



according to 1907/2006/EC, Article 31

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Hinriform 90 x-hard

1. Identification of the Substance / Preparation and Company:

- 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: No further relevant information available.
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 / 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 (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
- 2.3 Other hazards:
Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.

3. Composition/ information on ingredients

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

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

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

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.

5. Fire Fighting measures:

- 5.1 Extinguishing media:



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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.
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).
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.
7. Handling and Storage:	
7.1 Precautions for safe handling: Information about fire - and explosion protection:	No special measures required. No special measures required.
7.2 Conditions for safe storage, including any incompatibilities - Storage: Requirements to be met by storerooms and receptacles: Information about storage in one common storage facility: Further information about storage conditions:	No special requirements. Not required. None.
7.3 Specific end use(s):	No further relevant information available.
8. Exposure controls / Personal protection:	
Additional information about design of technical facilities:	No further data; see item 7.
8.1 Control parameters Ingredients with limit values that require monitoring at the workplace:	The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
Additional information:	The lists valid during the making were used as basis.
8.2 Exposure controls Personal protective equipment: General protective and hygienic measures: Respiratory protection: Protection of hands:	The usual precautionary measures are to be adhered to when handling chemicals. Not required. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. 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:
Material of gloves:	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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Penetration time of glove material: The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
Eye protection: Goggles recommended during refilling.

9. Physical and chemical properties:

9.1 Information on basic physical and chemical properties

Appearance:
Form: Pasty
Colour: base: turquoise
catalyst: light-grey
Odour: Characteristic
Odour threshold: Not determined.
pH-value: Not determined.
Change in condition
Melting point/Melting range: Undetermined.
Boiling point/Boiling range: Undetermined.
Flash point: 367°C
Flammability (solid, gaseous): Not applicable.
Ignition temperature: 425°C
Decomposition temperature: Not determined.
Self-igniting: Product is not self-igniting.
Danger of explosion: Product does not present an explosion hazard.
Explosion limits:
Lower: Not determined.
Upper: Not determined.
Vapour pressure: Not determined.
Density at 23 °C: 1.8 g/cm³
Relative density: Not determined.
Vapour density: Not determined.
Evaporation rate: Not determined.
Solubility in / Miscibility with water: Not miscible or difficult to mix.
Partition coefficient (n-octanol/water): Not determined.
Viscosity:
Dynamic: Not determined.
Kinematic: Not determined.
Solvent content:
Organic solvents: 0.0 %
VOC (EC) 0.00 %
Solids content: 81.5 %

9.2 Other information No further relevant information available.

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.

11. Toxicological information

11.1 Information on toxicological effects
Acute toxicity: Based on available data, the classification criteria are not met.
Primary irritant effect:



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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 (carcinogenity, mutagenicity and toxicity for reproduction)	Based on available data, the classification criteria are not met.
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.
STOT-repeated exposure:	Based on available data, the classification criteria are not met.
Aspiration hazard:	Based on available data, the classification criteria are not met.

12. Ecological information

12.1 Toxicity	
Aquatic toxicity:	No further relevant information available.
12.2 Persistence and degradability	No further relevant information available.
12.3 Bioaccumulative potential	No further relevant information available.
12.4 Mobility in soil	No further relevant information available.
Additional ecological information:	
General notes:	Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Results of PBT and vPvB assessment	
PBT:	Not applicable.
vPvB:	Not applicable.
12.6 Other adverse effects	No further relevant information available.

13. Disposal considerations

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

14. Transport information

14.1 UN-Number	
ADR, ADN, IMDG, IATA:	Void
14.2 UN proper shipping name	
ADR, ADN, IMDG, IATA:	Void
14.3 Transport hazard class(es)	
ADR, ADN, IMDG, IATA:	
Class:	Void
14.4 Packing group	
ADR, IMDG, IATA:	Void
14.5 Environmental hazards:	
Marine pollutant:	No
14.6 Special precautions for user	Not applicable.
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
UN "Model Regulation":	Void

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.
15.2 Chemical safety assessment:	A Chemical Safety Assessment has not been carried out.

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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.

Abbreviations and acronyms:

ADR: Accord européen sur le transport 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

* Data compared to the previous version altered.