 / GB

Print date: 13.03.2026

LD50 50 to 300 mg/kg

Acrylic Resin

LD50 > 2000 mg/kg

Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

Species rat

LD50 > 2000 mg/kg

Method OECD 401

1-(4-tert-butylphenyl)-3-(4-methoxyphenyl)-1,3-propanedione

Species rat

LD50 > 16000 mg/kg

Method OECD 401

Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate

Species rat

LD50 > 2000 mg/kg

Mixture of: 7,9,9-Trimethyl-3,14-dioxo-4,13-dioxo-5,12-di-azahexadecane-1,16-diyl-prop-2-enoate; 7,7,9-Trimethyl-3,14-dioxo-4,13-dioxo-5,12-diaazahexadecane-1,16-diylprop-2-enoate

Species rat

LD50 > 2000 mg/kg

Method EEC 84/449, B.1

Reaction products of 2-Propenoic acid (2 moles) and Neopentylglycol hydroxypivalate (1 mole)

Species rat (female)

LD50 > 2000 mg/kg

Method OECD 423

Acute dermal toxicity

ATE > 10.000 mg/kg

Method calculated value according to GHS (e.g see UN GHS)

Acute dermal toxicity (Components)**1,2-ethanediyl diacrylate**

LD50 200 to 1000 mg/kg

Acrylic Resin

LD50 > 2000 mg/kg

Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

Species rat

LD50 > 2000 mg/kg

Method OECD 402

Mixture of: 7,9,9-Trimethyl-3,14-dioxo-4,13-dioxo-5,12-di-azahexadecane-1,16-diyl-prop-2-enoate; 7,7,9-Trimethyl-3,14-dioxo-4,13-dioxo-5,12-diaazahexadecane-1,16-diylprop-2-enoate

Species rat

LD50 > 2000 mg/kg

Method 92/69/EEC, B.3

Reaction products of 2-Propenoic acid (2 moles) and Neopentylglycol hydroxypivalate (1 mole)

Species rat

LD50 > 2000 mg/kg

Method OECD 402

Acute inhalational toxicity

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

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

LC50 > 5 mg/l

Duration of exposure 4 h

Administration/Form Dust/Mist



Trade name: FotoDent splint

Substance number: 9368

Version: 2 / GB

Date revised: 13.03.2026

Replaces Version: 1 / GB

Print date: 13.03.2026

Skin corrosion/irritation

evaluation	irritant
Remarks	The classification criteria are met.

Skin corrosion/irritation (Components)**1,2-ethanediyl diacrylate**

evaluation	irritant
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Acrylic Resin

evaluation	irritant
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Serious eye damage/irritation

evaluation	irritant
Remarks	The classification criteria are met.

Serious eye damage/irritation (Components)**1,2-ethanediyl diacrylate**

evaluation	irritant
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Acrylic Resin

evaluation	irritant
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Mixture of: 7,9,9-Trimethyl-3,14-dioxa-4,13-dioxo-5,12-di-azahexadecane-1,16-diyl-prop-2-enoate; 7,7,9-Trimethyl-3,14-dioxa-4,13-dioxo-5,12-diaazahexadecane-1,16-diylprop-2-enoate

Species	rabbit
evaluation	irritant
Method	EEC 84/449, B.5

Sensitization

evaluation	May cause sensitization by skin contact.
Remarks	The classification criteria are met.

Sensitization (Components)**1,2-ethanediyl diacrylate**

evaluation	A sensitization is possible for persons who are sensitive.
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Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

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

Mixture of: 7,9,9-Trimethyl-3,14-dioxa-4,13-dioxo-5,12-di-azahexadecane-1,16-diyl-prop-2-enoate; 7,7,9-Trimethyl-3,14-dioxa-4,13-dioxo-5,12-diaazahexadecane-1,16-diylprop-2-enoate

Route of exposure	dermal
Species	guinea pig
evaluation	sensitizing

Reaction products of 2-Propenoic acid (2 moles) and Neopentylglycol hydroxypivalate (1 mole)

Route of exposure	dermal
Species	mouse
evaluation	sensitizing
Method	OECD 429

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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Reproductive toxicity

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



Trade name: FotoDent splint

Substance number: 9368

Version: 2 / GB

Date revised: 13.03.2026

Replaces Version: 1 / GB

Print date: 13.03.2026

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

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

Remarks The classification criteria are met.
evaluation May cause respiratory irritation.

