

# EU – Safety Data Sheet



Page 1 of 3

Printing date: 20.09.2011

According to 91/155/EC (REACH)

Date of issue: 01.07.2008

## Setting retarder

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

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Identification of the substance or preparation:

Commercial product name: Setting retarder

Company / Manufacturer: ERNST HINRICHS GmbH  
Borsigstr. 1  
D - 38644 Goslar  
0 53 21 / 5 06 24  
0 53 21 / 5 08 81  
info@hinrichs-dental.de / www.hinrichs-dental.de

### 2. Composition / Information on Ingredients:

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2.1 Chemical characterisation: Yellow dextrin based on potato starch.  
2.2 CAS-no.: 9004-53-9 potato starch  
2.3 EINECS-no.: 232-675-4

### 3. Hazards Identification:

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3.1 Hazard description: Not applicable.  
3.2 Information concerning particular hazards for human and environment: None.

### 4. First aid measures:

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4.1 After inhalation: Supply fresh air. If symptoms persist consult a doctor.  
4.2 After skin contact: Wash off immediately.  
4.3 After eye contact: Rinse open eye for several minutes under running water.  
4.4 After swallowing: Rinse out mouth and drink plenty of water.

### 5. Fire Fighting measures:

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5.1 Suitable extinguishing agents: All extinguishing agents are suitable. The product itself is not combustible.  
5.2 Specific hazards due to the product itself, its combustion products or resulting gases: In case of fire carbon dioxide can be released.  
5.3 Specific protective equipment for fire-fighting: Choose protective clothing according to the fires environment.

### 6. Accidental release measures:

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6.1 Personal safety precautions: With water product causes slippery surfaces.  
6.2 Environmental precautions: No special measures required.  
6.3 Methods for cleaning up: Pick-up mechanically and wipe up the rest with water. Avoid dust formation. Use suitable containers for transporting the spillage to disposal or recycling.  
6.4 Additional information: No release of hazardous substances.

### 7. Handling and Storage:

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7.1 Handling:  
Information for safe handling: The usual precautions are to be adhered when handling with chemicals.  
7.2 Information about fire- and explosion protection:  
Storage: By working with powdery organic substances there is always a risk of dust explosions.  
Store in tightly sealed containers in a cool and dry place.



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| 7.3 | Requirements to be met by storerooms and containers:      | Store the product cool and dry and protect it from extreme weather conditions. Seek section 6 for disposals of unusable materials. The packaging should be tightly sealed and undamaged. If possible, dust should be removed with an exhaust system. Avoid excessive dust formation. Regular dust extraction is recommended. |
| 7.4 | Information about storing in one common storage facility: | Not applicable.  |
| 7.5 | Further information about storage conditions:             | Store dry.   |

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

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|-----|--|---|
| 8.1 | Additional information according to technical installations:<br>Ingredients with limit values that require monitoring at the workplace:<br>Additional information:   | Exhaust is necessary in case of dust formation.<br>-<br>The lists valid during the making were used as basis.   |
| 8.2 | Personal protective equipment:<br>General protective and hygienic measures:<br>Breathing protections:<br>Hand protection:<br><br>Material of gloves:<br><br>Penetration time of glove material:<br><br>Eye protection:<br>Body protection: | Observe general protective and hygienic measures below. The usual precautions are to be adhered when handling with chemicals. Do not inhale dust. Avoid dust formation. In case of dust swirls use a respiratory device. Protective gloves for handling chemicals. The glove material has to be impermeable and resistant to the product / the substance / the preparation. Before using the gloves make sure they are intact. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. The selection of 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 contains different substances the consistency of the glove material is has to be checked before use if it is compatible. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.<br>Not applicable.<br>Standard protective clothing. |

**9. Physical and chemical properties:**

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|-----|---|--|
| 9.1 | Appearance:<br>Physical state:<br>Colour:<br>Odour:   | Powder<br>Yellow<br>Characteristic   |
| 9.2 | Change in condition:<br>Melting point / Melting range:<br>Boiling point or range:<br>Flash point:<br>Self-ignitability:<br>Danger of explosion:<br>Vapour pressure:<br>Density:<br>Bulk density at 20°C:<br>Solubility in / miscible with water:<br><br>PH-value (350 g/l) at 20°C: | Not determined.<br>Not determined.<br>Until combustion no change of the solid condition.<br>The product is not self-igniting.<br>The product is not explosive.<br>-<br>Not determined.<br>800 kg/m <sup>3</sup><br>>99, 5 % dispersible in cold water (20°C).<br>Colloidal dispersible in hot water (>75°C)<br>2,5 |



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**10. Stability and Reactivity:**

10.1 Thermal decomposition / conditions to avoid:	Keep away from ignition sources. Do not smoke.
10.2 Substances to avoid:	None.
10.3 Hazardous reactions:	No hazardous reactions known.
10.4 Hazardous decomposition products:	No hazardous decompositions known.

**11. Toxicological Information:**

Acute toxicity:	-
11.1 Primary irritant effect:	-
On the skin:	Not irritating.
On the eye:	Not irritating.
Sensitisation:	No sensitizing effects known.
11.2 Further information (experimental toxicology):	The product is not toxic and does not contain toxic substances.
11.3 Additional toxicological information:	The product does not have to be labelled according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version. Based on our experience and our knowledge the product has no harmful effects when used and handled according to specifications.

**12. Ecological Information:**

12.1 Information on elimination:	
Persistence and degradability:	Readily biodegradable. Under normal conditions product is biodegradable.
12.2 Behaviour in environmental systems:	
Mobility and bioaccumulation potential:	No bioaccumulation.
Further ecological information:	
CSB-value:	Approx. 1000 mg O <sub>2</sub> /g
BSB <sub>5</sub> -value:	Approx. 500 mg O <sub>2</sub> /g
Additional information:	Not hazardous to water according to Administrative Regulation on Hazardous Substances to Waters dated 17.05.1999 - number 1.2a

**13. Disposal Considerations:**

13.1 Product Recommendation:	Dispose as builders' waste, waste key code 31409
13.2 Waste key code:	Since 01.01.1999 the waste key codes are not only product related they are even more related to the use of the product. Please find the valid waste key code in the European waste key catalogue.
13.3 Uncleaned packaging:	Dispose according to local regulations.
13.4 Recommendation:	Empty the container thoroughly and give it cleaned into recycling. Dispose according to local regulations.

**14. Transport Information:**

14.1	Not a hazardous material according to transport regulations.
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**15. Regulatory Information:**

15.1 Designation according to EG guidelines:	The product does not have to be labelled according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version
15.2 National regulations:	
Classification VbF:	-
Water hazard class:	Generally the product is not hazardous to water.

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Date of issue: 01.07.2008

Page 4 of 3  
Printing date: 20.09.2011

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Further regulations, restrictions and forbidden orders:

The product generally does not have to be labelled, but local regulations were unconsidered.

#### 16. Further Information:

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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.