



According to 1907/2006 (REACH)

Rev.: 09/26.04.2017

**Splint Plus BioStar**

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

- 1.1 Product identifier:  
Commercial product name: Splint Plus BioStar
- 1.2 Relevant identified uses of the substance or mixture and uses advised against  
Use of the substance/mixture: Splint Plus BioStar are transparent dental milling blanks out of polycarbonate for the manufacture of splints, therapeutic splints, bite regulators and drilling templates for short-term application in the oral cavity up to 30 days.  
  
Uses advised against: No information available.
- 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
- 1.4 Further information obtainable from: ERNST HINRICHS Dental GmbH  
Emergency telephone number  
ERNST HINRICHS Dental GmbH: +49 (0) 53 21 / 5 06 24 - 25 (Mon-Fri. 8 a.m. – 4 p.m.)

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

- 2.1 Classification of the substance or mixture  
Regulation (EC) No. 1272/2008: This substance is not classified as hazardous according to Regulation (EC) No. 1272/2008.
- 2.2 Label Elements
- 2.3 Other hazards: No information available.

**3. Hazards Identification:**

- 3.1 Substances  
Chemical characterization: No information available.  
Further Information: No information available

**4. First aid measures:**

- 4.1 Description of first aid measures  
After inhalation: Remove person to fresh air and keep comfortable for breathing. In case of respiratory tract irritation, consult a physician.  
After contact with skin: After contact with skin, wash immediately with plenty of water and soap. If skin irritation occurs: Get medical advice/attention.  
After contact with eyes: Immediately rinse carefully with eye wash or with water. If eye irritation occurs, consult an ophthalmologist.  
After ingestion: IF SWALLOWED: Call a doctor if you feel unwell.
- 4.2 Most important symptoms and effects, both acute and delayed: No information available.
- 4.3 Indication of any immediate medical attention and special treatment needed: No information available.

**5. Fire Fighting measures:**

- 5.1 Extinguishing media  
Suitable extinguishing agent: Dry extinguishing powder. Carbon dioxide (CO2). Alcohol resistant foam. Water spray jet.  
Unsuitable extinguishing media: High power water jet.
- 5.2 Special hazards arising from the substance or mixture: In case of fire may be liberated: Carbon monoxide, Carbon dioxide, Nitrogen oxides (NOx).  
Possible in traces: Hydrogen cyanide (hydrocyanic acid)  
Do not inhale explosion and combustion gases.



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5.3 Advice for firefighters: Co-ordinate fire-fighting measures to the fire surroundings. In case of fire: Wear self-contained breathing apparatus.  
 Additional information: Do not allow run-off from fire-fighting to enter drains or water courses.

**6. Accidental release measures:**

6.1 Personal precautions, protective equipment and emergency procedures: Use personal protection equipment.  
 6.2 Environmental precautions: Do not allow to enter into surface water or drains.  
 6.3 Methods and material for containment and cleaning up: Take up mechanically. Avoid dust formation. Collect in closed and suitable containers for disposal.  
 6.4 Reference to other sections: See protective measures under point 7 and 8. Disposal: see section 13.

**7. Handling and Storage:**

7.1 Precautions for safe handling  
 Advice on safe handling: See section 8.  
 Advice on protection against fire and explosion: No special fire protection measures are necessary.  
 Further information on handling: Avoid dust formation. Protect from moisture. Provide adequate ventilation as well as local exhaust at critical locations. To follow: Occupational exposure limit values.  
 7.2 Conditions for safe storage, including any incompatibilities  
 Requirements for storage rooms and vessels: Keep/Store only in original container.  
 Advice on storage compatibility: Keep the packing dry and well-sealed to prevent contamination and absorption of humidity.  
 Further information on storage conditions: Keep away from: Frost, Heat  
 Handle with care - avoid bumps, friction and impact.  
 7.3 Specific end use(s): Splint Plus BioStar are transparent dental milling blanks out of polycarbonate for the manufacture of splints, therapeutic splints, bite regulators and drilling templates for short-term application in the oral cavity up to 30 days.

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

8.1 Control parameters  
 8.2 Exposure controls  
 Appropriate engineering controls: Technical ventilation of workplace.  
 Protective and hygiene measures: Work in well-ventilated zones or use proper respiratory protection.  
 Only wear fitting, comfortable and clean protective clothing.  
 Wash hands before breaks and after work.  
 Separate storage of work clothes.  
 Eye/face protection: Suitable eye protection:  
 Eye glasses with side protection goggles  
 Hand protection: Suitable gloves type:  
 NBR (Nitrile rubber) DIN EN 374,  
 Butyl caoutchouc (butyl rubber) DIN EN 374,  
 PVC (Polyvinyl chloride) Thickness of the glove material: >0,5 mm  
 Wear cotton under mitten if possible.  
 Breakthrough times and swelling properties of the material must be taken into consideration.  
 Skin protection: Protective clothing.  
 Respiratory protection: Particle filter device (DIN EN 143)



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**9. Physical and chemical properties:**

9.1	Information on basic physical and chemical properties	
	Physical state:	solid
	Colour:	transparent
	Odour:	odourless
		Test method
	pH-Value:	not determined
	Changes in the physical state	
	Melting point:	not determined
	Initial boiling point and boiling range:	not determined
	Sublimation point:	not determined
	Softening point:	not determined
	Pour point:	not determined
	Flash point:	not determined
	Flammability	
	Solid:	>450 °C
	Gas:	not applicable
	Explosive properties:	No information available.
	Lower explosion limits:	not applicable
	Upper explosion limits:	not applicable
	Auto-ignition temperature	
	Solid:	not determined
	Gas:	not determined
	Decomposition temperature:	not determined
	Oxidizing properties:	Not oxidizing.
	Vapour pressure:	not determined
	Density:	not determined
	Bulk density:	600-700 kg/m <sup>3</sup>
	Water solubility:	insoluble
	Solubility in other solvents:	No information available.
	Partition coefficient:	not applicable
	Viscosity/dynamic:	not determined
	Vapour density:	not determined
	Evaporation rate:	not determined
9.2	Other information:	No information available.

