Safety Data Sheet acc. to OSHA HCS



Printing date 02/28/2022

Reviewed on 02/28/2022

1 Identification

· Product identifier

· Trade name: FotoDent tray 385/405 nm

· Application of the substance / the mixture Material based on methacrylate resin for DLP-systems for the manufacturing of custom trays

- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

Dreve Dentamid GmbH Max-Planck-Straße 31 59423 Unna / Germany Tel.: +49 2303 / 8807-0 Fax.:+49 2303 / 8807-55

- · Information department: Department Research & Development Fax.: +49 2303 8807-562 Email: sicherheitsdatenblatt@dreve.de
- · Emergency telephone number: Tel.: +49 211 797-3350 Plant Fire Department Henkel

2 Hazard(s) identification

· Classification of the substance or mixture



Eye Dam. 1 H318 Causes serious eye damage.



Skin Sens. 1 H317 May cause an allergic skin reaction.

- · Label elements
- · GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms



· Signal word Danger

- · Hazard-determining components of labeling: 2-Propenoic acid, reaction product with Pentaerythrite 1,4 Butanediol dimethacrylate phenyl bis(2,4,6-trimethylbenzoyl)-phosphineoxide Pigment paste · Hazard statements
- Causes serious eye damage. May cause an allergic skin reaction.
- **Precautionary statements** Avoid breathing dust/fume/gas/mist/vapors/spray

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Trade name: FotoDent tray 385/405 nm

(Contd. of page 1)

Wear protective gloves / eye protection / face protection. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a poison center/doctor.

Wash contaminated clothing before reuse.

Dispose of contents/container in accordance with local/regional/national/international regulations. Classification system:

· NFPA ratings (scale 0 - 4)

Health = 3

Fire = 1Reactivity = 0

· HMIS-ratings (scale 0 - 4)



· Other hazards

- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Description: Mixture of the substances listed below with nonhazardous additions.

| Dangerous co | omponents: | |
|----------------------------------|----------------------------------------------------------------------------|---------|
| | Acrylic resin | 10-25% |
| 2082-81-7 | 1,4 Butanediol dimethacrylate | 2.5-10% |
| 1245638-61-2 | 2-Propenoic acid, reaction product with Pentaerythrite | 2.5-10% |
| 162881-26-7 | phenyl bis(2,4,6-trimethylbenzoyl)-phosphineoxide | ≤2.5% |
| | Pigment paste | ≤2.5% |
| Additional inf | ermetion. For the wording of the listed bezord phrases refer to eastion 16 | |

Additional information: For the wording of the listed hazard phrases refer to section 16.

4 First-aid measures

- · Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- · After inhalation:
- Supply fresh air and to be sure call for a doctor.
- In case of unconsciousness place patient stably in side position for transportation.
- · After skin contact:
- Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

- · After eye contact:
- Rinse opened eye for several minutes under running water. Then consult a doctor.

· After swallowing:

Do not induce vomiting. Call a doctor immediately.

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- · Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Use fire fighting measures that suit the environment.

- · For safety reasons unsuitable extinguishing agents: Water with full jet
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

| Personal precautions, protective equipment and emergency procedures Avoid contact with skin and eyes. Wear protective equipment. Keep unprotected persons away. Environmental precautions: Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water. Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sat Use neutralizing agent. Dispose contaminated material as waste according to item 13. Ensure adequate ventilation. Reference to other sections See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information. | wdust). |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Protective Action Criteria for Chemicals | |
| · PAC-1: | |
| 79-10-7 acrylic acid | 1.5 ppm |
| · PAC-2: | |
| 79-10-7 acrylic acid | 46 ppm |
| PAC-3: | |
| 79-10-7 acrylic acid | 180 ppm |

7 Handling and storage

- · Handling:
- · Precautions for safe handling

Avoid contact with skin and eyes.

Ensure good ventilation/exhaustion at the workplace.

(Contd. on page 4)

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Trade name: FotoDent tray 385/405 nm

(Contd. of page 3)

Prevent formation of aerosols.

- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities

· Storage:

- Requirements to be met by storerooms and receptacles: Protect from heat and direct sunlight.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

- At this time, the other constituents have no known exposure limits.
- · Additional information: The lists that were valid during the creation were used as basis.

· Exposure controls

- · Personal protective equipment:
- · General protective and hygienic measures:
- Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

• Breathing equipment: Do not inhale fumes.

Use suitable respiratory protective device in case of insufficient ventilation.

· Protection of hands:



Protective gloves

Protective gloves should be changed regularly, especially after intensive contact with the product. For every workplace a suitable type of protective gloves must be selected.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Material of gloves

Nitrile rubber, NBR

As there are many different conditions in every day work these indications can only serve as an aid to orientation for the selection of suitable gloves for the handling of chemical products. By no means they can replace qualifying examinations by the end-user.

