

EG-MATERIAL SAFETY DATA SHEET



according to 91/155 EEC
Revision date: 26.03.2012

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Date of issue: 15-May-12

Hinritray

1. Identification of the Substance / Preparation and Company:

Identification of the substance or preparation:

Commercial product name:

Company / Manufacturer:

Hinritray - Lightcuring tray material

ERNST HINRICHS 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. Composition / Information on Ingredients:

2.1 Chemical characterisation:

Hazardous ingredients:

Ingredients:	Cas-no.	EINECS-no.	EG-no.	Percentage (%)	Identification
Ogliomeric urethane acrylate				0 - 10	Xi, R36
Vinyl ester resin (acrylates)				0 - 10	None
Triethylenglykoldimethacrylate	109-16-0	203-652-6	607-114-00-5	0 - 10	None
Phosphine oxide				0 - 1	Xn, R62

3. Hazards Identification:

Potential hazards:

Irritant

Categorization:

Xi, R 36/37/38

Additional hazard advices for human and environment:

None.

4. First aid measures:

4.1 General information:

Take off contaminated clothes immediately.

4.2 In case of skin contact:

Wash off with soap and water. Contact a physician if the skin irritated.

4.3 In case of eye contact:

Rinse out the eyes thoroughly with plenty of water. Consult a doctor if symptoms persist.

4.4 In case of inhalation:

Supply fresh air immediately.

4.5 In case of ingestion:

Seek medical advice immediately.

5. Fire Fighting measures:

5.1 Extinguishing media:

Foam, dry powder, carbon dioxide, waterspray-stream.
Choose fire-fighting measures according to the environment.

5.2 For safety reasons unsuitable extinguishing media:

None.

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

Not known.

5.4 Protective equipment 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:

Supply fresh air.

6.2 Environmental precautions:

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.

7. Handling and Storage:

7.1 Handling:

The conventional precautions are to be adhered when

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Information about fire- and explosion protection: handling with chemicals. Wear protective clothing. No special measures necessary.

7.2 Storage conditions: Cool, dry and away from sunlight.
Storage time: 3 years if stored according to the conditions.

8. Exposure controls / Personal protection:

Limit values for the exposition at the workstation and / or biological limit values :
Work station limit values (AGW) Germany.
PNCE and DNCL-values as to be possibly worked out in a preparation safety report do not exist.
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.
Hand protection: Sensibilisation: wearing of applicable protection gloves is recommended. Penetration time of the gloves should be for at least for 5-10 minutes, application of the no-touch-technique and minimal-contact-techniques are recommended.
Body protection: Wear protective clothing.
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:

Appearance: Paste-like mass
Form: Upper jaw and lower jaw pattern kneadable mass.
Colour: Pink, blue, transparent
Odour: Acrylates / methacrylates
Safety relevant data:
Flash point: Not available (approx. > 100°C). Appreciated by the flash point of the ingredients. No symbol necessary.
Density: Not available.
Solubility in water: Insoluble in water.
pH-Value: Not applicable.

10. Stability and Reactivity:

Conditions to avoid: Beware of heat, solar radiation and light impact to avoid early slow polymerisation.
Substances to avoid: Radical former (product polymerises slowly at contact).
Hazardous decomposition products: None, if used according to directions.
Further information: After considerably exceedance of storage time and / or exceedance of the recommended storage time it is possible that the product starts polymerising under low heat impact.

11. Toxicological Information:

11.1 Acute Toxicity:
At skin: Irritation.
At Eyes: Irritation.
At respiratory: Irritation.

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

12. Ecological Information:

- 12.1 Fish toxicity: Not applicable.
- 12.2 Water organism: Not applicable.
- 12.3 Bacteria toxicity: Not applicable.
- 12.4 Further details to ecology: Do not allow product to reach ground water, body of waters or sewage system.
- 12.5 Bioaccumulation potential: No data available.
- 12.6 Effect of the determination of the PTB- and vPvB-Report: Endocrine disruption potential.
If the material causes hormonal effects or prevents them is unknown to us.

13. Disposal Considerations:

- 13.1 Substance / preparation: To dispose of accordingly with notice of the local regulations of authority. Do not empty into drains.
- 13.2 Waste key code according to AVV regulation: 16 03 05 (organic disposal, that contains hazardous substances).
- 13.3 Package: Packages that are not contaminated can be recycled.

14. Transport Information:

Land Transport ADR / RID:

- Classification:
- Class: - (no hazardous material in terms according to transport rules)
- UN-Number: -
- Classification code: -
- Description of the good: Light curing tray material
- Hazard cause: -
- Packaging group: Not applicable, because it is not a flammable substance.
- Hazard sheet: Not applicable.

Maritime transport IMDG / GGV Sea

- Classification:
- IMDG-Code: -
- UN-Number: -
- EmS: -
- Marine pollutant: No.
- Description of the good: Light curing tray material
- Hazard cause: -
- Packaging group: Not applicable, because it is not a flammable substance.
- Hazard sheet: Not applicable.

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Air transport ICAO-TI and IATA-DGR:	
Class:	-
UN-Number:	-
Description of the good:	-
Hazard cause:	-
Packaging group:	Not applicable, because it is not a flammable substance.
Hazard sheet:	Not applicable.

15. Regulatory Information:

Labelling according EU regulations:
Codeletter / hazard description:



Xi, Irritant

R-Phrases:
36/37/38

Irritating to eyes, skin and respiratory system.

GHS-Labeling:



Caution:

H319
H335
H315

Causes serious eye irritation.
May cause respiratory irritation.
Causes skin irritation.

Hazard decisive components for the labelling:

-

Safety Assessments:

Safety assessments for substances in this preparation were not executed.

National regulations:

Water hazard class:

Class 2 (estimated on the basis of the ingredients).

16. Further 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.