ivoclar vivadent:

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Material Safety Data Sheet acc. to ISO 11014

Printing date 06/23/2015

Version number 5

Reviewed on 05/08/2015

1 Identification

- · Product identifier
- · Trade name: <u>Harmony</u> PF

• *Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.*

- · Application of the substance / the mixture Manufacture of dental prothesis
- · Details of the supplier of the safety data sheet

Manufacturer/Supplier: Ivoclar Vivadent Inc. 175 Pineview Drive, Amherst, N.Y. 14228 USA Tel. +1 800 533 6825 Fax +1 716 691 2285

Ivoclar Vivadent Inc. 1-6600 Dixie Road Mississauga, Ontario L5T 2Y2 Canada Phone: +1 905 670 8499 Fax: +1 905 670 3102

Information department: Quality Assurance / Regulatory Affairs
Emergency telephone number: 24 Hour Emergency Assistance:

Emergency-Call USA - Infotrac: 1-800-535-5053 Emergency-Call Canada - Canutec: 1-613-996-6666

General SDS Assistance: US: 1-800-533-6825 Canada: 1-800-263-8182

2 Hazard(s) identification

• Classification of the substance or mixture The product is not classified according to the Globally Harmonized System (GHS). • Label elements

- · GHS label elements Void
- · Hazard pictograms Void
- · Signal word Void
- Hazard statements Void
- Additional information:

Alloys do not require a label, providing they do not present a hazard to human health by inhalation, ingestion or contact with skin or to the aquatic environment in the form in which they are placed on the market.

• Classification system:

· NFPA ratings (scale 0 - 4)



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10-<25%

5-<10%

3-5%

· HMIS-ratings (scale 0 - 4)

HEALTH \bigcirc Health = 0FIRE \bigcirc Fire = 0REACTIVITY \bigcirc Reactivity = 0

· Other hazards

· Results of PBT and vPvB assessment

· **PBT:** Not applicable.

· vPvB: Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Description: Dental alloy

· Dangerous components:

7440-22-4 silver

7440-50-8 copper

7440-06-4 platinum

4 First-aid measures

- · Description of first aid measures
- · General information: No special measures required.
- After inhalation:

Grinding dust: Supply fresh air; consult doctor in case of complaints.

In case of unconsciousness place patient stably in side position for transportation.

- After skin contact: After contact with the molten product, cool rapidly with cold water.
- After eye contact:

Grinding dust: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

Mechanical effects only.

· After swallowing: Seek medical treatment.

• Information for doctor:

• Most important symptoms and effects, both acute and delayed No further relevant information available.

· Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 *Fire-fighting measures*

- Suitable extinguishing agents: The product is not flammable.
- · Special hazards arising from the substance or mixture No further relevant information available.

• Advice for firefighters

· Protective equipment: Do not inhale explosion gases or combustion gases.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures Not required.

· Environmental precautions: No special measures required.

• Methods and material for containment and cleaning up: Pick up mechanically.

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[·] Extinguishing media

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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

· Handling:

- *Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.*
- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see item 7.
- · Control parameters

· Control parameters					
· Components with limit values that require monitoring at the workplace:					
744	7440-22-4 silver				
	Short-term value: 0.03 mg/m³ Long-term value: 0.01 mg/m³ as Ag				
EV	Long-term value: 0.1* 0.01** mg/m³ *metal;**water-soluble compdounds (as silver)				
7440-50-8 copper					
EL	Long-term value: 1* 0.2** mg/m ³ *dusts and mists; **fume, as Cu				
	Long-term value: 0.2* 1** mg/m ³ as copper, *fume;**dust and mists				
744	0-06-4 platinum				
EL	Long-term value: 1* 0.002** mg/m ³ *metal;**soluble salts (as Pt): S				
EV	Long-term value: 1* 0.002** mg/m ³ *metal;**water-soluble compounds (as Pt)				
· Add	<i>itional information:</i> The lists that were valid during the creation were used as basis.				

· Exposure controls

· Personal protective equipment:

- General protective and hygienic measures: Usual hygienic measures for dental practice.
- Breathing equipment: Use respiratory protective device against the effects of fumes/dust/aerosol.
- *Protection of hands:* Protective gloves should always be worn during mechanical and thermal processing.

