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1. Identification of the substance/mixture and of the company/undertaking
Product Identifier
Trade name: Harvard Ionoresin Fill Extra – Liquid
Harvard Ionoresin Fill Extra OptiCaps <sup>®</sup> – Liquid
Use of the preparation: Dental product
Details of the supplier of the safety data sheet:
Manufacturer/supplier:
Harvard Dental International GmbH,
Margaretenstraße 2-4,
15366 Hoppegarten, Germany
info@harvard-dental-international.de
Emergency telephone number:
+ 49 (0) 30 99 28 978-0 (Quality Management)
2. Hazards identification
Classification of the substance or mixture:
Classification according to Regulation (EC) No 1272/2008:
Skin Irrit. 2, H315 Causes skin irritation
Eye Irrit. 2, H319 Causes serious eye irritation
Sens Skin 1; H317 May cause an allergic skin reaction
Information concerning particular hazards for human and environment:
The product has to be labeled due to calculation procedure for the "General Classification
guideline for preparations of the EU" in the latest version.
Label elements
Labeling according to Regulation (EC) 1272/2008:
Hazard pictograms
Signal word
Warning
Hazard statements
H315 Causes skin irritation
H319 Causes serious eye irritation
H317 May cause an allergic skin reaction
Precautionary statements
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove
contact lenses, if present and easy to do. Continue rinsing.
P302+P352 IF ON SKIN: Wash with plenty of soap and water
Labeling according to EU guidelines:
Medical devices as defined in Directive 93/42/EEC and which are invasive or used in direct
physical contact with the human body; are exempted from the provisions of Regulation (EC)
No. 1272/2008 (CLP/GHS) usually if they are in the finished state and intended for the final
user.
Other hazards
Results of PBT and vPvB assessment
<b>PBT:</b> not applicable
vPvB: not applicable

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B. <u>Composition/Information on Ingredients</u> Chemical characterization: Mixture			
Description of the mixture: Aqueous solution of polyacids and methacrylates			
Hazardous components:			
CAS-Nr. 868-77-9 2-Hydroxyethyl-methacrylate GHS07, H315, H319, H317			
. <u>First-aid measures</u>			
General information: Seek medical advice, if symptoms occur, which can be caused by the product.			
after skin contact: wash with plenty of water and soap			
after inhalation: supply with fresh air			
after eye contact: rinse opened eye for several minutes under running water and consult a doctor			
after swallowing: seek medical advice if problems persist.			
5. Fire fighting measures			
Extinguishing media:			
CO <sub>2</sub> , powder, water spray.			
Use extinguishing method and media suitable to surrounding fire			
Special hazards arising from the substance or mixture No further relevant information			
available			
Protective equipment Wear self-contained respiratory protective equipment			
5. Accidental release measures			
Personal precautions, protective equipment and emergency procedures: not necessary			
Environmental precautions:			
Do not allow to enter drains/surface water/ ground-water.			
Methods for cleaning up:			
Absorb with liquid binding material. Clean up affected area.			
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			
. <u>Handling and storage</u>			
Handling:			
This product should only be supplied or handled to dentists or dental technicians or upon their			
instructions.			
Precautions for safe handling: Observe normal care for working with chemicals			
Information about fire and explosion protection: No special measures required			
Storage:			
Requirements at storerooms and containers: Store only in the original containers			
Further information on storage conditions: Store at dry place, at room temperature (< 25°C,			
78°F). Store away from food stuffs. Always store with lid on			
Specific end uses: No further relevant information available			

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8. Exposure controls/personal protection		
Components with limits of values to be su		
The product contains no relevant quantities of components with limit values to be		
supervised at the workplace.		
Additional information: The lists valid dur	ring the making were used as basis	
Personal protective equipment:		
General protective and hygienic measure		
The usual precautionary measures are to be	adhered to when handling chemicals.	
Keep away from foodstuffs and beverages.		
Hand protection		
Protective gloves.		
Due to missing tests no recommendation to	the glove material can be given for the product.	
Eye protection: safety glasses		
Respiratory protection: Required, when ac	erosols are generated	
9. <u>Physical and chemical properties</u>		
Information on basic physical and chemic	cal properties	
Appearance		
Form:	liquid	
Color:	colorless	
Odor:	faint odor	
	Value Unit Method	
Safety relevant basic data		
Melting point/melting range:	n.a.	
<b>Boiling point/boiling range:</b>	approx. 100 °C	
Flash point:	>100 °C	
Ignition temperature:	Product is not selfigniting	
Danger of explosion:	None	
Density:	$1.2 \text{ g/cm}^3$	
Vapor pressure:	Not applicable (soluted substance non volatile)	
Viscosity:	liquid	
pH	ca. 2.5	
Solubility in/miscibility with:		
Water:	Very soluble	
Content of solvents:	none	
Organic solvents:	none	
10. <u>Stability and reactivity</u>		
Thermal decomposition / conditions to be avoided		
No decomposition if used according to specifications. Avoid heat, direct sunlight, reactive		
materials e.g. peroxides.		
Possibility of hazardous reactions: No dar	ngerous reaction known	
Conditions to avoid: No further relevant information available		
Incompatible materials: No further relevant information available		

Hazardous decomposition products: No dangerous decomposition products known.

