

Material Safety Data Sheet
according to decree (EG) No. 1272 / 2008

Revision: 17

Revision Date: 12.10.2021, SW

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product name (product identifiers):

smart light curing tray material

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

Intended purpose:

Making of individual impression- and functional trays

Occlusal registration

Precized impression for part- or totalprosthetics

Disadvised uses:

Impressions

Prosthesis Plastic

Filling Material

1.3 Details of the Supplier of the safety data sheet:

Manufacturer/Company:

dent a pharm Produktionsgesellschaft mbH

Street:

Schusterring 35

Zip-Code / Town

D-25355 Barmstedt

Contact for technical information

+49 (0) 41 23 / 9225 0

Phone / Fax / E-Mail

+49 (0) 4123 / 9225 0 / +49 (0) 4123 / 9225 48 / info@dent-a-pharm.de

1.4 Emergency number

Emergency information (24 hours)

Dr. Wolfgang Willmann

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2. Hazards Identification**2.1 Classification of the substance or mixture:****According to Regulation (EC) No. 1272/2008:**

- Skin sens. 1 (may cause allergic reactions)

2.2 Label elements**Labelling according to Regulation 1272/2008 (GHS/CLP)**

Warning

H317	may cause skin irritations
P272	Contaminated work clothing should not wear outside the workplace
P280	Wear protective gloves/protective clothing/eye protection/face protection
P302	In contact with skin:
P352	Flush with plenty of water and soap
P333	When skin irritation or rash occurs:
P313	Seek medical advice resp. medical attendance
P362	Take off contaminated clothing and wash before wearing again
P364	wash before wearing again
P501	Ingredients/container have to be disposed in accordance with local/regional/national/international regulations

2.3 Additional hazards:

- Can become warm during light curing process
- Do not use if known allergy against Acrylates and Methacrylates

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3. Composition/Information on Ingredients**Chemical characterization:****Hazardous ingredients:**

Ingredients	CAS-No./ EINECS-No./ EG-No.	Percentage (%)	Identification
Triethylenglykoldimethacrylate	CAS-No. 109-16-0 EINECS-No.203-652-6	2-5	Skin Sens. 1B H317 Skin sensitisation
Phosphine oxide	CAS-No. 75980-60-8 EG-No. 278-355-8	0,05 – 0,1	Repr 2 H361f suspected human carcinogen; probably harmful to fertility, probably damaging effect on the unborn child Aqu. Chron. 3, H412 hazardous to the aquatic environment, chronic
Vinylester Resin	CAS Nr. 55818-57-0	5-8	Skin Sens. 1B H317 Skin sensitisation
2,2-Dimethoxy-2-diphenylacetophenon	CAS-Nr.24650-42-8 EINECS-Nr. 246-386-6	< 0,1 %	Aquatic Chronic 1, H410
Campherchinon	CAS-Nr. 10373-78-1	< 0,1 %	Skin Irrit. 2, H315 STOT SE, H335
Dimethylhydroxyacetophenon	CAS-Nr. 7473-98-5 EINECS-Nr. 231-272-0	< 0,1 %	Skin Sens. 1, H317 Acute Tox. 4 Aquatic Acute
2-Ethylhexyl-4-(dimethylamino)benzoat	CAS-Nr. 21245-02-3 EINECS-Nr. 244-289-3	< 0,1 %	Eye Irrit. 2, H319 Aquatic Acute, H400 Repr. 1B, H360
2,2-Diethoxyacetophenon	CAS-Nr. 6175-45-7 EINECS-Nr. 228-220-4	<0,1 %	STOT SE 3, H335

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4. First-Aid-Measures

4.1 Description of first aid measures

If inhaled:

Take person to fresh air.
No further first aid measures are required.

In case of skin contact:

Wash off skin with soap and water and flush with plenty of Water.
Contact a physician if the skin is irritated.

In case of eye contact:

Rinse open eyes an efficient time with plenty of Water.
Contact ophthalmologist if irritation is persisting.

If swallowed:

Seek medical advice immediately.

4.2 Most important symptoms and effects, both acute and delayed:

Sensitization of skin is possible

4.3 Indication of any immediate medical attention and special treatment needed

Contact physician if sensitization of skin is persisting

5. Fire-Fighting-Measures

5.1 Extinguishing media

Suitable extinguishing media:
Foam, Dry powder, carbon dioxide, waterspray-stream.
Adjust fire-fighting-measures to ambiance.

For safety reasons unsuitable extinguishing media: none

5.2 Special hazards arising from the substance or mixture

Particular danger through the product itself, its combustion products or gases are not known

5.3 Advice for fire-fighters

Use conventional measures to combat chemical fires, that means use self-contained breathing apparatus (isolating-unit).

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6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Arrange for fresh air.

6.2 Environmental protection measures:

Do not drain into canalization.

6.3 Methods for cleaning / absorption:

Pick up material mechanically. Dispose only complete light cured material. Dispose material under adherence to the local official rules for hazardous wastes.

6.4 Reference to other sections

None

7. Handling and Storage

7.1 Precautions for safe handling:

Recommendation:

The conventional precautions for works with chemicals are to be adhered.
Wear overall while working.

Information about fire- and explosion protection:

No special measures necessary.

7.2 Conditions for safe storage, including any incompatibilities:

Store at a cool, dry and light protected place.
Storage time: 3 years if storage conditions will be kept

7.3 Specific end use(s)

Wear gloves while working.
Good ventilation during grinding the cured material is recommended

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8. Exposure Controls/Personal Protection**8.1 Control parameters**

None known

PNCE and DNCL-Values as to be possibly worked out in a preparation safety report do not exist.

8.2 Exposure controls

Personal protective equipment::

Pay attention of protection- and hygienic measures. Protection clothes must be stored separately. The usual precaution measures must be attended.

