



according to Regulation (EC) No 1272 / 2008
 Revision date: 27.03.2019 Revision: 16

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Hinritray

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

- 1.1 Product identifier**
 Commercial product name: Hinritray– 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/Supplier: ERNST HINRICHS Dental GmbH
 Street / mailbox: Borsigstr. 1
 Country code. / postal code / city: D - 38644 Goslar
 Phone: 0 53 21 / 5 06 24
 Fax: 0 53 21 / 5 08 81
 E-mail / Website: info@hinrichs-dental.de / www.hinrichs-dental.de
 Further information obtainable from: ERNST HINRICHS Dental GmbH
- 1.4 Emergency telephone number**
 ERNST HINRICHS Dental GmbH: +49 (0) 53 21 / 5 06 24 (Mon-Fri. 8 a.m. – 4 p.m.)

SECTION 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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SECTION 3: Composition/information on ingredients

2.1 Chemical characterisation:

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

SECTION 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.

In case of ingestion:

Seek medical advice immediately.

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

Sensitisation of skin is possible.

4.3 Indication of any immediate medical attention and special treatment needed:

Contact a doctor if sensitisation of skin is persisting.

SECTION 5: Firefighting measures

5.1 Extinguishing media:

Suitable extinguishing media:

Foam, dry powder, carbon dioxide, water spray-stream. Adjust firefighting 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.

Particular danger through the product itself, its combustion products or gases:

Not known.

5.4 Advice for fire-fighters:

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



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SECTION 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 canalisation.
- 6.3 **Methods for cleaning / absorption:** Pick-up material mechanically. Dispose only complete light cured material. Dispose material according to the local regulations for hazardous waste.
- 6.4 **Reference to other sections:** None.

SECTION 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 condition will be kept.
- 7.3 **Specific end use(s):** Wear gloves while working. Good ventilation during grinding the cured material is recommended.

SECTION 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 clothing:** Pay attention to protection- and hygienic measures. Protective 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-Technique, minimal-contact-techniques is recommended.
 - Body protection:** Wear business usual protection clothes.
 - Other protection measures:** None.
 - Hygienic measures:** Comply business usual protection- and hygienic measures. Preventive skin protection. Wash hands and skin after finishing work.



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SECTION 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
Colour:	Pink, blue, transparent
Odour/Flavour:	Acrylates / methacrylates
Odour Threshold:	No data available.
pH-value:	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.

SECTION 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 chemically 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 polymerisation.
10.5 Substances to avoid:	Protect against radical formers to avoid slowly polymerisation.
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 polymerising under low heat impact.

SECTION 11: Toxicological information

11.1 Acute Toxicity: According to the single ingredients, the mixture is not acute toxic.



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At skin:	No irritation to skin.
At Eyes:	No irritation to eyes.
At respiratory:	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.

11.2 Further information: By appropriate exposure and conventionally use and to our experiences and information the product causes no hazardous effects.
 The product has to be handled with the usual care when handling chemicals. Methacrylates may cause allergic reactions.

SECTION 12: Ecological information

12.1 Toxicity:	
Fish toxicity:	Not data available for this mixture.
Water organism:	Not data available.
Bacteria toxicity:	Not 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.

SECTION 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.
Waste key code according to AVV regulation:	16 03 05 (organic disposal, that contains hazardous substances).



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Package: Packages that are not contaminated can be recycled.

SECTION 14: Transport information

- 14.1 UN number: None.
- 14.2 UN proper shipping name: None.
- 14.3 Transport hazard class(es): None.
- 14.4 Packaging 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.

SECTION 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)**



Warning

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15.2 Safety Assessments: Safety Assessments for substances in this preparation were not executed.

SECTION 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.

Manufacturers 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.

EU - Safety data sheet



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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

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. 1907 / 2006.

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