

Trade name: FotoDent tray2

Substance number: S0016

Version: 2 / US

Replaces Version: 1 / US

Date revised: 14.10.2025

Print date: 14.10.2025

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

1.1. Product identifier

FotoDent tray2

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/preparation

Light curing material for production of dental impression tray

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 for this SDS sicherheitsdatenblatt@dreve.com

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 according to OSHA Hazard Communication Standard 29 CFR 1910:1200

Classification according to OSHA Hazard Communication Standard 29 CFR 1910:1200

Eye Dam. 1 H318

Skin Sens. 1A H317

2.2. Label elements

Labelling according to OSHA Hazard Communication Standard 29 CFR 1910:1200

Hazard pictograms



Signal word

Danger

Hazard statements

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

Precautionary statements



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Prevention

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
 P272 Contaminated work clothing should not be allowed out of the workplace.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response

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.
 P310 Immediately call a POISON CENTER or doctor.
 P333 If skin irritation or rash occurs:
 P362+P364 Take off contaminated clothing and wash it before reuse.

Storage/Disposal

P501.1 Dispose of contents/container to industrial incineration plant.

Hazardous component(s) to be indicated on label

contains 2-Propenoic acid, reaction products with pentaerythritol; Tetramethylene dimethacrylate; Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

2.3. Other hazards

No special hazards have to be mentioned.

SECTION 3: Composition/information on ingredients ***

3.2. Mixtures

Hazardous ingredients according to OSHA Hazard Communication Standard 29 CFR 1910:1200 ***

Tetramethylene dimethacrylate

CAS No.	2082-81-7				
Concentration	>=	1	<	10	%

2-Propenoic acid, reaction products with pentaerythritol

CAS No.	1245638-61-2				
Concentration	>=	3	<	10	%

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

CAS No.	162881-26-7				
Concentration	>=	1	<	10	%

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.



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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.

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



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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

Contains no substances with occupational exposure limit values.

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



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Do not inhale vapours; Use suitable respiratory protective device in case of insufficient ventilation

Hand protection

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.
 The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.
 Gloves should be replaced regularly and if there is any sign of damage to the glove material.
 Hand protection must comply with EN 374.
 Appropriate Material nitrile

Eye protection

Safety glasses

Body protection

Clothing as usual in the chemical industry.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	liquid		
Colour	Various, depending on coloration		
Odour	characteristic		
Odour threshold			
Remarks	not determined		
pH value			
Remarks	not determined		
Melting point			
Remarks	not determined		
Freezing point			
Remarks	not determined		
Initial boiling point and boiling range			
Value	211		°C
Flash point			
Value	> 100		°C
Method	closed cup		
Evaporation rate (ether = 1) :			
Remarks	not determined		
Flammability (solid, gas)			
not determined			
Upper/lower flammability or explosive limits			
Remarks	not determined		
Vapour pressure			
Remarks	not determined		
Vapour density			
Remarks	not determined		
Density			
Value	1,09		g/cm ³
Temperature	20	°C	



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Solubility in water

Remarks virtually insoluble

Solubility(ies)

Remarks not determined

Partition coefficient: n-octanol/water

Remarks not determined

Auto-ignition temperature

Remarks not determined

Decomposition temperature

Remarks not determined

Viscosity

Remarks not determined

Explosive properties

evaluation not determined

Oxidising properties

Remarks not determined

9.2. Other information

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

Decomposition temperature

Remarks not determined

10.5. Incompatible materials

None known

10.6. Hazardous decomposition products

Irritant gases/vapours

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity



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ATE	>	10.000	mg/kg
Method	calculated value according to GHS (e.g see UN GHS)		
ATE	>	2.000	mg/kg
Method	calculated value according to GHS (e.g see UN GHS)		
Remarks	Based on available data, the classification criteria are not met.		

Acute oral toxicity (Components)

2-Propenoic acid, reaction products with pentaerythritol

Species	rat		
LD50	>	540	mg/kg
Method	OECD 401		

Tetramethylene dimethacrylate

Species	rat		
LD50	>	10066	mg/kg
Method	OECD 401		

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

Species	rat		
LD50	>	2000	mg/kg
Method	OECD 401		

Acute dermal toxicity

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

Acute dermal toxicity (Components)

2-Propenoic acid, reaction products with pentaerythritol

Species	rabbit		
LD50	>	2000	mg/kg
Method	OECD 402		

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

Species	rat		
LD50	>	2000	mg/kg
Method	OECD 402		

Tetramethylene dimethacrylate

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

Acute inhalational toxicity

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

Skin corrosion/irritation

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

Skin corrosion/irritation (Components)

2-Propenoic acid, reaction products with pentaerythritol

Species	rabbit		
evaluation	irritant		
Method	OECD 404		

Serious eye damage/irritation

evaluation	corrosive		
Remarks	The classification criteria are met.		