**10. Stability and Reactivity:**

10.1	Reactivity:	No information available.
10.2	Chemical stability:	No information available.
10.3	Possibility of hazardous reactions:	In case of fire may be liberated: Gases/vapours, harmful.
10.4	Conditions to avoid:	No information available.
10.5	Incompatible materials:	No information available.
10.6	Hazardous decomposition products:	Carbon dioxide (CO <sub>2</sub> ), CO

**11. Toxicological Information:**

11.1	Information on toxicological effects	
	Toxicokinetics, metabolism and distribution:	No information available.
	Acute toxicity:	Based on available data, the classification criteria are not met.
	Irritation and corrosivity:	Based on available data, the classification criteria are not met.
	Sensitising effects:	Based on available data, the classification criteria are not met.
	Carcinogenic/mutagenic/toxic effects for reproduction:	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.



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**12. Ecological Information:**

- |  |   |
|--|---|
| 12.1 Toxicity:                           | No information available.   |
| 12.2 Persistence and degradability:      | The product is: Not readily biodegradable (according to OECD criteria).                         |
| 12.3 Bioaccumulative potential:          | No information available.   |
| 12.4 Mobility in soil:                   | No information available.   |
| 12.5 Results of PBT and vPvB assessment: | The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII. |
| 12.6 Other adverse effects:              | No information available.   |

**13. Disposal Considerations:**

- |                              |  |
|------------------------------|--|
| 13.1 Waste treatment methods |  |
| Advice on disposal:          | Dispose of waste according to applicable legislation.  |
| Contaminated packaging:      | Dispose of waste according to applicable legislation. Non-contaminated packages may be recycled. |

**14. Transport Information:**

**Land transport (ADR/RID)**

- |                                  |  |
|----------------------------------|--|
| 14.1 UN number:                  | No dangerous good in sense of this transport regulation. |
| 14.2 UN proper shipping name:    | No dangerous good in sense of this transport regulation. |
| 14.3 Transport hazard class(es): | No dangerous good in sense of this transport regulation. |
| 14.4 Packing group:              | No dangerous good in sense of this transport regulation. |

**Inland waterways transport (ADN)**

- |                                  |  |
|----------------------------------|--|
| 14.1 UN number:                  | No dangerous good in sense of this transport regulation. |
| 14.2 UN proper shipping name:    | No dangerous good in sense of this transport regulation. |
| 14.3 Transport hazard class(es): | No dangerous good in sense of this transport regulation. |
| 14.4 Packing group:              | No dangerous good in sense of this transport regulation. |

**Marine transport (IMDG)**

- |                                  |  |
|----------------------------------|--|
| 14.1 UN number:                  | No dangerous good in sense of this transport regulation. |
| 14.2 UN proper shipping name:    | No dangerous good in sense of this transport regulation. |
| 14.3 Transport hazard class(es): | No dangerous good in sense of this transport regulation. |
| 14.4 Packing group:              | No dangerous good in sense of this transport regulation. |

**Air transport (ICAO)**

- |                                  |  |
|----------------------------------|--|
| 14.1 UN number:                  | No dangerous good in sense of this transport regulation. |
| 14.2 UN proper shipping name:    | No dangerous good in sense of this transport regulation. |
| 14.3 Transport hazard class(es): | No dangerous good in sense of this transport regulation. |
| 14.4 Packing group:              | No dangerous good in sense of this transport regulation. |

- |  |  |
|--|--|
| 14.5 Environmental hazards.  | No   |
| 14.6 Special precautions for user:                                       | No dangerous good in sense of this transport regulation. |
| 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code: | No dangerous good in sense of this transport regulation. |

**15. Regulatory Information:**

- |   |  |
|---|--|
| 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture |  |
| National regulatory information   |  |
| Water contaminating class (D):  | -- not water contaminating   |
| 15.2 Chemical safety assessment:  | Chemical safety assessments for substances in this mixture were not carried out. |



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**16. Further Information:**

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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)
RID:	Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IMDG:	International Maritime Code for Dangerous Goods
IATA:	International Air Transport Association
IATA-DGR:	Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO:	International Civil Aviation Organization
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO)
CAS:	Chemical Abstracts Service (division of the American Chemical Society)
GHS:	Globally Harmonized System of Classification and Labelling of Chemicals
CLP:	Regulation on Classification, Labelling and Packaging of Substances and Mixtures,
LC50:	Lethal concentration, 50 percent
LD50:	Lethal dose, 50 percent
EC50:	Effective concentration, 50 percent
DNEL:	Derived No Effect Level
PNEC:	Predicted No Effect Concentration
PBT:	Persistent, Bioaccumulative and Toxic
vPvB:	very Persistent and very Bioaccumulative

**Further Information**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material