

# EG-MATERIAL SAFETY DATA SHEET



according to 1907/2006/EC, Article 31  
Revision: 21.02.2023 Version number 2 (replaces version 1)

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Date of issue: 10.05.2023

## Hinriform 90 x-hard

### SECTION 1: Identification of the substance/mixture and of the company/ undertaking \*

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

Commercial product name: Hinriform 90 x-hard

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Application of the substance / the mixture: Product for dental technology

#### 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](mailto:info@hinrichs-dental.de) / [www.hinrichs-dental.de](http://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 (Mon-Fri. 8 a.m. - 4 p.m.)

### SECTION 2: Hazards identification \*

#### 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008:** The product is not classified according to the CLP regulation.

#### 2.2 Label elements

**Labelling according to Regulation (EC) No 1272/2008:** Void

**Hazard pictograms:** Void

**Signal word:** Void

**Hazard statements:** Void

**Additional information:** This Product contains a substance which is classified as STOT RE 1. Due to its physical form, exposure through inhalation is not expected (Regulation (EC) No 1272/2008 (CLP) - Annex I, 1.1.1.5).

#### 2.3 Other hazards:

**Results of PBT and vPvB assessment:** This substance/mixture does not contain components classified as either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**PBT:** Not applicable.

**vPvB:** Not applicable.

#### Determination of endocrine-disrupting properties

Endocrine disrupting properties - human health: The substance/mixture does not contain any components that exhibit endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1% or more.

Endocrine disrupting properties - Environment: The substance/mixture does not contain any components that exhibit endocrine disrupting properties according to REACH Article 57(f) or

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Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1% or more.

### SECTION 3: Composition/information on ingredients

- 3.1 Chemical characterisation:** Mixtures  
**Description:** Mixture of substances listed below with non-hazardous additions.

| Dangerous components: |                                  |                                                                                                   |        |
|-----------------------|----------------------------------|---------------------------------------------------------------------------------------------------|--------|
| EINECS: 238-455-4     | Cristobalite<br>(CAS 14464-46-1) |  STOT RE 1, H372 | 25-50% |

**Additional information:** For the wording of the listed risk phrases refer to section 16.

### SECTION 4: First aid measures

- 4.1 Description of first aid measures**  
**General information:** No special measures required.  
**After inhalation:** Supply fresh air; consult doctor in case of complaints.  
**After skin contact:** Generally the product does not irritate the skin.  
**After eye contact:** Rinse opened eye for several minutes under running water.  
**After swallowing:** If symptoms persist consult doctor.
- 4.2 Most important symptoms and effects, both acute and delayed:** No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed:** No further relevant information available.

### SECTION 5: Firefighting measures

- 5.1 Extinguishing media:**  
**Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- 5.2 Special hazards arising from the substance or mixture:** No further relevant information available
- 5.3 Advice for firefighters:**  
**Protective equipment:** No special measures required.

### SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures:** Not required.
- 6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

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**6.4 Reference to other sections:** See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

### SECTION 7: Handling and storage

|                                                                         |                                            |
|-------------------------------------------------------------------------|--------------------------------------------|
| <b>7.1 Precautions for safe handling:</b>                               | No special measures required.              |
| <b>Information about fire - and explosion protection:</b>               | No special measures required.              |
| <b>7.2 Conditions for safe storage, including any incompatibilities</b> |                                            |
| <b>Storage:</b>                                                         |                                            |
| <b>Requirements to be met by storerooms and receptacles:</b>            | No special requirements.                   |
| <b>Information about storage in one common storage facility:</b>        | Not required.                              |
| <b>Further information about storage conditions:</b>                    | None.                                      |
| <b>7.3 Specific end use(s):</b>                                         | No further relevant information available. |

### SECTION 8: Exposure controls/personal protection

|                                                                                |                                                                                                                                                                                                                                                                                                                                                                |
|--------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>8.1 Control parameters</b>                                                  |                                                                                                                                                                                                                                                                                                                                                                |
| <b>Additional information about design of technical facilities:</b>            | No further data; see item 7.                                                                                                                                                                                                                                                                                                                                   |
| <b>Ingredients with limit values that require monitoring at the workplace:</b> | The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.                                                                                                                                                                                                                             |
| <b>Additional information:</b>                                                 | The lists valid during the making were used as basis.                                                                                                                                                                                                                                                                                                          |
| <b>8.2 Exposure controls</b>                                                   |                                                                                                                                                                                                                                                                                                                                                                |
| <b>Personal protective equipment:</b>                                          |                                                                                                                                                                                                                                                                                                                                                                |
| <b>General protective and hygienic measures:</b>                               | The usual precautionary measures are to be adhered to when handling chemicals.                                                                                                                                                                                                                                                                                 |
| <b>Respiratory protection:</b>                                                 | Not required.                                                                                                                                                                                                                                                                                                                                                  |
| <b>Protection of hands:</b>                                                    | The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.<br>Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation: |
| <b>Material of gloves:</b>                                                     | The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.            |