Repeated exposure

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

Specific Target Organ Toxicity (STOT) (Components)**Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate****Single exposure**

evaluation May cause respiratory irritation.
Route of exposure inhalative

Species rat

NOAEL 100 ppm(m)

Duration of exposure 90 d

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)**Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide**

Species zebra fish (Brachydanio rerio)
LC50 > 90 µg/l
Duration of exposure 96 h
Method OECD 203

1-(4-tert-butylphenyl)-3-(4-methoxyphenyl)-1,3-propanedione

Species carp (Cyprinus carpio)
LC50 > 0,03 mg/l
Duration of exposure 96 h
Remarks The product is slightly soluble in the test medium. An eluate was tested.

Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate

Species zebra fish (Brachydanio rerio)
LC50 1,79 mg/l
Duration of exposure 96 h
Method OECD 203



Trade name: FotoDent splint

Substance number: 9368

Version: 2 / GB

Date revised: 13.03.2026

Replaces Version: 1 / GB

Print date: 13.03.2026

Mixture of: 7,9,9-Trimethyl-3,14-dioxa-4,13-dioxo-5,12-di-azahexadecane-1,16-diyl-prop-2-enoate; 7,7,9-Trimethyl-3,14-dioxa-4,13-dioxo-5,12-diaazahexadecane-1,16-diylprop-2-enoate

Species	carp (Cyprinus carpio)	
LC50	4,9	mg/l
Duration of exposure	96	h
Method	OECD 203	

Reaction products of 2-Propenoic acid (2 moles) and Neopentylglycol hydroxypivalate (1 mole)

Species	zebra fish (Brachydanio rerio)	
LC50	1,8	mg/l
Duration of exposure	96	h
Method	OECD 203	

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

Species	Daphnia magna	
EC50	> 1,175	µg/l
Duration of exposure	48	h
Method	OECD 202	

Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

Species	Daphnia magna	
NOEC	>= 8,1	µg/l
Duration of exposure	21	d
Method	OECD 211	

1-(4-tert-butylphenyl)-3-(4-methoxyphenyl)-1,3-propanedione

Species	Daphnia magna	
EC50	> 0,03	mg/l
Duration of exposure	48	h
Method	OECD 202	
Remarks	The product is slightly soluble in the test medium. An eluate was tested.	

1-(4-tert-butylphenyl)-3-(4-methoxyphenyl)-1,3-propanedione

Species	Daphnia magna	
NOEC	>= 3	µg/l
Duration of exposure	21	d
Remarks	The product is slightly soluble in the test medium. An eluate was tested.	

Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate

Species	Daphnia magna	
EC50	> 2,57	mg/l
Duration of exposure	48	h
Method	OECD 202	

Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate

Species	Daphnia magna	
NOEC	0,233	mg/l
Duration of exposure	21	d
Method	OECD 211	

Mixture of: 7,9,9-Trimethyl-3,14-dioxa-4,13-dioxo-5,12-di-azahexadecane-1,16-diyl-prop-2-enoate; 7,7,9-Trimethyl-3,14-dioxa-4,13-dioxo-5,12-diaazahexadecane-1,16-diylprop-2-enoate

Species	Daphnia magna	
NOEC	9,9	mg/l
Duration of exposure	48	h
Method	OECD 202	

Reaction products of 2-Propenoic acid (2 moles) and Neopentylglycol hydroxypivalate (1 mole)

Species	Daphnia magna	
EC50	26,37	mg/l
Duration of exposure	48	h
Method	OECD 202	

Trade name: FotoDent splint

Substance number: 9368

Version: 2 / GB

Date revised: 13.03.2026

Replaces Version: 1 / GB

Print date: 13.03.2026

Algae toxicity (Components)**Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide**

Species	Scenedesmus subspicatus		
EC50	>	260	µg/l
Duration of exposure	72	h	
Method	OECD 201		

1-(4-tert-butylphenyl)-3-(4-methoxyphenyl)-1,3-propanedione

Species	Pseudokirchneriella subcapitata		
EC50	>	0,055	mg/l
Duration of exposure	96	h	
Method	OECD 201		
Remarks	The product is slightly soluble in the test medium. An eluate was tested.		

Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate

Species	Pseudokirchneriella subcapitata		
NOEC		0,254	mg/l
Duration of exposure	21	d	
Method	OECD 201		

Mixture of: 7,9,9-Trimethyl-3,14-dioxo-4,13-dioxo-5,12-di-azahexadecane-1,16-diyl-prop-2-enoate; 7,7,9-Trimethyl-3,14-dioxo-4,13-dioxo-5,12-diaazahexadecane-1,16-diylprop-2-enoate

Species	Pseudokirchneriella subcapitata		
EC50		33	mg/l
Duration of exposure	72	h	
Method	OECD 201		

Reaction products of 2-Propenoic acid (2 moles) and Neopentylglycol hydroxypivalate (1 mole)

Species	Pseudokirchneriella subcapitata		
EC50		4,88	mg/l
Duration of exposure	72	h	
Method	OECD 201		

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

Species	activated sludge		
EC50	>	100	mg/l
Duration of exposure	3	h	
Method	OECD 209		

1-(4-tert-butylphenyl)-3-(4-methoxyphenyl)-1,3-propanedione

Species	activated sludge		
NOEC	>=	1000	mg/l
Duration of exposure	3	h	
Method	OECD 209		
Remarks	The product is slightly soluble in the test medium. An eluate was tested.		

Mixture of: 7,9,9-Trimethyl-3,14-dioxo-4,13-dioxo-5,12-di-azahexadecane-1,16-diyl-prop-2-enoate; 7,7,9-Trimethyl-3,14-dioxo-4,13-dioxo-5,12-diaazahexadecane-1,16-diylprop-2-enoate

Species	activated sludge		
EC50	>	100	mg/l
Duration of exposure	3	h	
Method	OECD 209		

Reaction products of 2-Propenoic acid (2 moles) and Neopentylglycol hydroxypivalate (1 mole)

Species	activated sludge		
NOEC		125	mg/l
Duration of exposure	3	h	
Method	OECD 209		

12.2. Persistence and degradability



Trade name: FotoDent splint

Substance number: 9368

Version: 2 / GB

Date revised: 13.03.2026

Replaces Version: 1 / GB

Print date: 13.03.2026

General information

not determined

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

Value	1	%
Duration of test evaluation	29	d
Method	not readily degradable OECD 301 B	

1-(4-tert-butylphenyl)-3-(4-methoxyphenyl)-1,3-propanedione

evaluation not degradable

Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate

Value	70	%
Duration of test evaluation	28	d
Method	Readily biodegradable (according to OECD criteria)	

Mixture of: 7,9,9-Trimethyl-3,14-dioxa-4,13-dioxo-5,12-di-aza-hexadecane-1,16-diyl-prop-2-enoate; 7,7,9-Trimethyl-3,14-dioxa-4,13-dioxo-5,12-diaza-hexadecane-1,16-diylprop-2-enoate

Value	7	to	15	%
Duration of test evaluation	29	d		
Method	not readily degradable OECD 301 B			

Reaction products of 2-Propenoic acid (2 moles) and Neopentylglycol hydroxypivalate (1 mole)

Value	43,5	%
Duration of test evaluation	10	d
Method	Moderately/partially biodegradable OECD 301F	

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)**Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide**

log Pow 5,8

Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylatelog Pow 5,09
Method OECD 117**Reaction products of 2-Propenoic acid (2 moles) and Neopentylglycol hydroxypivalate (1 mole)**log Pow appr. 3,58
Temperature 25 °C**1-(4-tert-butylphenyl)-3-(4-methoxyphenyl)-1,3-propanedione**log Pow 6,1
Temperature 20 °C
Method OECD 107**12.4. Mobility in soil****General information**