Breathing protection:

not necessary

Eye protection:

Wear protection goggles when working at material

Hand protection:

Sensibilisation: Wearing of applicable protection gloves

is recommended. (by experience of the past/literature) for example Ethiparat®-gloves for 5-10 minutes, application of No-touch-Technik, minimal-contact-techniques is recommended

Body protection:

Wear business usual protection clothes.

Other protection measures:

none

Advices for hygienic at work station:

Comply business usual protection- and hygienic measures.

Preventive skin protection.

Wash hands and skin after finishing work.

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

All Information are for the Acrylate Resin, except point the appearance

Appearance:	Form: upper jaw and lower jaw pattern, kneadable mass
Odour/Flavour:	acrylates / methacrylates
Odour Threshold:	no data available
pH-level:	no data available
Melting point/freezing point:	no data available
Initial boiling point and boiling range:	no data available
Flash point:	not available (approx. > 100°C) appreciated by the flash point of the ingredients
Evaporation rate	no data available
Flammability:	no data available
Upper/lower flammability or explosive limits:	no data available
Vapour pressure	no data available
Vapour density:	no data available
Relative density:	no data available
Water solubility:	unsoluble in water
Partition coefficient:	
n-Octanol/water:	no data available
Auto ignition temperature:	no data available
Decomposition temperature:	no data available
Viscosity:	no data available
Explosive properties	no data available
Oxidizing properties	no data available
9.2 Other safety information:	no data available

10. Stability and reactivity**10.1 Reactivity**

Product polymerizes slowly by contact with Sunlight or other Light

10.2 Chemical stability

If protected against heat, solar radiation and light the material is chemical stable.

10.3 Possibility of hazardous reactions

No hazardous heat emission during slow polymerizing

10.4 Conditions to avoid

Protect against Sunlight, heat and other light to avoid slowly polymerization.

10.5 Incompatible materials

Protect against radical formers to avoid slowly polymerization

10.6 Hazardous decomposition products:

None, if used according to directions.

After considerably exceedance of storage time and / or exceedance of storage temperature it is possible that the product starts polymerizing under low heat impact.

11. Toxicological information

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11.1 Information of toxicological effects

Acute Toxicity

According to the single ingredients the mixture is not acute toxic

Skin corrosion/irritation

No irritation to skin

Serious eye damage/eye irritation

No irritation to eyes

Respiratory or skin irritation

No irritation to Respiratory or skin

Skin sensitisation

Skin sensitisation possible according to the ingredients

Toxicity – repeated exposure

No toxicity known after repeated exposure

Germ cell mutagenicity

Carcinogenicity

No carcinogenicity according to the ingredients

Mutagenicity

No mutagenicity according to the ingredients

Reproductive toxicity

No reproductive toxicity according to the concentration of the single components.

Kinetic of the toxic reaction

According the new Material Safety Data Sheet according to REACH, specifications about kinetic of the toxic reaction, metabolism of the substance and allocation of the substance in the human body must be mentioned at this place. Data for this is not available .

Further Information

By appropriate exposure and conventionally use and to our experiences and informations the product causes no hazardous effects.

The product has to handled with the usual care when handling chemicals.

Methacrylates may cause allergical reactions.

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12. Ecological information**12.1 Toxicity**

Fish toxicity: no data available for this mixture

Water organism: no data available

Bacteria toxicity: no data available

12.2 Persistence and degradability

The ingredients of the mixture are not degradable

12.3 Bioaccumulation potential:

No data available

12.4 Mobility in soil

No data available

12.5 Effect of the determination of the PTB- and vPvB-Report:

If the material causes hormonal effects or prevents them is unknown to us.

12.6 Other adverse effects

No data available

13. Disposal considerations**13.1 Waste treatment methods**

To dispose of accordingly with notice of the local regulations of authority.
Do not empty into drains.

Disposal key according to AVV regulation

16 03 05 (organic disposal, that contains hazardous substances)

Package

Packages that are not contaminated can be recycled.

14. Transport information/rules**14.1 UN number**

none

14.2 UN proper shipping name

none

14.3 Transport hazard class(es)

none

14.4 Packing group

none

14.5 Environmental hazards

none

14.6 Special precautions for Transport

none

14.7 Transportation in bulk according to Annex II of MARPOL 73/78 and IBC Code

no

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15. Regulatory Information**15.1 Safety health and environmental/legislation specific for the substances or mixture****GHS-Labeling according to guideline 1272/2008 (GHS/CL)**

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15.2 Safety Assessments

Safety Assessments for substances in this preparation were not executed

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16. Other information

Further applicable EG Guidelines

Guideline for preparation (1999/45/EC), at last changed by the guideline 2006/8/EC.
Substance Guideline (67/548/EWG), at last changed by the guideline 2006/121 EC.
REACH-Guideline (EC) No. 1907/2006, at last changed by the guideline 1272/2008 EC.

Manufacturer's suggested application restriction:

Only for commercial use – no public product

H-phrases on which is referred in chapter 2 and 3

H317 May cause an allergic skin reaction
H361f May impair fertility
H412 Harmful to aquatic life with long lasting effects.

Changes compared to the last version

Change of Labelling according GHS-Labelling

Department issuing MSDS:

Dr. Wolfgang Willmann (Phone: +49 (0) 41 23 – 9225 0)

Additional Information:

Origin: ¹ <http://www.baua.de>

² <http://www.arbeitssicherheit.de>

Some of the information presented and conclusions drawn herein are from sources other than direct test-data on the product itself.

The contents and format of this MSDS are in accordance with EEC Commission (EC) No. 1272 / 2008.

Disclaimer of Liability

The information in this MSDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness.

The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge.

For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

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