These recommendations only apply to the product mentioned in the safety data sheet. When mixing with other substances or under conditions deviant from norm EN 374 a manufacturer of CE-approved gloves should be referred to.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

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· Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

· Eye protection:



Tightly sealed goggles

· Body protection: Protective work clothing

9 Physical and chemical properties

| Odor threshold: Not determined. pH-value: Not determined. Change in condition Image: Undetermined. Melting point/Boiling range: >100 °C (>212 °F) Flash point: 91 °C (195.8 °F) Flammability (solid, gaseous): Not applicable. Ignition temperature: 235 °C (455 °F) Decomposition temperature: Not determined. Auto igniting: Product is not selfigniting. Danger of explosion: Product does not present an explosion hazard. Explosion limits: Lower: Lower: Not determined. Upper: Not determined. Oxidizing properties Not determined. Vapor pressure: Not determined. Vapor density Not determined. Solubility in / Miscibility with Not determined. Water: Not miscible or difficult to mix. | General Information Appearance: | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|-----------------------------------------------|
| Color:Different according to coloringOdor:CharacteristicOdor threshold:Not determined.PH-value:Not determined.PH-value:Not determined.Change in conditionUndetermined.Melting point/Beiling range:>100 °C (>212 °F)Flash point:91 °C (195.8 °F)Flammability (solid, gaseous):Not applicable.Ignition temperature:235 °C (455 °F)Decomposition temperature:Not determined.Auto igniting:Product is not selfigniting.Danger of explosion:Product does not present an explosion hazard.Explosion limits:Lower:Lower:Not determined.Vapper:Not determined.Vapper:Not determined.Ordizing propertiesNot determined.Vapor pressure:Not determined.Vapor densityNot determined.Vapor densityNot determined.Vapor densityNot determined.Solubility in / Miscibility with Water:Not miscible or difficult to mix. | • • | Fluid |
| Odor:CharacteristicOdor threshold:Not determined.PH-value:Not determined.• Change in condition Melting point/Melting range: Boiling point/Boiling range:Undetermined. >>100 °C (>212 °F)• Flash point:91 °C (195.8 °F)• Flammability (solid, gaseous):Not applicable.• Ignition temperature:235 °C (455 °F)• Decomposition temperature:Not determined.• Auto igniting:Product is not selfigniting.• Danger of explosion:Product does not present an explosion hazard.• Explosion limits: Lower: Upper:Not determined.• Oxidizing propertiesNot determined.• Vapor pressure:Not determined.• Vapor densityNot determined.• Vapor densityNot determined.• Vapor densityNot determined.• Solubility in / Miscibility with Water:Not miscible or difficult to mix. | - | |
| pH-value: Not determined. Change in condition Melting point/Melting range: Undetermined. Boiling point/Boiling range: >100 °C (>212 °F) Flash point: 91 °C (195.8 °F) Flammability (solid, gaseous): Not applicable. Ignition temperature: 235 °C (455 °F) Decomposition temperature: Not determined. Auto igniting: Product is not selfigniting. Danger of explosion: Product does not present an explosion hazard. Explosion limits: Lower: Not determined. Oxidizing properties Not determined. Vapor pressure: Not determined. Vapor pressure: Not determined. Vapor density Not determined. Vapor density Not determined. Solubility in / Miscibility with Water: Not miscible or difficult to mix. | · Odor: | |
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| • Flash point: 91 °C (195.8 °F) • Flammability (solid, gaseous): Not applicable. • Ignition temperature: 235 °C (455 °F) • Decomposition temperature: Not determined. • Auto igniting: Product is not selfigniting. • Danger of explosion: Product does not present an explosion hazard. • Explosion limits: Lower: Lower: Not determined. Upper: Not determined. • Oxidizing properties Not determined. • Vapor pressure: Not determined. • Vapor pressure: Not determined. • Vapor density Not determined. • Vapor density Not determined. • Solubility in / Miscibility with Not determined. • Solubility in / Miscibility with Not miscible or difficult to mix. | | Undetermined. |
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| Lower: Upper:Not determined.Vapor pressure:Not determined Not applicable.· Vapor pressure:Not determined.· Density at 20 °C (68 °F):1.1 g/cm³ (9.1795 lbs/gal)· Relative densityNot determined.· Vapor densityNot determined.· Solubility in / Miscibility with Water:Not miscible or difficult to mix. | · Danger of explosion: | Product does not present an explosion hazard. |
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| • Oxidizing propertiesNot determined Not applicable.• Vapor pressure:Not determined.• Density at 20 °C (68 °F):1.1 g/cm³ (9.1795 lbs/gal)• Relative densityNot determined.• Vapor densityNot determined.• Vapor densityNot determined.• Evaporation rateNot determined.• Solubility in / Miscibility with Water:Not miscible or difficult to mix. | | |
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| • Relative density Not determined. • Vapor density Not determined. • Evaporation rate Not determined. • Solubility in / Miscibility with Water: Not miscible or difficult to mix. | · Vapor pressure: | Not determined. |
| · Vapor density Not determined. · Evaporation rate Not determined. · Solubility in / Miscibility with Water: Not miscible or difficult to mix. | | |
| • Evaporation rate Not determined. • Solubility in / Miscibility with Water: Not miscible or difficult to mix. | | |
| Solubility in / Miscibility with Water: Not miscible or difficult to mix. | | |
| Water: Not miscible or difficult to mix. | · Evaporation rate | Not determined. |
| | | |
| Partition coefficient (n-octanol/water): Not determined. | Water: | Not miscible or difficult to mix. |
| | · Partition coefficient (n-octanol/wat | er): Not determined. |

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| | | (Contd. of page |
|---------------------------------------|--------------------------------------------|-----------------|
| · Viscosity: | | |
| Dynamic: | Not determined. | |
| Kinematic: | Not determined. | |
| · Solvent content: | | |
| Solids content: | 0.0 % | |
| Other information | No further relevant information available. | |

10 Stability and reactivity

• Reactivity No dangerous reactions if used according to specifications

- Chemical stability Stable if used according to specifications • Thermal decomposition / conditions to be avoided:
- Protect from heat and direct sunlight.