Serious eye damage/irritation (Components)

2-Propenoic acid, reaction products with pentaerythritol

Species	rabbit		
evaluation	corrosive		
Method	OECD 405		



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Sensitization

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

Sensitization (Components)

2-Propenoic acid, reaction products with pentaerythritol

Species guinea pig
evaluation non-sensitizing
Method OECD 406

2-Propenoic acid, reaction products with pentaerythritol

Species Human
evaluation Possible sensitization potential with human beings.

Tetramethylene dimethacrylate

Route of exposure dermal
Species mouse
evaluation sensitizing
Method OECD 429

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

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

Subacute, subchronic, chronic toxicity

Remarks not determined

Mutagenicity

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

Reproductive toxicity

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

Carcinogenicity

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

National Toxicology Program (NTP)

No component of this product present at levels greater than or equal to 0,1% is identified as a known or reasonably anticipated to be human carcinogen by NTP

International Agency for research on Cancer (IARC)

No component of this product present at levels greater than or equal to 0,1% is identified as probable, possible or confirmed human carcinogen by IARC

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.

Aspiration hazard

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

Experience in practice

Inhalation may lead to irritation of the respiratory tract.

Other information

No toxicological data are available.



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SECTION 12: Ecological information

12.1. Toxicity

General information

not determined

Fish toxicity (Components)

2-Propenoic acid, reaction products with pentaerythritol

Species	carp (<i>Cyprinus carpio</i>)	
LC50	3,2	mg/l
Duration of exposure	96	h
Method	OECD 203	

Tetramethylene dimethacrylate

Species	zebra fish (<i>Brachydanio rerio</i>)	
LC50	3,34	mg/l
Duration of exposure	96	h
Method	OECD 203	

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

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

Daphnia toxicity (Components)

2-Propenoic acid, reaction products with pentaerythritol

Species	Daphnia magna	
EC50	13	mg/l
Duration of exposure	48	h
Method	OECD 202	

Tetramethylene dimethacrylate

Species	Daphnia magna	
NOEC	5,09	mg/l
Duration of exposure	21	d
Method	OECD 211	

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

Species	Daphnia magna	
EC50	> 1175	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	

Algae toxicity (Components)

2-Propenoic acid, reaction products with pentaerythritol

Species	<i>Pseudokirchneriella subcapitata</i>	
EL50	33	mg/l
Duration of exposure	96	h
Method	OECD 201	

Tetramethylene dimethacrylate

Species	<i>Scenedesmus subspicatus</i>	
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EC50	9,79		mg/l
Duration of exposure	72	h	
Method	OECD 201		

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

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

Bacteria toxicity (Components)

2-Propenoic acid, reaction products with pentaerythritol

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

Tetramethylene dimethacrylate

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

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

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

12.2. Persistence and degradability

General information

not determined

Biodegradability (Components)

2-Propenoic acid, reaction products with pentaerythritol

Value	6	to	14	%
Duration of test evaluation	28	d		
	not readily degradable			

Tetramethylene dimethacrylate

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

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

Value	1	%
Duration of test evaluation	28	d
	not degradable	

12.3. Bioaccumulative potential

General information

not determined

Partition coefficient: n-octanol/water

Remarks not determined

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

2-Propenoic acid, reaction products with pentaerythritol

log Pow	3,11
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Tetramethylene dimethacrylate

log Pow	3,1
Temperature	20 °C



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Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide
log Pow 5,8

12.4. Mobility in soil

General information

not determined

12.5. Results of PBT and vPvB assessment

General information

not determined

Evaluation of persistence and bioaccumulation potential

The product contains no PBT substances
The product contains no vPvB substances.

12.6. 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 ***

	Ground transport DOT ***	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		-	-



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SECTION 15: Regulatory information

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

Other information

All components are contained in the TSCA inventory or exempted.

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355)

The product does not contain any listed components.

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required

The product does not contain any listed components.

California Safe Drinking Water and Toxic Enforcement Act (Proposition 65)

Warning! This product may contain trace quantities of substance(s) known to the state of California to cause cancer and/or reproductive toxicity – not added as a part of the formulation but remaining as residuals from the manufacturing process of our raw material suppliers.

SECTION 16: Other information

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.