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|                                            |                                                                                                                       |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| <b>Penetration time of glove material:</b> | The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. |
| <b>Eye protection:</b>                     | Goggles recommended during refilling.                                                                                 |

### SECTION 9: Physical and chemical properties

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#### 9.1 Information on basic physical and chemical properties

|                                                                  |                                    |
|------------------------------------------------------------------|------------------------------------|
| <b>General Information:</b>                                      |                                    |
| <b>Physical state:</b>                                           | Fluid                              |
| <b>Colour:</b>                                                   | According to product specification |
| <b>Odour:</b>                                                    | Characteristic                     |
| <b>Odour threshold:</b>                                          | Not determined.                    |
| <b>Melting point/freezing point:</b>                             | Undetermined.                      |
| <b>Boiling point or initial boiling point and boiling range:</b> | Undetermined.                      |
| <b>Flammability:</b>                                             | Not applicable.                    |
| <b>Lower and upper explosion limit</b>                           |                                    |
| <b>Lower:</b>                                                    | Not determined.                    |
| <b>Upper:</b>                                                    | Not determined.                    |
| <b>Flash point:</b>                                              | 367 °C                             |
| <b>Ignition temperature:</b>                                     | 425 °C                             |
| <b>Decomposition temperature:</b>                                | Not determined.                    |
| <b>pH:</b>                                                       | Not determined.                    |
| <b>Viscosity:</b>                                                |                                    |
| <b>Kinematic viscosity</b>                                       | Not determined.                    |
| <b>Dynamic:</b>                                                  | Not determined.                    |
| <b>Solubility</b>                                                |                                    |
| <b>water:</b>                                                    | Not miscible or difficult to mix.  |
| <b>Partition coefficient n-octanol/water (log value):</b>        | Not determined.                    |
| <b>Vapour pressure:</b>                                          | Not determined.                    |
| <b>Density and/or relative density</b>                           |                                    |
| <b>Density:</b>                                                  |                                    |
| <b>Relative density:</b>                                         | Not determined.                    |
| <b>Vapour density:</b>                                           | Not determined.                    |

#### 9.2 Other information

|                                                                                      |                                               |
|--------------------------------------------------------------------------------------|-----------------------------------------------|
| <b>Appearance:</b>                                                                   |                                               |
| <b>Form:</b>                                                                         | Pasty                                         |
| <b>Important information on protection of health and environment, and on safety.</b> |                                               |
| <b>Auto-ignition temperature:</b>                                                    | Product is not selfigniting.                  |
| <b>Explosive properties:</b>                                                         | Product does not present an explosion hazard. |
| <b>Solvent content:</b>                                                              |                                               |
| <b>VOC (EC):</b>                                                                     | 0.00 %                                        |
| <b>Solids content:</b>                                                               | 81.5 %                                        |
| <b>Change in condition</b>                                                           |                                               |
| <b>Evaporation rate:</b>                                                             | Not determined.                               |
| <b>Information with regard to physical hazard classes</b>                            |                                               |
| <b>Explosives:</b>                                                                   | Void                                          |
| <b>Flammable gases</b>                                                               | Void                                          |
| <b>Aerosols:</b>                                                                     | Void                                          |
| <b>Oxidising gases:</b>                                                              | Void                                          |
| <b>Gases under pressure:</b>                                                         | Void                                          |
| <b>Flammable liquids:</b>                                                            | Void                                          |
| <b>Flammable solids:</b>                                                             | Void                                          |

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|                                                                            |      |
|----------------------------------------------------------------------------|------|
| Self-reactive substances and mixtures:                                     | Void |
| Pyrophoric liquids:                                                        | Void |
| Pyrophoric solids:                                                         | Void |
| Self-heating substances and mixtures:                                      | Void |
| Substances and mixtures, which emit flammable gases in contact with water: | Void |
| Oxidising liquids:                                                         | Void |
| Oxidising solids:                                                          | Void |
| Organic peroxides:                                                         | Void |
| Corrosive to metals:                                                       | Void |
| Desensitised explosives:                                                   | Void |

### SECTION 10: Stability and reactivity

|                                                   |                                                       |
|---------------------------------------------------|-------------------------------------------------------|
| 10.1 Reactivity                                   | No further relevant information available.            |
| 10.2 Chemical stability                           |                                                       |
| Thermal decomposition / conditions to be avoided: | No decomposition if used according to specifications. |
| 10.3 Possibility of hazardous reactions           | No dangerous reactions known.                         |
| 10.4 Conditions to avoid                          | No further relevant information available.            |
| 10.5 Incompatible materials:                      | No further relevant information available.            |
| 10.6 Hazardous decomposition products:            | No dangerous decomposition products known.            |