No decomposition if used according to specifications.

- Possibility of hazardous reactions No dangerous reactions known.
- Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

· LD/LC50 values that are relevant for classification:

1245638-61-2 2-Propenoic acid, reaction product with Pentaerythrite

| | - | |
|--------|------|-----------------------|
| Oral | LD50 | >2,000 mg/kg (rat) |
| Dermal | LD50 | >2,000 mg/kg (rabbit) |
| | | |

Inhalative LC50/4 h >5 mg/l (rat)

· Primary irritant effect:

- on the skin: Irritant to skin and mucous membranes.
- on the eye: Strong irritant with the danger of severe eye injury.
- Sensitization: Sensitization possible through skin contact.

- Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

79-10-7 acrylic acid

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

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US



Trade name: FotoDent tray 385/405 nm

(Contd. of page 6)

12 Ecological information

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- **Bioaccumulative potential** No further relevant information available.
- Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- · Remark: Harmful to fish
- · Additional ecological information:
- · General notes:

Do not allow product to reach ground water, water course or sewage system. Must not reach bodies of water or drainage ditch undiluted or unneutralized. Danger to drinking water if even small quantities leak into the ground. Harmful to aquatic organisms

- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

· Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Disposal must be made according to official regulations.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

14 Transport information

| · UN-Number · DOT, ADR, ADN, IMDG, IATA | Void | |
|--------------------------------------------------------------------------------|--------------------------|-----------------|
| UN proper shipping name DOT, ADR, ADN, IMDG, IATA | Void | |
| Transport hazard class(es) | | |
| · DOT, ADR, ADN, IMDG, IATA · Class | Void | |
| Packing group DOT, ADR, IMDG, IATA | Void | |
| Environmental hazards: Marine pollutant: | No | |
| · Special precautions for user | Not applicable. | |
| Transport in bulk according to Annex MARPOL73/78 and the IBC Code | II of Not applicable. | |
| | | (Contd. on page |

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Trade name: FotoDent tray 385/405 nm

· UN "Model Regulation":

Void

15 Regulatory information

- \cdot Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Sara

| · Section 355 (extremely hazardous substances): | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| None of the ingredient is listed. | |
| · Section 313 (Specific toxic chemical listings): | |
| 79-10-7 acrylic acid | |
| • TSCA (Toxic Substances Control Act): All ingredients are listed. | |
| · Hazardous Air Pollutants | |
| All ingredients are listed. | |
| · Proposition 65 | |
| · Chemicals known to cause cancer: | |
| None of the ingredients is listed. | |
| · Chemicals known to cause reproductive toxicity for females: | |
| None of the ingredients is listed. | |
| · Chemicals known to cause reproductive toxicity for males: | |
| None of the ingredients is listed. | |
| · Chemicals known to cause developmental toxicity: | |
| None of the ingredients is listed. | |
| · Cancerogenity categories | |
| · EPA (Environmental Protection Agency) | |
| None of the ingredients is listed. | |
| TLV (Threshold Limit Value established by ACGIH) | |
| 79-10-7 acrylic acid | A4 |
| · MAK (German Maximum Workplace Concentration) | |
| None of the ingredients is listed. | |
| · NIOSH-Ca (National Institute for Occupational Safety and Health) | |
| None of the ingredients is listed. | |
| • GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). • Hazard pictograms | |
| GHS05 GHS07 · Signal word Danger | |
| | |
| Hazard-determining components of labeling: 2-Propenoic acid, reaction product with Pentaerythrite 1.4 Butanedial dimethacrylate | |

1,4 Butanediol dimethacrylate



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phenyl bis(2,4,6-trimethylbenzoyl)-phosphineoxide Pigment paste

Hazard statements

 Causes serious eye damage.
 May cause an allergic skin reaction.

 Precautionary statements

 Ausid brackbing dust/(use a (a statements))

Avoid breathing dust/fume/gas/mist/vapors/spray Wear protective gloves / eye protection / face protection. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. Wash contaminated clothing before reuse. Dispose of contents/container in accordance with local/regional/national/international regulations. • **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing SDS: Department Research & Development
- Contact: Dr. Thomas Veit, Lothar Sutor, Susanne Weber
- · Date of preparation / last revision 02/28/2022 / 4

Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organisation ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit **REL: Recommended Exposure Limit** Eye Dam. 1: Serious eye damage/eye irritation - Category 1 Skin Sens. 1: Skin sensitisation - Category 1 119