



According to (EC) no. 1907/2006 (amended by regulation (EU) Nr. 453/2010)

Date of issue: 23.04.2015  
Date of revision: 22.01.2016

Version 3

Printing date: 16.08.2016

**HinriScan varnish**

**1. Identification of the substance / Preparation and Company:**

- 1.1 Identification of the substance or preparation:  
Commercial product name: HinriScan varnish
- 1.2 Relevant identified uses of the substance or mixture and uses advised against  
Relevant identified uses: SU 20 health care. Water removable spacer for pressable ceramics/CAD-CAM - for use in dental labs  
Uses advised against: Should not be used outside a dental lab.
- 1.3 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
- 1.4 Further information obtainable from: ERNST HINRICHS Dental GmbH  
Emergency telephone number  
ERNST HINRICHS Dental GmbH: +49 (0) 53 21 / 5 06 24 - 25 (Mon-Fri. 8 a.m. – 4 p.m.)

**2. Composition / Information on Ingredients:**

- 2.1 Classification of the substance or mixture:  
Classification according to regulation (EC) no. 1272/2008 (CLP): Flammable liquids (chapter 2.6), category 2 (Flam. Liq. 2), H225, Eye irritation (chapter 3.3), category 2 (Eye Irrit. 2), H319, For the full text of the H-statements mentioned in this section, see section 16.

- 2.2 Label Elements  
Labelling according to regulation (EC) no. 1272/2008 (CLP/GHS)  
Hazard pictograms:



Signal word / hazard designation: Danger (Flam. Liq. 2), warning (Skin Irrit. 2)  
Hazardous component(s) for labelling: Contains ethanol.  
Reduced labelling (≤125 ml) (according to exemptions from the packaging and labelling regulations according

to EC-CLP-regulation) Signal word: danger hazard pictograms:



Hazard statements:  
H225: Highly flammable liquid and vapour.  
H319: Causes serious eye irritation.  
H336: May cause drowsiness and dizziness.

Precautionary statements:  
P210: Keep away from heat/sparks/open flames/hot surfaces. — No smoking.  
P233: Keep container tightly closed.  
P102: Keep out of reach of children.  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P261: Avoid breathing dust / fume.

Supplemental Hazard information (EU):  
EUH066: Repeated exposure may cause skin dryness or cracking.

- 2.3 Other Hazards: No supplementary information available.



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**3. Hazards Identification:**

3.1 Substances:

Principal component of the substance:	Substance name: Ethanol This substance does not meet the PBT or vPvB criteria according to the regulation (EC) no. 1907/2006, annex XIII. Index-no.: 603-002-00-5 EG-no.: 200-578-6 CAS-no.: 64-17-5
Impurities, stabilizers:	Substance name: Isopropyl (0-7%) This substance does not meet the PBT or vPvB criteria according to the regulation (EC) no. 1907/2006, annex XIII. Index-no.: 603-117-00-0 EG-no.: 200-661-7 CAS-no.: 67-63-0
Classification according to 1272/2008 (CLP):	Flammable liquids (chapter 2.6), category 2 (Flam. Liq. 2), H225, Eye irritation (chapter 3.3), category 2 (Eye Irrit. 2), H319, May cause drowsiness or dizziness (chapter 3.8), category 3 (STOT SE3), H336

3.2 Mixtures:

Description of the mixture:  
EG-no.:      CAS-no. :      Index-No.:      REACH-registration no.:  
Content ration: %  
Classification according to regulation (EC) no. 1272/2008 (CLP)  
(Full text of H- and EUH-phrases: see SECTION 16)

**4. First aid measures:**

4.1 Description of first aid measures: After inhalation:  After skin contact: After eye contact:  After ingestion:	In general: take off contaminated clothing. In case of dizziness after inhalation of vapours, take the person concerned to fresh air. Wash affected skin thoroughly with water and soap. Rinse eyes with current water for at least 10 minutes. If eye irritation persists consult a doctor. Rinse mouth. If discomfort persist consult a doctor.
4.2 Most important symptoms and effects, both acute and delayed:	Irritant effects, drowsiness, nausea, vomiting, headache, doziness.
4.3 Indication of any immediate medical attention and special treatment needed:	Notes for the doctor: not determined Special treatment: not determined

**5. Fire Fighting measures:**

5.1 Extinguishing agents: Unsuitable extinguishing agents:	Dry powder, foam, sand. Water.
5.2 Special hazards arising from the mixture:	Flammable. An incomplete combustion may result in toxic components within the flue gas. In case of fire a respiratory equipment working independently from its ambient environment is recommended for the fire fighters.
5.3 Advice for fire-fighters:	In case of fire a respiratory equipment working independently from its ambient environment is recommended for the fire fighters.