not determined

12.5. Results of PBT and vPvB assessment**General information**



Trade name: FotoDent splint

Substance number: 9368

Version: 2 / GB

Date revised: 13.03.2026

Replaces Version: 1 / GB

Print date: 13.03.2026

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 ***

Trade name: FotoDent splint




Substance number: 9368

Version: 2 / GB

Date revised: 13.03.2026

Replaces Version: 1 / GB

Print date: 13.03.2026

	Land transport ADR/RID ***	Marine transport IMDG/GGVSee ***	Air transport ICAO/IATA ***
14.1. UN number or ID number	3082	3082	3082
14.2. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Reaction products of 2-Propenoic acid (2 moles) and Neopentylglycol hydroxypivalate (1 mole), Mixture of: 7,9,9-Trimethyl-3,14-dioxo-4,13-dioxo-5,12-diazahexadecane-1,16-diyl-prop-2-enoate; 7,7,9-Trimethyl-3,14-dioxo-4,13-dioxo-5,12-diazahexadecane-1,16-diylprop-2-enoate)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Reaction products of 2-Propenoic acid (2 moles) and Neopentylglycol hydroxypivalate (1 mole), Mixture of: 7,9,9-Trimethyl-3,14-dioxo-4,13-dioxo-5,12-diazahexadecane-1,16-diyl-prop-2-enoate; 7,7,9-Trimethyl-3,14-dioxo-4,13-dioxo-5,12-diazahexadecane-1,16-diylprop-2-enoate)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Reaction products of 2-Propenoic acid (2 moles) and Neopentylglycol hydroxypivalate (1 mole), Mixture of: 7,9,9-Trimethyl-3,14-dioxo-4,13-dioxo-5,12-diazahexadecane-1,16-diyl-prop-2-enoate; 7,7,9-Trimethyl-3,14-dioxo-4,13-dioxo-5,12-diazahexadecane-1,16-diylprop-2-enoate)
14.3. Transport hazard class(es)	9	9	9
Label			
14.4. Packing group	III	III	III
Remarks	The product is not subject to any other provisions of ADR provided packaging of not more than 5 l / 5 kg	The product can be transported in accordance with IMDG Code paragraph 2.10.2.7, provided packaging not more than 5 l / 5 kg.	The product is not subject to any other provisions of IATA provided packaging of not more than 5 l / 5 kg (A197)
Limited Quantity	5 l	5 l	
Transport category	3		
14.5. Environmental hazards	-		
Tunnel restriction code	-		

SECTION 15: Regulatory information ***

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Restriction according to annex XVII to regulation (EU) No 1907/2006

The product is subject to restrictions according to Annex XVII Regulation (EU) No. 1907/2006: Entry No. 3

Ingredients with restrictions according to Annex XVII Regulation (EU) No. 1907/2006 ***

Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate

The product is subject to restrictions according to Annex XVII Regulation (EU) No. 1907/2006: Entry-No.



Trade name: FotoDent splint

Substance number: 9368

Version: 2 / GB

Date revised: 13.03.2026

Replaces Version: 1 / GB

Print date: 13.03.2026

75

Mixture of: 7,9,9-Trimethyl-3,14-dioxa-4,13-dioxo-5,12-di-azahexadecane-1,16-diyl-prop-2-enoate; 7,7,9-Trimethyl-3,14-dioxa-4,13-dioxo-5,12-diaazahexadecane-1,16-diylprop-2-enoate

The product is subject to restrictions according to Annex XVII Regulation (EU) No. 1907/2006: Entry-No. 75

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)

Skin Irrit. 2	H315	Calculation method
Eye Irrit. 2	H319	Calculation method
Skin Sens. 1A	H317	Calculation method
STOT SE 3	H335	Calculation method
Aquatic Chronic 2	H411	Calculation method

Hazard statements listed in Chapter 2/3

H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

CLP categories listed in Chapter 2/3

Acute Tox. 3	Acute toxicity, Category 3
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic, Category 3
Aquatic Chronic 4	Hazardous to the aquatic environment, chronic, Category 4
Eye Dam. 1	Serious eye damage, Category 1
Eye Irrit. 2	Eye irritation, Category 2
Skin Irrit. 2	Skin irritation, Category 2
Skin Sens. 1	Skin sensitization, Category 1
Skin Sens. 1A	Skin sensitization, Category 1A
STOT SE 3	Specific target organ toxicity - single exposure, Category 3

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.