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Acute toxicity:	
Primary irritation:	
skin: may cause skin irritation	
eye: irritating effect	
Sensitization: no sensitizing effects know	n
Additional toxicological information:	
Allergic reation by chronic exposure to pro	oduct are possible.
	ifications, the product does not have any harmful
effects to our experience and the informati	
12. Ecological information	I I I I I I I I I I I I I I I I I I I
Toxicity:	
Aquatic toxicity: No further relevant info	rmation available
<b>Persistence and degradability:</b> No furthe	
Behavior in environmental systems:	
<b>Bioaccumulative potential</b> No further rel	evant information available
Mobility in soil No further relevant inform	
•	uted product or large quantities of it into surface wate
or sanitary sewer system	uted product of large quantities of it into surface wate
13. <u>Disposal considerations</u>	
Product:	
Recommendation:	
	in accordance with local state and federal regulations
Uncleaned packaging:	in accordance with local, state and federal regulations
<b>Recommendation:</b> Disposal must be mad	a according to official regulations
*	
14. <u>Transport information</u>	
Land transport ADR/RID and GGVS/G	
Not classified as dangerous goods in the m	leaning of transport regulations
Sea transport IMDG	· · · · · · · · · · · · · · · · · · ·
Not classified as dangerous goods in the m	
Air transport ICAO-TI and IATA-DGR	
Not classified as dangerous goods in the m	leaning of transport regulations
15. <u>Regulatory information</u>	
Classification according to EC-guideline	
The product is a medical device according	to EC-directive 93/42 EEC.
Chemical safety assessment:	
A Chemical Safety Assessment has not be	en carried out.
16. <u>Other information:</u>	
Changes compared with the previous ve	ersion:
Adaptation according to REACH-regulation	on (EC) No. 1907/2006, Article 31
-	

requirements of the product. The data do not signify any warranty with regards to products properties. However users of the product should satisfy themselves that the information given is sufficient and correct for their specific circumstances of use. Date of issue: 16.05.2018 Printing date: 16.05.2018

1. <u>Identification of the substance/mixture and of the company/undertaking</u>			
Product Identifier			
Trade name: Harvard Ionoresin Fill Extra – Powder			
Harvard Ionoresin Fill Extra OptiCaps <sup>®</sup> – Powder			
Use of the preparation: Dental product			
Details of the supplier of the safety data sheet:			
Manufacturer/supplier:			
Harvard Dental International GmbH,			
Margaretenstraße 2-4,			
15366 Hoppegarten, Germany			
info@harvard-dental-international.de			
Emergency telephone number:			
+ 49 (0) 30 99 28 978-0 (Quality Management)			
2. <u>Hazards identification</u>			
Classification of the substance or mixture:			
Classification according to Regulation (EC) No 1272/2008: void			
Information concerning particular hazards for human and environment:			
The product does not have to be labeled due to calculation procedure for the "General			
Classification guideline for preparations of the EU" in the latest version.			
Label elements			
Labeling according to Regulation (EC) 1272/2008: void			
Labeling according to EU guidelines:			
Medical devices as defined in Directive 93/42/EEC and which are invasive or used in direct			
physical contact with the human body; are exempted from the provisions of Regulation (EC)			
No. 1272/2008 (CLP/GHS) usually if they are in the finished state and intended for the final			
user.			
Other hazards			
Results of PBT and vPvB assessment			
<b>PBT:</b> not applicable			
vPvB: not applicable			
3. <u>Composition/Information on Ingredients</u>			
Chemical characterization: Mixture			
Description of the mixture: barium-fluoro-aluminosilicate glass powder, pigments, initiators			
Hazardous components: none			
4. <u>First-aid measures</u>			
General information: no special measures required			
after skin contact: wash with plenty of water and soap			
after inhalation: supply with fresh air			
after eye contact: rinse opened eye for several minutes under running water and consult a doctor			
after swallowing: seek medical advice if problems persist			
5. <u>Fire fighting measures</u>			
Extinguishing media:			
$CO_2$ , powder, water spray.			
Use extinguishing method and media suitable to surrounding fire			
Special hazards arising from the substance or mixture No further relevant information			
available			
Protective equipment Wear self-contained respiratory protective equipment			