· Material of gloves

Mechanical processing: Leather gloves Strong gloves Thermal processing: Heat protection gloves

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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:

Always wear safety goggles during mechanical processing (grinding, sawing /cutting, drilling, milling).

9 Physical and chemical proper	rties				
· Information on basic physical and chemical properties					
· General Information					
· Appearance:					
Form:	Solid				
Color:	Yellow				
· Odor:	Odorless				
· Odour threshold:	Not determined.				
· pH-value:	Not applicable.				
· Change in condition					
Melting point/Melting range:	900 – 940 °C				
Boiling point/Boiling range:	Undetermined.				
· Flash point:	Not applicable.				
· Flammability (solid, gaseous):	Not determined.				
· Auto igniting:	Product is not selfigniting.				
• Danger of explosion:	Product does not present an explosion hazard.				
· Explosion limits:					
Lower:	Not determined.				
Upper:	Not determined.				
· Vapor pressure:	Not applicable.				
· Density at 20 •C:	15.6 g/cm ³				
· Relative density	Not determined.				
· Vapour density	Not applicable.				
· Evaporation rate	Not applicable.				
· Solubility in / Miscibility with					
Water:	Insoluble.				
• Partition coefficient (n-octanol/water): Not determined.					
· Viscosity:					
Dynamic:	Not applicable.				
Kinematic:	Not applicable.				
· Solvent content:					
Solids content:	100 %				
• Other information	No further relevant information available.				

10 Stability and reactivity

· Reactivity No further relevant information available.

· Chemical stability Stable under normal handling and storage conditions.

• *Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.* (Contd. on page 5)

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- · Possibility of hazardous reactions No dangerous reactions known.
- Conditions to avoid No further relevant information available.
- Incompatible materials: No further relevant information available.
 Hazardous decomposition products: None under normal conditions of storage and use.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- Primary irritant effect:
- on the skin: No irritant effect.
- \cdot on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.
- \cdot Additional toxicological information:
- Fumes or dusts generated from cutting or grinding operations may cause respiratory irritation.

· Carcinogenic categories

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes: Generally not hazardous for water
- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

· Waste treatment methods

· Recommendation:

Take to an approved landfill or a waste incineration plant, under conditions approved by the local authority.

· Uncleaned packagings:

· Recommendation: Disposal must be made according to official regulations.

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· UN-Number

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TDG, ADN, IMDG, IATA	Void
UN proper shipping name TDG, ADN, IMDG, IATA	Void
Transport hazard class(es)	
DOT	
Class	9 Miscellaneous dangerous substances and articles
Label	9
TDG, ADN, IMDG, IATA	
Class	Void
Packing group	
DOT	III
TDG, IMDG, IATA	Void
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Not applicable.
Transport in bulk according to Annex	II of
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	Product is not classified as a dangerous good for transport (ADR, IMDG, IATA).
UN ''Model Regulation'':	-

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture · Sara

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· Section 355 (extremely hazardous substances):							
None of the	None of the ingredients is listed.						
· Section 31.	3 (Specific toxic chemical listings):						
7440-22-4	silver						
7440-50-8	copper						
· TSCA (To:	• TSCA (Toxic Substances Control Act):						
7440-57-5	Gold						
7440-22-4	silver						
7440-50-8	copper						
7440-06-4	platinum						
7440-74-6	indium						
7439-88-5	iridium						
· Proposition	n 65						
· Chemicals	known to cause cancer:						
None of the	None of the ingredients is listed.						
· Chemicals	known to cause reproductive toxicity for females:						
None of the	None of the ingredients is listed.						
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· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

7440-22-4 silver

7440-50-8 copper

· TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

- · GHS label elements Void
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void

· National regulations:

- Other regulations, limitations and prohibitive regulations The product is a medical device according to the Directive 93/42/EEC. This product is classified as a medical device under US and Canadian regulations and has been reviewed by the US Food and Drug Administration and Health Canada.
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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.

· Date of preparation / last revision 06/23/2015 / 4

- Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists 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)
- NFPA: National Fire Protection Association (USA)
- HMIS: Hazardous Materials Identification System (USA)
- * Data compared to the previous version altered.