### SECTION 11: Toxicological information

|                                                                           |                                                                   |
|---------------------------------------------------------------------------|-------------------------------------------------------------------|
| 11.1 Information on toxicological effects                                 |                                                                   |
| Acute toxicity:                                                           | Based on available data, the classification criteria are not met. |
| Primary irritant effect:                                                  |                                                                   |
| Skin corrosion/irritation:                                                | Based on available data, the classification criteria are not met. |
| Serious eye damage/irritation:                                            | Based on available data, the classification criteria are not met. |
| Respiratory or skin sensitisation:                                        | Based on available data, the classification criteria are not met. |
| CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction) |                                                                   |
| Germ cell mutagenicity:                                                   | Based on available data, the classification criteria are not met. |
| Carcinogenicity:                                                          | Based on available data, the classification criteria are not met. |
| Reproductive toxicity:                                                    | Based on available data, the classification criteria are not met. |
| STOT-single exposure:                                                     | Based on available data, the classification criteria are not met. |

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|                                |                                                                   |
|--------------------------------|-------------------------------------------------------------------|
| <b>STOT-repeated exposure:</b> | Based on available data, the classification criteria are not met. |
| <b>Aspiration hazard:</b>      | Based on available data, the classification criteria are not met. |

### 11.2 Information on other hazards

#### Endocrine disrupting properties:

Endocrine disrupting properties - human health: The substance/mixture does not contain any components that exhibit endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1% or more.  
None of the ingredients is listed.

## SECTION 12: Ecological information

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|                                                 |                                                                                                                                                                                                                                                                                                                      |
|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>12.1 Toxicity</b>                            |                                                                                                                                                                                                                                                                                                                      |
| <b>Aquatic toxicity:</b>                        | No further relevant information available.                                                                                                                                                                                                                                                                           |
| <b>12.2 Persistence and degradability</b>       | No further relevant information available.                                                                                                                                                                                                                                                                           |
| <b>12.3 Bioaccumulative potential</b>           | No further relevant information available.                                                                                                                                                                                                                                                                           |
| <b>12.4 Mobility in soil</b>                    | No further relevant information available.                                                                                                                                                                                                                                                                           |
| <b>12.5 Results of PBT and vPvB assessment:</b> | This substance/mixture does not contain components classified as either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.                                                                                                                  |
| <b>PBT:</b>                                     | Not applicable.                                                                                                                                                                                                                                                                                                      |
| <b>vPvB:</b>                                    | Not applicable.                                                                                                                                                                                                                                                                                                      |
| <b>12.6 Endocrine disrupting properties:</b>    | Endocrine disrupting properties - Environment: The substance/mixture does not contain any components that exhibit endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1% or more. |
| <b>12.7 Other adverse effects</b>               |                                                                                                                                                                                                                                                                                                                      |
| <b>Additional ecological information:</b>       |                                                                                                                                                                                                                                                                                                                      |
| <b>General notes:</b>                           | Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water<br>Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.                                                                                                           |

## SECTION 13: Disposal considerations

|                                     |                                                             |
|-------------------------------------|-------------------------------------------------------------|
| <b>13.1 Waste treatment methods</b> |                                                             |
| <b>Recommendation</b>               | Smaller quantities can be disposed of with household waste. |
| <b>Uncleaned packaging:</b>         |                                                             |
| <b>Recommendation:</b>              | Disposal must be made according to official regulations.    |

## SECTION 14: Transport information

### 14.1 UN-Number

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|                                                                                 |                 |
|---------------------------------------------------------------------------------|-----------------|
| ADR, ADN, IMDG, IATA:                                                           | Void            |
| 14.2 UN proper shipping name<br>ADR, ADN, IMDG, IATA:                           | Void            |
| 14.3 Transport hazard class(es)<br>ADR, ADN, IMDG, IATA:<br>Class:              | Void            |
| 14.4 Packing group<br>ADR, IMDG, IATA:                                          | Void            |
| 14.5 Environmental hazards:                                                     | Not applicable. |
| 14.6 Special precautions for user                                               | Not applicable. |
| 14.7 Transport in bulk according to Annex II<br>of MARPOL73/78 and the IBC Code | Not applicable. |
| UN "Model Regulation":                                                          | Void            |

### SECTION 15: Regulatory information

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Directive 2012/18/EU

Named dangerous substances - ANNEX I

None of the ingredients is listed.

DIRECTIVE 2011/65/EU on the restriction of  
the use of certain hazardous substances in  
electrical and electronic equipment –  
Annex II:

None of the ingredients is listed.

REGULATION (EU) 2019/1148

Annex I - RESTRICTED EXPLOSIVES  
PRECURSORS (Upper limit value for the  
purpose of licensing under Article 5(3)):

None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES  
PRECURSORS:

None of the ingredients is listed.

Regulation (EC) No 273/2004 on drug  
precursors:

None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down  
rules for the monitoring of trade between  
the Community and third countries in drug  
precursors:

None of the ingredients is listed.

#### 15.2 Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other 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.

Relevant phrases

H372 Causes damage to organs through prolonged or repeated exposure.

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**Version number of previous version:** 1

## Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route  
(European Agreement Concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
VOC: Volatile Organic Compounds (USA, EU)  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1

**Sources:** The data for the hazardous ingredients were taken respectively from the last version of Safety Data Sheets of suppliers.

**\* Data compared to the previous version altered.**