

Material Safety Data Sheet Cover-Sheet – This page provides additional New Zealand specific information for this product and must be read in conjunction with the Safety Data Sheet (SDS) attached

Product Name: FotoDent tray2

Manufacturer: Dreve Dentamid GmbH

SDS Expiry: 22 May 2028

Supplier Details: Henry Schein New Zealand  
243-249 Bush Road, Rosedale, Auckland, 0632  
PO Box 101 140, North Shore, Auckland 0745  
Ph. 0800 808 855  
[www.henryschein.co.nz](http://www.henryschein.co.nz)

Emergency Contacts: Poisons/Hazardous Chemical Info Centre –  
0800POISON/0800764766 (24 Hours)  
Phone 111 for Fire, Ambulance or Police

HSNO Class/Category: 6 / 9

HSNO Group Standard: Dental Products Subsidiary Hazard Group Standard 2020  
HSR002558

Statements/Pictograms: As per attached Safety Data Sheet (SDS)

Date Prepared: This coversheet was prepared – July 2023

This SDS coversheet has been produced by Henry Schein NZ and has been prepared in accordance with NZ EPA advice on making overseas SDS compliant to HSNO Act. The above information is based on the present state of our knowledge of the product at the time of publication. It is given in good faith, no warranty is implied with respect to the quality or the specifications of the product. Users must satisfy that the product is entirely suitable for their purpose. The SDS and this coversheet may be revised from time to time, please ensure you have a current copy.

Trade name: FotoDent tray2

Substance number: S0016

Version: 1 / GB

Date revised: 22.05.2023

Replaces Version: - / GB

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## 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

59423 Unna

Telephone no.

+49 2303 8807-0

Fax no.

+49 2303 8807-29

Information provided

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

by / telephone

E-mail address of

sicherheitsdatenblatt@dreve.com

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)

Eye Dam. 1 H318

Skin Sens. 1A H317

Aquatic Chronic 3 H412

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

Danger



Trade name: FotoDent tray2

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**Hazard statements**

H318 Causes serious eye damage.  
 H317 May cause an allergic skin reaction.  
 H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
 P273 Avoid release to the environment.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P310 Immediately call a POISON CENTER or doctor.  
 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-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.

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****Bisphenol A, ethoxylated, dimethacrylate**

CAS No. 41637-38-1  
 EINECS no. 609-946-4  
 Registration no. 01-2119980659-17  
 Concentration  $\geq$  50 %  
 Classification (Regulation (EC) No. 1272/2008)  
 Aquatic Chronic 4 H413

**Tetramethylene dimethacrylate**

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

**2-Propenoic acid, reaction products with pentaerythritol**

CAS No. 1245638-61-2  
 EINECS no. 629-850-6  
 Registration no. 01-2119490003-49  
 Concentration  $\geq$  3 < 10 %  
 Classification (Regulation (EC) No. 1272/2008)  
 Acute Tox. 4 H302  
 Skin Irrit. 2 H315



Trade name: FotoDent tray2

Substance number: S0016

Version: 1 / GB

Date revised: 22.05.2023

Replaces Version: - / GB

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|                   |      |
|-------------------|------|
| Eye Dam. 1        | H318 |
| Skin Sens. 1      | H317 |
| Aquatic Chronic 2 | H411 |

ATE oral 540 mg/kg

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

CAS No. 162881-26-7

EINECS no. 423-340-5

Registration no. 01-2119489401-38

Concentration &gt;= 1 &lt; 10 %

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

Skin Sens. 1A H317

Aquatic Chronic 4 H413

**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, CO<sub>2</sub>, powders, water spray/mist, Extinguishing measures to suit

Trade name: FotoDent tray2

Substance number: S0016

Version: 1 / GB

Date revised: 22.05.2023

Replaces Version: - / GB

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surroundings

**Non suitable extinguishing media**

Full water jet

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

In case of combustion evolution of dangerous gases possible.

