

# EU – Safety Data Sheet



Page 1 of 7

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

Date of issue: 23.04.2015

Printing date: 24.08.2020

Date of revision: 22.01.2016

Version 3

Replaces version: 2

## HinriScan thinner

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

#### 1.1 Identification of the substance or preparation:

Commercial product name: HinriScan thinner

#### 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 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](mailto:info@hinrichs-dental.de) / [www.hinrichs-dental.de](http://www.hinrichs-dental.de)

Further information obtainable from:

ERNST HINRICHS Dental GmbH

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](http://www.ivoclarvivadent.co.nz)

0800 764 766 (National Poison Centre)

Poisons Hotline (24 hours / 7 days)

#### 1.4 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 ( $\leq 125$  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.



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

Date of issue: 23.04.2015

Printing date: 24.08.2020

Date of revision: 22.01.2016

Version 3

Replaces version: 2

**HinriScan thinner**

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.

**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:

Not applicable.

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:

In general: take off contaminated clothing.  
 After inhalation: 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 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:

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.



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

Date of issue: 23.04.2015

Printing date: 24.08.2020

Date of revision: 22.01.2016

Version 3

Replaces version: 2

**HinriScan thinner**

**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.

For emergency responders: Personal protective equipment: respiratory equipment working independently from its ambient environment

6.2 Environmental precautions: 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! 

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:

Store under 30°C, tightly closed. Keep away from food.

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

Specification:

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.

Substance: Isopropanol

; CAS-Nr. : 67-63-0

Specification:

TRGS 900

Limit value type (country of origin):

200 ml/m<sup>3</sup> / 500 mg/m<sup>3</sup>

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.

# EU – Safety Data Sheet



Page 4 of 7



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: 24.08.2020  
Replaces version: 2

## HinriScan thinner

Source (TRGS)	Not determined
8.2 Exposure controls	
Appropriate engineering controls	
Personal protective equipment	
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: $\geq 0,7$ mm Penetration time: $\geq 60$ min 
Body protection:	Splash contact: Gloves made of nitrile rubber Layer thickness: 0,40 mm Penetration time: $< 120$ min. 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 $45^{\circ}\text{C}$ for a longer space of time.
Environmental exposure controls :	Not determined.

## 9. Physical and chemical properties:

9.1 General information:	
Aggregate state:	Liquid
Colour:	Transparent
Odour:	Characteristic
Odour threshold:	No data available.
pH-value:	Not determined
Melting point / Melting range:	$-114,5^{\circ}\text{C}$
Initial boiling point/boiling range:	$78^{\circ}\text{C}$
Flash point:	$29^{\circ}\text{C}$
Evaporation rate:	No data available.
Flammability:	Not determined
Upper/lower explosive limits:	Not classified as being explosive
Vapour pressure :	59 hPa when $20^{\circ}\text{C}$
Vapour density:	No data available
Relative density:	n.b.
Solubility:	Unlimited miscibility
Partition coefficient:	n.b.
n-octanol/water:	
Auto-ignition temperature:	$425^{\circ}\text{C}$
Decomposition temperature:	No data available
Viscosity:	n.b.
explosive properties:	Not classified as explosive
Oxidising properties:	none
9.2 Other information:	

# EU – Safety Data Sheet



Page 5 of 7

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: 24.08.2020  
Replaces version: 2

## HinriScan thinner

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 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
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:	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 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.

# EU – Safety Data Sheet



Page 6 of 7

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

Date of issue: 23.04.2015

Printing date: 24.08.2020

Date of revision: 22.01.2016

Version 3

Replaces version: 2

## HinriScan thinner

- 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  
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.**  
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.

## EU – Safety Data Sheet



Page 7 of 7

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

Date of issue: 23.04.2015

Printing date: 24.08.2020

Date of revision: 22.01.2016

Version 3

Replaces version: 2

### HinriScan thinner

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.