**6. Accidental release measures:**

6.1 Personal precautions, protective equipment and emergency procedures:	For non-emergency personnel: Remove all sources of ignition immediately. Ensure good ventilation. Do not inhale fume or spray.
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- 6.2 Environmental precautions: For emergency responders: Personal protective equipment: respiratory equipment working independently from its ambient environment Prevent the liquids from ingress into surface water or drains.
- 6.3 Measures for cleaning / collecting: Wear safety equipment, absorb with liquid binding material (sand, universal binding material) and dispose of as hazardous material.
- 6.4 Reference to other sections: Dangerous combustion products: see section 5. Personal protective equipment: see section 8.

**7. Handling and Storage:**

- 7.1 Precautions for safe handling: Advice on general hygiene: Fire preventions: Provide adequate ventilation. Keep away from sources of ignition – don't smoke!  Not determined. Aerosol and dust generation preventions: Do not allow to reach the drain system. Environmental precautions: Follow the advice on general occupational hygiene, when dealing with chemicals, keep away from food, and don't smoke. Advice on general occupational hygiene:
  - 7.2 Conditions for safe storage, including any incompatibilities Storage conditions: Store by a temperature less than 30°C and tightly closed. Keep away from foodstuff. Requirements for storage rooms and vessels: According to TRGS 510, annex 9, regulation for small quantities. Storage class: (LGK) (VCI) 3
  - 7.3 Specific end uses: Sector specific guidelines: Dental laboratories. Except for the applications mentioned in section 1.2 there are no other specific end applications provided.

**8. Exposure controls / Personal protection:**

- 8.1 Control parameters Occupational exposure limits Substance: Ethanol ; CAS-no. : 64-17-5 Spezifizierung : TRGS 905/TRGS 900 Limit value type (country of origin) : (AGW): 960 mg/m<sup>3</sup> respectively 500 ml/m<sup>3</sup> (ppm) Peak limitation: Exceedance factor (ÜF) 2, category for short term values II Toxic to reproduction: A risk of foetal damage is ceased to fear when observing the MAK / BAT values. Source (TRGS) Not determined.
- 8.2 Exposure controls Appropriate engineering controls Personal protective equipment Eye / face protection:  Wear tight fitting goggles Skin protection:




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Hand protection:	The glove material has to be impermeable and resistant to the product. Full contact: Gloves made of butyl rubber. Layer thickness: $\geq 0,7$ mm Penetration time: $\geq 60$ min
	
	Splash contact: Gloves made of nitrile rubber Layer thickness: 0,40 mm Penetration time: $< 120$ min. Wear adequate working clothes.
Body protection:	Generally there are no special measures to be taken. In case of release of a more important quantity (drained off bottle) provide for sufficient ventilation.
Respiratory protection:	Not applicable if not stored over 45°C for a longer space of time.
Thermal hazards:	Not determined.
Environmental exposure controls :	Not determined.

**9. Physical and chemical properties:**

9.1	General information:	
	Aggregate state:	liquid
	Colour:	Tooth-coloured
	Odour:	Characteristic (like alcohol)
	Odour threshold:	No data available.
9.2	Change in condition:	
	pH-value:	n. b.
	Melting point / Melting range:	-114,5°C
	Initial boiling point/boiling range:	78°C
	Flash point:	17°C
	Evaporation rate:	No data available.
	Flammability:	n. b.
	Upper/lower explosive limits:	15,0 Vol% // 3,4 Vol%
	Vapour pressure :	59 hPa when 20 °C
	Vapour density:	No data available
	Relative density:	n.b.
	Solubility:	Unlimited miscibility
	Partition coefficient:	n.b.
	n-octanol/water:	
	Auto-ignition temperature:	425 °C
	Decomposition temperature:	No data available
	Viscosity:	n.b.
	explosive properties:	Not classified as explosive
	Oxidising properties:	none
9.2	Other information:	
	Explosives:	There are no further data available.

**10. Stability and Reactivity:**

10.1	Reactivity:	Risk of ignition
10.2	Chemical stability:	Under standard ambient conditions the material is chemically stable.
10.3	Possibility of hazardous reactions:	n. b.



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- 10.4 Conditions to avoid: Storing for a longer space of time over 45°C.
- 10.5 Incompatible materials: Strong oxidants.
- 10.6 Hazardous decomposition products: None when storing at room temperature.

**11. Toxicological Information:**

Acute toxicity:	LD50 rat: 10.470 mg/kg OECD test guideline 401 Symptoms: slight irritation of mucous membrane
Skin irritation:	Result rabbit: no skin irritation OECD test guideline 404  Repeated or prolonged exposure may cause skin irritation and dermatitis due to degreasing properties of the product (EUH066)
Eye irritation:	Result rabbit: eye irritation OECD test guideline 405 Causes serious eye irritation (H319)
Sensitisation to the respiratory tract / skin:	Sensitisation to the respiratory tract / skin Test on sensitisation (Magnusson und Kligman): Result: negative Germ cell mutagenicity Genotoxicity in vitro Ames test Salmonella typhimurium Result: negative Method: OECD test guideline 471 Carcinogenicity No information available Reproductive toxicity No information available. No information available.
Specific target organ toxicity (single exposure):	No information available.
Specific target organ toxicity (repeated exposure):	No information available.
Aspiration hazard:	No information available.
Symptoms related to the physical, chemical and toxicological characteristics:	In case of ingestion: after a resorption of immense quantities: dizziness, rapture, anaesthesia. In case of skin contact: dryness In case of inhalation: euphoria In case of eye contact: irritation Systemic effect: euphoria Follow the usual instructions when dealing with chemicals.