**5.3. Advice for firefighters****Special protective equipment for fire-fighting**

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

**Other information**

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

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

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

**6.2. Environmental precautions**

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

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

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

**6.4. Reference to other sections**

Refer to protective measures listed in Sections 7 and 8.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

Provide good ventilation of working area (local exhaust ventilation if necessary). Avoid formation of 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**



Trade name: FotoDent tray2

Substance number: S0016

Version: 1 / GB

Date revised: 22.05.2023

Replaces Version: - / GB

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**Requirements for storage rooms and vessels**

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

**Hints on storage assembly**

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

**Further information on storage conditions**

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

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

Contains no substances with occupational exposure limit values.

**Derived No/Minimal Effect Levels (DNEL/DMEL)****Tetramethylene dimethacrylate**

|                      |                                |                   |
|----------------------|--------------------------------|-------------------|
| Type of value        | Derived No Effect Level (DNEL) |                   |
| Reference group      | Worker                         |                   |
| Duration of exposure | Long term                      |                   |
| Route of exposure    | inhalative                     |                   |
| Mode of action       | Systemic effects               |                   |
| Concentration        | 14,5                           | mg/m <sup>3</sup> |
| Type of value        | Derived No Effect Level (DNEL) |                   |
| Reference group      | Worker                         |                   |
| Duration of exposure | Long term                      |                   |
| Route of exposure    | dermal                         |                   |
| Mode of action       | Systemic effects               |                   |
| Concentration        | 4,2                            | mg/kg/d           |
| Type of value        | Derived No Effect Level (DNEL) |                   |
| Reference group      | Consumer                       |                   |
| Duration of exposure | Long term                      |                   |
| Route of exposure    | inhalative                     |                   |
| Mode of action       | Systemic effects               |                   |
| Concentration        | 4,3                            | mg/m <sup>3</sup> |
| Type of value        | Derived No Effect Level (DNEL) |                   |
| Reference group      | Consumer                       |                   |
| Duration of exposure | Long term                      |                   |
| Route of exposure    | oral                           |                   |
| Mode of action       | Systemic effects               |                   |
| Concentration        | 2,5                            | mg/kg             |
| Type of value        | Derived No Effect Level (DNEL) |                   |
| Reference group      | Consumer                       |                   |
| Duration of exposure | Long term                      |                   |
| Route of exposure    | dermal                         |                   |
| Mode of action       | Systemic effects               |                   |
| Concentration        | 2,5                            | mg/kg             |

Trade name: FotoDent tray2

Substance number: S0016

Version: 1 / GB

Date revised: 22.05.2023

Replaces Version: - / GB

Print date: 22.05.2023

**Bisphenol A, ethoxylated, dimethacrylate**

|                      |                                |                   |
|----------------------|--------------------------------|-------------------|
| Type of value        | Derived No Effect Level (DNEL) |                   |
| Reference group      | Worker                         |                   |
| Duration of exposure | Long term                      |                   |
| Route of exposure    | inhalative                     |                   |
| Mode of action       | Systemic effects               |                   |
| Concentration        | 3,52                           | mg/m <sup>3</sup> |

|                      |                                |       |
|----------------------|--------------------------------|-------|
| Type of value        | Derived No Effect Level (DNEL) |       |
| Reference group      | Worker                         |       |
| Duration of exposure | Long term                      |       |
| Route of exposure    | dermal                         |       |
| Mode of action       | Systemic effects               |       |
| Concentration        | 2                              | mg/kg |

|                      |                                |                   |
|----------------------|--------------------------------|-------------------|
| 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        | 0,87                           | mg/m <sup>3</sup> |

|                      |                                |       |
|----------------------|--------------------------------|-------|
| Type of value        | Derived No Effect Level (DNEL) |       |
| Reference group      | Consumer                       |       |
| Duration of exposure | Long term                      |       |
| Route of exposure    | dermal                         |       |
| Mode of action       | Systemic effects               |       |
| Concentration        | 1                              | mg/kg |

|                      |                                |       |
|----------------------|--------------------------------|-------|
| 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        | 0,5                            | mg/kg |