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6. <u>Accidental release measures</u>			
Personal precautions, protective equipment	t and emergency procedures		
Avoid formation of dust.			
Environmental precautions:			
Do not allow to enter drains/surface water/ gro	ound-water.		
Methods for cleaning up:			
Take up mechanically. Clean up affected area			
<b>Reference to other sections:</b>			
See Section 7 for information on safe handling	g 5		
See Section 8 for information on personal pro	tection equipment		
See Section 13 for disposal information			
7. <u>Handling and storage</u>			
Handling:			
This product should only be supplied or handl	ed to dentists or dental technicians or upon their		
instructions.			
Precautions for safe handling: Observe normal care for working with chemicals			
Information about fire and explosion prote	ction: No special measures required		
Storage:			
Requirements at storerooms and container	s: Store only in the original containers		
Further information on storage conditions:			
Store at dry place, at room temperature ( $< 25^{\circ}$	C, 78°F). Store away from food stuffs. Always		
store with lid on			
Specific end uses: No further relevant inform	ation available		
8. Exposure controls/personal protection			
Components with limits of values to be sup	ervised at the workplace:		
The product contains no relevant quantities of	-		
supervised at the workplace.	-		
Additional information: The lists valid during the making were used as basis			
Personal protective equipment:			
General protective and hygienic measures:			
The usual precautionary measures are to be adhered to when handling chemicals.			
Keep away from foodstuffs and beverages.			
Hand protection			
Protective gloves.			
Due to missing tests no recommendation to the glove material can be given for the product.			
Eye protection: safety glasses			
<b>Respiratory protection:</b> Required, when aerosols are generated			
9. Physical and chemical properties			
Information on basic physical and chemica	l properties		
Appearance			
Form:	Fine powder		
	white		
Odor:	odorless		
Color:	white		
	00011035		

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	Value Unit Method	
Safety relevant basic data		
Melting point/melting range:	n.a.	
Boiling point/boiling range:	n.a.	
Flash point:	n.a.	
Ignition temperature:	Product is not selfigniting	
Danger of explosion:	None	
Density:	Not determined	
Vapor pressure:	Not applicable (non volatile)	
Solubility in/miscibility with:		
Water:	slightly	
Content of solvents:	none	
Organic solvents:	none	
10. <u>Stability and reactivity</u>		
Thermal decomposition / conditions to be av	voided	
No decomposition if used according to specific		
Possibility of hazardous reactions: No dange	erous reaction known	
Conditions to avoid: No further relevant infor	rmation available	
Incompatible materials: No further relevant i	nformation available	
Hazardous decomposition products: No dan	gerous decomposition products known.	
11. Toxicological information		
Acute toxicity:		
Primary irritation:		
skin: may cause skin irritation (aerosols)		
eye: irritating effect (aerosols)		
Sensitization: no sensitizing effect known		
Additional toxicological information:		
When used and handled according to specifica	tions, the product does not have any harmful	
effects to our experience and the information p	provided to us.	
12. <u>Ecological information</u>		
Toxicity:		
Aquatic toxicity: No further relevant informat		
Persistence and degradability: No further rel	levant information available	
Behavior in environmental systems:		
Bioaccumulative potential No further relevant		
Mobility in soil No further relevant information		
General information: Do not allow undiluted product or large quantities of it into surface water		
or sanitary sewer system		
13. Disposal considerations		
Product:		
Recommendation:	1 411 1 4 101 1	
Use proper landfill disposal or incineration in a	accordance with local, state and federal	
regulations		
Uncleaned packaging:		
<b>Recommendation:</b> Disposal must be made ac	cording to official regulations	

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14. <u>Transport information</u>
Land transport ADR/RID and GGVS/GGVE (Germany)
Not classified as dangerous goods in the meaning of transport regulations
Sea transport IMDG
Not classified as dangerous goods in the meaning of transport regulations
Air transport ICAO-TI and IATA-DGR
Not classified as dangerous goods in the meaning of transport regulations
15. <u>Regulatory information</u>
Classification according to EC-guidelines:
The product is a medical device according to EC-directive 93/42 EEC.
Chemical safety assessment:
A Chemical Safety Assessment has not been carried out.
16. Other information:
Changes compared with the previous version:
Adaptation according to REACH-regulation (EC) No. 1907/2006, Article 31

The above information is based on our present day knowledge and relates solely to the safety requirements of the product. The data do not signify any warranty with regards to products properties. However users of the product should satisfy themselves that the information given is sufficient and correct for their specific circumstances of use.