



**HinriDon powder**

**1. Identification of the Substance / Preparation and Company:**

Identification of the substance or preparation:

Commercial product name:

**HinriDon**

Use / Purpose

Denture Base Resin, hot-curing acrylic, powder component of the 2-component acrylic system based on methyl methacrylate (powder and liquid), for the purpose of crafting individual dentures.

Company / Manufacturer:

ERNST HINRICHS GmbH

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**2. Hazards Identification:**

No particular hazards known.

**3. Composition / Information on Ingredients:**

Chemical characterization:

Acrylic polymer on the basis of methyl methacrylate.

**4. First aid measures:**

General Information

Remove contaminated clothing.

After inhalation:

In case of complaints get medical treatment.

After contact with the skin:

Wash off with water and soap. Consult a physician if irritation resists.

After contact with the eyes:

Flush eyes thoroughly with a large amount of water and consult a physician.

After swallowing:

Rinse out mouth and give plenty of water to drink. Obtain medical advice.

**5. Fire Fighting measures:**

5.1 Suitable extinguishing media:

Foam, dry chemical, carbon dioxide, water spray.

5.2 Unsuitable extinguishing media for safety reasons:

Full water jet

5.3 Special protective equipment for fire fighting:

Wear self-contained breathing apparatus.

**6. Accidental release measures:**

6.1 Precautionary measures related to people:

Assure appropriate air-flow. Use breathing apparatus if exposed to vapours/dust/mist/aerosol. Use protective clothing. Keep away from ignition sources. High risk of slipping due to leakage/spillage of product.

6.2 Methods of cleaning / adsorption:

Take up mechanically. Dispose of in accordance with regulations.

**7. Handling and Storage:**

7.1 Instructions on safe handling:

Avoid the formation and deposition of dust.

7.2 Information on fire and explosion protection:

In the event of fire, cool the endangered containers with water.

7.3 Storage:

Requirements for storage areas and containers:

Keep only the original container at a temperature not exceeding 30°C. Protect from sun. Storage: dry.

**8. Exposure controls / Personal protection:**

Occupational exposure controls:

For monitoring procedures refer to for instance "NIOSH Manual of Analytical Methods", National Institute for Occupational Safety and Health.



**MATERIAL SAFETY DATA SHEET**  
According to (EG) 1907/2006 (REACH)  
**ERNST HINRICHS GmbH**

Date of printing: 26.01.2012

reviewed on: 01.08.2009

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Personal protective equipment :	
General protective measures:	Do not inhale dust. Avoid contact with eyes and skin.
Respiratory protection:	Respiratory protection in case of dust formation, short term: filter appliance, filter P2.
Hand protection:	Butyl rubber gloves
Eye protection:	Tightly fitting goggles
Hygiene measures:	Remove contaminated clothing. Store work clothing separately. Follow the usual good standards of occupational hygiene. Clean skin clearly after work; apply skin cream.
General information:	Gloves should be changed regularly, especially after over excessive contact with the product. A different type of glove should be considered for each workspace.

**9. Physical and chemical properties:**

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9.1 Appearance	
Form:	Powder
Colour:	According the product specification
Odour:	Odourless
9.2 Changes in physical state:	
Softening temperature:	approx. 110 °C
Melting point:	not applicable
Flashpoint:	~ 390 °C
Ignition temperature:	~ 465 °C
Self ignition ability:	not applicable
lower explosion limit:	not determined
upper explosion limit:	not determined
Vapour pressure:	not applicable
Density	1,1 – 1,2 g/cm <sup>3</sup> (at 20 °C)
bulk density:	600 to 750 kg/m <sup>3</sup> (at 20 °C)
solubility in water:	insoluble
solubility in oil:	not determined
qualitative solubility:	in esters, ketenes and chlorinated hydrocarbons readily soluble
pH-value:	not applicable
dynamic viscosity:	not applicable
Additional information	Dust explosions are generally to be expected with dust-forming organic products.

**10. Stability and Reactivity:**

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Thermal decomposition:	> 250 °C
Hazardous reactions:	No hazardous reactions known.
Hazardous decomposition products:	None when used as directed. During thermal decomposition combustible, the eyes and respiratory system irritating vapours are formed, consisting mainly of <b>methyl methacrylate, methyl acrylate, n-utyl methacrylate.</b>

**11. Toxicological Information:**

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Acute oral toxicity:	There is no toxicological data available for this product.
General information:	The product contains small amounts of sensitizing (see chapter 15). After intensive contact with the skin, especially with the dissolved product, these substances may produce an allergic reaction to persons already sensitized. The fine particles contained in the product may cause mechanical irritations of the skin, eyes and mucous membranes. Avoid skin and eye contact and inhalation of product dust/aerosols.



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**12. Ecological Information:**

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General information:	The product has not been tested ecotoxicologically. On the basis of the products consistency as well as its low water solubility a bioavailability is unlikely. Studies on products with similar composition confirm this assumption. Do not allow to enter in soil, waterways or waste water.
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**13. Disposal considerations:**

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Product	Waste is non-hazardous. It should be disposed of in accordance with the regulations after consultation of the competent local authorities and the disposal company in a suitable and licensed facility.
Uncleaned packaging	Contaminated packaging should be emptied optimally and after appropriate professional cleansing may be taken for reuse. Packaging that cannot be cleaned should be disposed of professionally. Uncontaminated packaging may be taken for recycling.
Code of waste EWC	<b>18 01 07</b> Wastes from natal care, diagnosis, treatment or prevention of disease in humans – chemical other than those mentioned in 18 01 06 Always check the given waste codes according to the actual conditions of manufacturing, formulation or use in your facilities.

**14. Transport / additional information:**

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Not a dangerous good within the meaning of transportation regulations.

**15. Regulations:**

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Labelling in accordance with directive 1999/45/EC:	Not applicable
Special provisions for certain preparations according to directive 1999/45/EC annex V part B:	“Contains methyl methacrylate, dibenzoyl peroxide. May produce an allergic reaction.”

**16. Further Information:**

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Miscellaneous information	None
References	Relevant manuals and publications, Toxicological and ecotoxicological studies of other manufactures, SIAR, OECD-SIDS, RTK public files

The above information describes exclusively the safety requirements of the product(s) and is based on our present-day knowledge. It does not represent a guarantee for the properties of the product(s) described in terms of the legal warranty regulations. Properties of the product are to be found in the respective product leaflet.