**Predicted No Effect Concentration (PNEC)****2-Propenoic acid, reaction products with pentaerythritol**

|               |            |      |
|---------------|------------|------|
| Type of value | PNEC       |      |
| Type          | Freshwater |      |
| Concentration | 0,0032     | mg/l |

|               |           |      |
|---------------|-----------|------|
| Type of value | PNEC      |      |
| Type          | Saltwater |      |
| Concentration | 0,0003    | mg/l |

|               |                              |      |
|---------------|------------------------------|------|
| Type of value | PNEC                         |      |
| Type          | Water (intermittent release) |      |
| Concentration | 0,032                        | mg/l |

|               |                     |       |
|---------------|---------------------|-------|
| Type of value | PNEC                |       |
| Type          | Freshwater sediment |       |
| Concentration | 0,151               | mg/kg |

|               |                 |  |
|---------------|-----------------|--|
| Type of value | PNEC            |  |
| Type          | Marine sediment |  |



Trade name: FotoDent tray2

Substance number: S0016

Version: 1 / GB

Date revised: 22.05.2023

Replaces Version: - / GB

Print date: 22.05.2023

|               |        |       |
|---------------|--------|-------|
| Concentration | 0,0151 | mg/kg |
|---------------|--------|-------|

|               |                              |      |
|---------------|------------------------------|------|
| Type of value | PNEC                         |      |
| Type          | Sewage treatment plant (STP) |      |
| Concentration | 10                           | mg/l |

|               |        |       |
|---------------|--------|-------|
| Type of value | PNEC   |       |
| Type          | Soil   |       |
| Concentration | 0,0283 | mg/kg |

**Tetramethylene dimethacrylate**

|               |            |      |
|---------------|------------|------|
| Type of value | PNEC       |      |
| Type          | Freshwater |      |
| Concentration | 0,043      | mg/l |

|               |           |      |
|---------------|-----------|------|
| Type of value | PNEC      |      |
| Type          | Saltwater |      |
| Concentration | 0,004     | mg/l |

|               |                              |      |
|---------------|------------------------------|------|
| Type of value | PNEC                         |      |
| Type          | Water (intermittent release) |      |
| Concentration | 0,098                        | mg/l |

|               |                              |      |
|---------------|------------------------------|------|
| Type of value | PNEC                         |      |
| Type          | Sewage treatment plant (STP) |      |
| Concentration | 2                            | mg/l |

|               |                     |       |
|---------------|---------------------|-------|
| Type of value | PNEC                |       |
| Type          | Freshwater sediment |       |
| Concentration | 3,12                | mg/kg |

|               |                 |       |
|---------------|-----------------|-------|
| Type of value | PNEC            |       |
| Type          | Marine sediment |       |
| Concentration | 0,312           | mg/kg |

|               |       |       |
|---------------|-------|-------|
| Type of value | PNEC  |       |
| Type          | Soil  |       |
| Concentration | 0,573 | mg/kg |

**8.2. Exposure controls****General protective and hygiene measures**

Do not smoke during work time. Hold emergency shower available. Hold eye wash fountain available. Do not inhale gases/vapours/aerosols. Avoid contact with skin and eyes. Take off immediately all contaminated clothing. Do not eat or drink during work time. Storage of foodstuffs in work rooms is forbidden. Wash hands before breaks and after work. Clean skin thoroughly after work; apply skin cream.

