



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: 11.11.2016



Replaces version 2

HinriScan thinner

1. Identification of the substance / Preparation and Company:

- 1.1 Product identifier
 Tradename: HinriScan Thinner
 Product description:
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
 Relevant identified uses: SU 22 dental field – commercial use (dental labs).
 Product category: thinner
 Process class: brush application
 Environmental release category: industrial use of processing aids in processes and products not becoming part of articles.
 Should not be used outside a dental lab.
- Uses advised against:
- 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 - 25 (Mon-Fri. 8 a.m. – 4 p.m.)

2. Hazards Identification:

- 2.1 Classification of the substance or mixture:
 Classification according to regulation (EG) 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,
 2.1
 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:
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- Signal word / hazard designation: danger (Flam.Liq. 2), warning (Eye 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 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.



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- P261: Avoid breathing dust / fume.
 2.3 Other Hazards: No supplementary information available.

3. Composition/information on ingredients:

- 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: Isopropanol (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: Not applicable.
 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: In general: take off contaminated clothing.
 In case of dizziness after inhalation of vapours, take the person concerned to fresh air.
 After skin contact: Wash affected skin thoroughly with water and soap.
 After eye contact: Rinse eyes with current water for at least 10 minutes. If eye irritation persists consult a doctor.
 After ingestion: Rinse mouth. If discomfort persists 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: Dry powder, foam, sand.
 Unsuitable extinguishing agents: 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:
Fire preventions: | Provide adequate ventilation. Keep away from sources of ignition – don't smoke!  |
| | Aerosol and dust generation preventions: | Not determined. |
| | Environmental precautions: | Do not allow to reach the drain system. |
| | Advice on general occupational hygiene: | 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: | Store under 30°C, tightly closed. Keep away from food. According to TRGS 510, annex 9, regulation for small quantities.
(LGK) (VCI) 3 |
| | Storage class: | |
| 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: | TRGS 905/TRGS 900 |
| | Limit value type (country of origin): | (AGW): 960 mg/m ³ respectively. 500 ml/m ³ (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. |
| | Substance: | Isopropanol |
| | CAS-Nr.: | 67-63-0 |
| | Specification: | TRGS 900 |
| | Limit value type (country of origin): | 200 ml/m ³ / 500 mg/m ³ |





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Peak Limitation:	Exceedance factor category II – substances with resorptive effect
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:	 <p>Wear tight fitting goggles.</p>
Skin protection:	
Hand protection:	<p>The glove material has to be impermeable and resistant to the product.</p> <p>Full contact: Gloves made of butyl rubber. Layer thickness: ≥ 0,7 mm Penetration time: ≥ 60 min</p>  <p>Splash contact: Gloves made of nitrile rubber Layer thickness: 0,40 mm Penetration time: < 120 min.</p>
Body protection:	Wear adequate working clothes.
Respiratory 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.
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 Physical state:	Liquid
Aggregate state:	Transparent
Colour:	Characteristic
Odour:	No data available.
Odour threshold:	Not determined.
pH-value:	-114 °C
Melting point / freezing point:	78 °C
Initial boiling point/boiling range:	29 °C
Flash point:	No data available.
Evaporation rate:	Not determined.
Flammability:	Not classified as being explosive.
Upper/lower explosive limits:	59 hPa when 20 °C
Vapour pressure:	No data available.
Vapour density:	n.b.
Relative density:	Unlimited miscibility
Solubility:	n.b.
Partition coefficient:	
n-octanol/water:	



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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	
Physical hazards 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:	Not determined.
10.4 Conditions to avoid:	Storing for a longer space of time over 45°C.
10.5 Materials and conditions to avoid:	Strong oxidants.
10.6 Hazardous decomposition products.	None if stored at room temperature.
11. Toxicological Information:	
11.1 Information on toxicological effects	
Acute toxicity:	LD50 rat: 10.470 mg/kg OECD test guideline 401
Skin irritation:	Symptoms: slight irritation of mucous membrane 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 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, anesthesia. In case of skin contact: dryness In case of inhalation: euphoria In case of eye contact: irritation Follow the usual instructions when dealing with chemicals.



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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.
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)
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:	Ethanol
ADR/RID:	Ethanol
IMDG-Code / ICAO-TI / IATA-DGR:	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: NO Marine Pollutant: 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	Not regulated.
(substances that deplete the ozone layer):	
Directive (EC) no. 850/2004	Not regulated.
(persistent organic pollutants):	
Directive (EC) no. 689/2008	Not regulated.
(export and import of dangerous chemicals):	
Directive (EC) no. 648/2004	Not regulated.
(detergent regulation):	



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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.

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/m³ peak limit value 2 if one meets the AGW- und BGW values.

No risk of reproductional 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:

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.

Indication of changes:

Abbreviations:

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: I F I N 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.