



according to decree (EC) No. 1907/2006
 Revision date: 19.10.2015

page 1 of 5
 Date of issue: 17.02.2016

Hinritray

1. Identification of the Substance / Preparation and Company:

Identification of the substance or preparation:

Commercial product name: Hinritray – Light curing tray material
 Company / Manufacturer: ERNST HINRICHS Dental GmbH
 Borsigstr. 1
 D - 38644 Goslar
 0 53 21 / 5 06 24
 0 53 21 / 5 08 81
 info@hinrichs-dental.de / www.hinrichs-dental.de

2. Hazards Identification:

2.1 Classification of the substance or mixture:
 According to Regulation (EC) No. 1272/2008: Skin sens. 1 (may cause allergical reactions).

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



Caution

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.

3. Composition / Information on Ingredients:

2.1 Chemical characterisation:

Hazardous ingredients:

Ingredients:	Cas-no. / EINECS-no. / EG-no.	Percentage (%)	Identification
Triethylglykoldimethacrylate	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



according to decree (EC) No. 1907/2006
Revision date: 19.10.2015

page 2 of 5
Date of issue: 17.02.2016

Hinritray

4. First aid measures:

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| 4.1 | Description of first aid measures
In case of inhalation:

In case of skin contact:

In case of eye contact:

In case of ingestion: | Take person to fresh air.
No further first aid measures are required.
Wash off skin with soap and water and flush with plenty of Water. Contact a physician if the skin is irritated.
Rinse open eyes an efficient time with plenty of Water.
Contact ophthalmologist if irritation is persisting.
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. |

5. Fire Fighting measures:

- | | | |
|-----|---|--|
| 5.1 | Extinguishing media:
Suitable extinguishing media:
For safety reasons unsuitable extinguishing media: | Foam, dry powder, carbon dioxide, waterspray-stream.
Choose fire-fighting measures according to the environment.
None. |
| 5.2 | Special hazards arising from the substance or mixture:
Particular danger through the product itself, its combustion products or gases: | Particular danger through the product itself, its combustion products or gases are not known.
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). |

6. Accidental release measures:

- | | | |
|-----|---|---|
| 6.1 | Personal precautions protective equipment and emergency procedures: | Supply 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. |

7. Handling and Storage:

- | | | |
|-----|--|--|
| 7.1 | Precautions for safe handling:
Recommendation:

Information about fire- and explosion protection: | The conventional precautions are to be adhered when handling with chemicals. Wear protective clothing.
No special measures necessary. |
| 7.2 | Storage conditions:
Storage time: | Cool, dry and away from sunlight.
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. |

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:

Breathing protection:
Eye protection: | Pay attention to protection- and hygienic measures. Protective clothes must be stored separately. The usual precaution measures must be attended.
Not necessary.
Wear protection goggles when working at material. |



according to decree (EC) No. 1907/2006
Revision date: 19.10.2015

page 3 of 5
Date of issue: 17.02.2016

Hinritray

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.
Hygienic measures:	Comply business usual protection- and hygienic measures. Preventive skin protection. Wash hands and skin after finishing work.

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 kneadable mass.
Colour:	Pink, blue, transparent
Odour:	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:	No data available.
n-Octanol/water:	
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 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.



according to decree (EC) No. 1907/2006
Revision date: 19.10.2015

page 4 of 5
Date of issue: 17.02.2016

Hinrtray

11. Toxicological Information:

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

12. Ecological Information:

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

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).
Package:	Packages that are not contaminated can be recycled.

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.



according to decree (EC) No. 1907/2006
Revision date: 19.10.2015

page 5 of 5
Date of issue: 17.02.2016

Hinritray

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)



Caution

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P272

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P352

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P501

May cause skin irritations.

Contaminated work clothing should not wear outside the workplace.

Wear protective gloves/protective clothing/eye protection/face protection.

In contact with skin:

Flush with plenty of water and soap

When skin irritation or rash occurs:

Seek medical advice resp. medical attendance.

Take off contaminated clothing and wash before wearing again.

Wash before wearing again.

Ingredients/container have to be disposed in accordance with local/regional/national/international regulations.

15.2 Safety Assessments:

Safety Assessments for substances in this preparation were not executed.

16. Further 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

Changes compared to the last version:

Change of Labelling according GHS-Labeling

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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