**Respiratory protection**

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

**Hand protection**

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

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

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





Trade name: FotoDent tray2

Substance number: S0016

Version: 1 / GB

Date revised: 22.05.2023

Replaces Version: - / GB

Print date: 22.05.2023

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**

|   |                                  |    |                   |
|---|----------------------------------|----|-------------------|
| <b>Physical state</b>   | liquid                           |    |                   |
| <b>Colour</b>   | Various, depending on coloration |    |                   |
| <b>Odour</b>  | characteristic                   |    |                   |
| <b>Melting point</b>  |                                  |    |                   |
| Remarks   | not determined                   |    |                   |
| <b>Freezing point</b>   |                                  |    |                   |
| Remarks   | not determined                   |    |                   |
| <b>Boiling point or initial boiling point and boiling range</b> |                                  |    |                   |
| Value   | 211                              |    | °C                |
| <b>Flammability</b>   |                                  |    |                   |
| evaluation  | not determined                   |    |                   |
| <b>Upper and lower explosive limits</b>                         |                                  |    |                   |
| Remarks   | not determined                   |    |                   |
| <b>Flash point</b>  |                                  |    |                   |
| Value   | > 100                            |    | °C                |
| Method  | closed cup                       |    |                   |
| <b>Ignition temperature</b>                                     |                                  |    |                   |
| Remarks   | not determined                   |    |                   |
| <b>Decomposition temperature</b>                                |                                  |    |                   |
| Remarks   | not determined                   |    |                   |
| <b>pH value</b>   |                                  |    |                   |
| Remarks   | not determined                   |    |                   |
| <b>Viscosity</b>  |                                  |    |                   |
| Remarks   | not determined                   |    |                   |
| <b>Solubility(ies)</b>  |                                  |    |                   |
| Remarks   | not determined                   |    |                   |
| <b>Partition coefficient n-octanol/water (log value)</b>        |                                  |    |                   |
| Remarks   | not determined                   |    |                   |
| <b>Vapour pressure</b>  |                                  |    |                   |
| Remarks   | not determined                   |    |                   |
| <b>Density and/or relative density</b>                          |                                  |    |                   |
| Value   | 1,09                             |    | g/cm <sup>3</sup> |
| Temperature   | 20                               | °C |                   |
| <b>Relative vapour density</b>                                  |                                  |    |                   |
| Remarks   | not determined                   |    |                   |



Trade name: FotoDent tray2

Substance number: S0016

Version: 1 / GB

Date revised: 22.05.2023

Replaces Version: - / GB

Print date: 22.05.2023

**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 (Regulation (EC) No. 1272/2008) |        |       |

**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 |



Trade name: FotoDent tray2

Substance number: S0016

Version: 1 / GB

Date revised: 22.05.2023

Replaces Version: - / GB

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Method OECD 401

**Bisphenol A, ethoxylated, dimethacrylate**Species rat  
LD50 > 2000 mg/kg**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**Bisphenol A, ethoxylated, dimethacrylate**Species rat  
LD50 > 2000 mg/kg  
Method OECD 402**Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide**Species rat  
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**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



Trade name: FotoDent tray2

Substance number: S0016

Version: 1 / GB

Date revised: 22.05.2023

Replaces Version: - / GB

Print date: 22.05.2023

|            |   |
|------------|---|
| 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. |
|---------|---|

**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.

**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)****2-Propenoic acid, reaction products with pentaerythritol**

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



Trade name: FotoDent tray2

Substance number: S0016

Version: 1 / GB

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Replaces Version: - / GB

Print date: 22.05.2023

**Tetramethylene dimethacrylate**

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

**Bisphenol A, ethoxylated, dimethacrylate**

|         |  |      |
|---------|--|------|
| Species | rainbow trout ( <i>Oncorhynchus mykiss</i> ) |      |
| LC50    | > 100  | mg/l |
| Remarks | Test conducted with a similar formulation.   |      |

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

**Bisphenol A, ethoxylated, dimethacrylate**

|                      |  |      |
|----------------------|--|------|
| Species              | Daphnia magna                              |      |
| EC50                 | > 100                                      | mg/l |
| Duration of exposure | 48   | h    |
| Remarks              | Test conducted with a similar formulation. |      |

**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              | Pseudokirchneriella subcapitata |      |
| EL50                 | 33                              | mg/l |
| Duration of exposure | 96                              | h    |
| Method               | OECD 201                        |      |

