

in accordance with regulation (EC) no. 1907/2006
(amended by regulation (EU) Nr. 453/2010)
Date of issue: 23.04.2015
Date of revision: 29.12.2020
Valid from: 29.12.2020

Version 5

Printing date: 20.01.2021

Replaces version: 4

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
Importer: Ivoclar Vivadent Ltd
12 Omega St, Rosedale, Auckland, New Zealand
Phone +64 9 914 9999 Fax +64 9 914 9990
www.ivoclarvivadent.co.nz
0800 764 766 (National Poison Centre)
Poisons Hotline (24 hours / 7 days)
- Emergency phone number:**

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.



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6. Accidental release measures:

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| 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.

For emergency responders:
Personal protective equipment:
respiratory equipment working independently from its ambient environment |
| 6.2 | Environmental precautions: | Prevent the liquids from ingressing 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:

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|-----|--|--|
| 7.1 | Precautions for safe handling:
Advice on general hygiene:
Fire preventions:

Aerosol and dust generation preventions:
Environmental precautions:
Advice on general occupational hygiene: | Provide adequate ventilation. Keep away from sources of ignition – don't smoke! 
Not determined.
Do not allow to reach the drain system.
Follow the advice on general occupational hygiene, when dealing with chemicals, keep away from food, and don't smoke. |
| 7.2 | Conditions for safe storage, including any incompatibilities
Storage conditions:

Requirements for storage rooms and vessels:

Storage class: | Store by a temperature less than 30°C and tightly closed.
Keep away from food.
According to TRGS 510, annex 9, regulation for small quantities.
(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:

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|-----|---|--|
| 8.1 | Control parameters
Occupational exposure limits
Substance: Ethanol ; CAS-no. : 64-17-5
Specification:
Limit value type (country of origin) :
Peak limitation:
Toxic to reproduction:

Source (TRGS) | TRGS 905/TRGS 900
(AGW): 960 mg/m ³ respectively 500 ml/m ³ (ppm)
Exceedance factor (ÜF) 2, category for short term values II
A risk of foetal damage is ceased to fear when observing the MAK / BAT values.
Not determined. |
| 8.2 | Exposure controls
Appropriate engineering controls
Personal protective equipment | |

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Eye / face protection:



Wear tight fitting goggles

Skin protection:
 Hand protection:

The glove material has to be impermeable and resistant to the product.

Full contact:
 Gloves made of butyl rubber.
 Layer thickness: ≥ 0,7 mm
 Penetration time: ≥ 60 min



Body protection:
 Respiratory protection:

Splash contact:
 Gloves made of nitrile rubber
 Layer thickness: 0,40 mm
 Penetration time: < 120 min.
 Wear adequate working clothes.
 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.

Thermal hazards:

Not applicable if not stored over 45°C for a longer space of time.

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



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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.
- 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: 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.
- 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 %



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| 12.3 Bioaccumulative potential: | OECD test guideline 301E
Easily biodegradable. |
| 12.4 Mobility in soil: | Bioaccumulation is not to be expected.
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. |
| 12.6 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)
160506 (AVV) |
| Waste codes / waste designations according to EWC / 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:

- | | |
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| 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 |



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Water hazard class:	1
Technical instructions on Air Quality Control (TA-Luft):	Not regulated
Other relevant regulations	
Leaflet BG-Chemie	M004 irritant materials M050 tasks with hazardous materials
TRGS 900	Ethanol (64-17-5) AGW: 500 ppm 960 mg/m ³ peak limit value 2 if one meets the AGW- und BGW values no risk of reproduction damage is to be expected (see no. 8.1).
14.1 Chemical safety assessment:	No chemical safety assessment has been performed on this substance.

15. Regulatory Information:

15.1 Safety, health and environmental regulations / legislation specific for the substance / mixture.
 Classified as Hazardous according to the criteria of the National Occupational Health and Safety Commission (NOHSC) approved criteria for the classifying hazardous substances [NOHSC: 1008] 3rd edition.
 Standard for the Uniform Scheduling of Medicines and Poisons.
 Carcinogen classification under WHS Regulation 2011, Schedule 10.
 Notification status in accordance with section 3 and current national legislation.
 HSNO Approval: HSR001144
 EPA NZ Classes of hazardous properties:
 Classification 3.1B Flammable Liquids: high hazard
 Classification 6.4A Irritating to the eye

16. Further Information:

Indication of changes	Adaption to the classification and labelling according to directive (EC) no. 1272/2008 Section 1: Emergency phone 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
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.

EU – Safety Data Sheet



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.