**12. Ecological Information:**

12.1 Toxicity:	The product is slightly hazardous to water (water pollution class I). The hazard presented by this product in a container of 20 ml can be neglected.
12.2 Persistence and degradability:	Biodegradability 94 % OECD test guideline 301E Easily biodegradable.
12.3 Bioaccumulative potential:	Bioaccumulation is not to be expected.
12.4 Mobility in soil:	No information available.
12.5 Results of PBT- and vPvB assessment:	This substance does not meet the PBT or vPvB criteria according to the regulation (EC) no. 1907/2006, annex XIII.



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2.6 Other adverse effects No environmental problems can be expected when handled and used properly. Leakage into the environment is to be prevented.

**13. Disposal Considerations:**

13.1 Waste treatment methods:  
Contaminated packaging disposal: Containers are to be treated as the product itself. 150110 (AVV)  
Waste codes / waste designations according to EWC / AVV: 160506 (AVV)  
Special precautions: None.  
Other relevant provisions for waste treatment national or EC: Waste directive 2008/98/EC has to be observed.

**14. Transport Information:**

14.1 UN-no.: UN 1170  
14.2 UN proper shipping name  
ADR/RID: Ethanol  
IMDG-Code / ICAO-TI / IATA-DGR: Ethanol  
EmS F-E S-D  
14.3 Transport hazard class(es) / hazard labels: Class 3  
14.4 Packing group: II  
14.5 Environmental hazards: Environmentally hazardous substance marking  
ADR/RID / IMDG-Code / ICAO-TI / IATA-DGR: 0 yes / XXX no  
Marine Pollutant: 0 yes / XXX no  
14.6 Special precautions for user: Do not expose to sources of ignition. Beware of inflammable materials.  
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Pollution category (X, Y or Z) :  
Type of ship (1, 2 or 3) : not relevant

**15. Regulatory Information:**

15.1 Safety, health and environmental regulations / legislation specific for the substance / mixture.  
EU-regulations, e.g.:  
Directive /EC) no. 2037/2000 (substances that deplete the ozone layer): Not regulated.  
Directive (EC) no. 850/2004 (persistent organic pollutants): Not regulated.  
Directive (EC) no. 689/2008 (export and import of dangerous chemicals): Not regulated.  
Directive (EC) no. 648/2004 (detergent regulation): Not regulated.  
Restrictions in accordance with title VIII of the regulation (EC) no. 1907/2006: This product does not contain any ingredients of very high concern according to REACH EC no. 1907/2006, Art. 57 low concentration limit of  $\geq 0,1 \%$  (w/w).  
National regulations, e.g.:  
Water hazard class: 1  
Technical instructions on Air Quality Control (TA-Luft): Not regulated



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Other relevant regulations

Leaflet BG-Chemie

M004 irritant materials

M050 tasks with hazardous materials

Ethanol (64-17-5) AGW: 500 ppm 960 mg/m<sup>3</sup> peak limit value 2 if one meets the

TRGS 900

AGW- und BGW values no risk of reproduction damage is to be expected (see no. 8.1).

15.2 Chemical safety assessment:

No chemical safety assessment has been performed on this substance.

**16. Further Information:**

Indication of changes

Adaption to the classification and labelling according to directive (EC) no. 1272/2008

Section 1: accessibility of the emergency number

Abbreviations and acronyms

n. a.

Not applicable.

Key literature references and sources for data:

Gestis substance data base - <http://gestis.itrust.de/>  
Federal Agency for Industrial Health and Safety – [www.baua.de](http://www.baua.de)

Classification for mixtures and used evaluation method according to regulation (EC) 1207/2008 [CLP]:

Relevant R-, H- and EUH-phrases (number and full text):

Hazard statements:

H225:

Highly flammable liquid and vapour.

H319:

Causes serious eye irritation.

H336:

May cause drowsiness and dizziness

Precautionary statements:

P210:

Keep away from heat/sparks/open flames/hot surfaces. — No smoking.

P233:

Keep container tightly closed.

P102:

Keep out of reach of children.

P305+P351+P338:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P261:

Avoid breathing dust / fume.

Supplemental Hazard information (EU):

EUH066:

Repeated exposure may cause skin dryness or cracking.

Training advice:

Provide adequate information, instruction and training for operators / technicians using this product.

Further information

This information is based on our present state of knowledge. It should therefore not be construed as guaranteeing specific properties of the products described or their suitability for a particular application. We do not take any responsibility for possible sources of errors or sufficiency of this document. The user of the product accepts the sole responsibility to adhere to all herein mentioned regulations. It is the user's obligation to read this document carefully.