**Tetramethylene dimethacrylate**

|                      |                         |      |
|----------------------|-------------------------|------|
| Species              | Scenedesmus subspicatus |      |
| EC50                 | 9,79                    | mg/l |
| Duration of exposure | 72                      | h    |
| Method               | OECD 201                |      |

**Bisphenol A, ethoxylated, dimethacrylate**



Trade name: FotoDent tray2

Substance number: S0016

Version: 1 / GB

Date revised: 22.05.2023

Replaces Version: - / GB

Print date: 22.05.2023

|                      |  |      |
|----------------------|--|------|
| Species              | Pseudokirchneriella subcapitata            |      |
| EC50                 | > 100                                      | mg/l |
| Duration of exposure | 72   | h    |
| Method               | OECD 201                                   |      |
| Remarks              | Test conducted with a similar formulation. |      |

**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    |

**Bisphenol A, ethoxylated, dimethacrylate**

|                      |  |      |
|----------------------|--|------|
| Species              | activated sludge                           |      |
| NOEC                 | 14,3                                       | mg/l |
| Duration of exposure | 28   | d    |
| Remarks              | Test conducted with a similar formulation. |      |

**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) |   |

**Bisphenol A, ethoxylated, dimethacrylate**

|                             |  |   |
|-----------------------------|--|---|
| Value                       | 24   | % |
| Duration of test evaluation | 28   | d |
|                             | readily degradable                         |   |
| Remarks                     | Test conducted with a similar formulation. |   |

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

|                             |                |   |
|-----------------------------|----------------|---|
| Value                       | 1              | % |
| Duration of test evaluation | 28             | d |
|                             | not degradable |   |

Trade name: FotoDent tray2

Substance number: S0016

Version: 1 / GB

Date revised: 22.05.2023

Replaces Version: - / GB

Print date: 22.05.2023

### 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)

##### 2-Propenoic acid, reaction products with pentaerythritol

log Pow 3,11

##### Tetramethylene dimethacrylate

log Pow 3,1  
Temperature 20 °C

##### Bisphenol A, ethoxylated, dimethacrylate

log Pow 4,39

##### 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

#### 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.



Trade name: FotoDent tray2

Substance number: S0016

Version: 1 / GB

Date revised: 22.05.2023

Replaces Version: - / GB

Print date: 22.05.2023

**SECTION 14: Transport information**

|   | Land transport ADR/RID   | Marine transport IMDG/GGVSee  | Air transport ICAO/IATA   |
|---|--|---|---|
| <b>14.1. UN number or ID number</b>     | 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. |
| <b>14.2. UN proper shipping name</b>    | -  | -   | -   |
| <b>14.3. Transport hazard class(es)</b> |  | -   | -   |
| Label                                   |  |   |   |
| <b>14.4. Packing group</b>              |  | -   | -   |

**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****Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:**

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

|                   |      |                    |
|-------------------|------|--------------------|
| Eye Dam. 1        | H318 | Calculation method |
| Skin Sens. 1A     | H317 | Calculation method |
| Aquatic Chronic 3 | H412 | Calculation method |

**Hazard statements listed in Chapter 2/3**

|      |   |
|------|---|
| H302 | Harmful if swallowed.                                   |
| H315 | Causes skin irritation.                                 |
| H317 | May cause an allergic skin reaction.                    |
| H318 | Causes serious eye damage.                              |
| 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. 4      | Acute toxicity, Category 4                                |
| 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                            |
| Skin Irrit. 2     | Skin irritation, Category 2                               |
| Skin Sens. 1      | Skin sensitization, Category 1                            |
| Skin Sens. 1A     | Skin sensitization, Category 1A                           |





Trade name: FotoDent tray2

Substance number: S0016

Version: 1 / GB

Replaces Version: - / GB

Date revised: 22.05.2023

Print date: 22.05.2023

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.