# ivoclar vivadeni:

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#### Material Safety Data Sheet acc. to ISO 11014

Printing date 06/23/2015

Version number 5

Reviewed on 05/07/2015

## **1 Identification**

- · Product identifier
- · Trade name: Capricorn

• **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

 $\cdot$  Classification of the substance or mixture

*Ox. Sol.* 2 *H272 May intensify fire; oxidizer.* 

Skin Corr. 1C H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

#### · Label elements

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms



· Signal word Danger

- Hazard-determining components of labeling: gallium
- *Hazard statements May intensify fire; oxidizer.*

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(Contd. of page 1) Causes severe skin burns and eye damage. · Precautionary statements Keep away from heat. Take any precaution to avoid mixing with combustibles. Wear protective gloves / eye protection / face protection. *Wear eye protection / face protection.* Do not breathe dusts or mists. Keep/Store away from clothing/combustible materials. Wash thoroughly after handling. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. Specific treatment (see on this label). If swallowed: Rinse mouth. Do NOT induce vomiting. Wash contaminated clothing before reuse. In case of fire: Use for extinction: CO2, powder or water spray. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. · 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) Health = 1Fire = 0*Reactivity* = 0· HMIS-ratings (scale 0 - 4) HEALTH 1 Health = 1FIRE 0 Fire = 0**REACTIVITY O** 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:

7440-05-3	palladium	60-100%
7440-74-6	indium	3-7%
7440-55-3	gallium	3-7%
7440-22-4	silver	3-5%
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#### 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*

- · Extinguishing media
- 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.
- · 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

*Extractors are required on all machines used for thermal processing or splinter removal processes. 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.

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#### 8 Exposure controls/personal protection • Additional information about design of technical systems: No further data; see item 7. · Control parameters · Components with limit values that require monitoring at the workplace: 7440-74-6 indium EL Long-term value: 0.1 mg/m<sup>3</sup> as In; ACGIH 2B EV Long-term value: 0.1 mg/m<sup>3</sup> as indium 7440-22-4 silver EL Short-term value: 0.03 mg/m<sup>3</sup> Long-term value: 0.01 mg/m<sup>3</sup> as Ag EV Long-term value: $0.1 \times 0.01 \times mg/m^3$ \*metal; \*\*water-soluble compdounds (as silver) • Additional information: 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. After use of gloves apply skin-cleaning agents and skin cosmetics. · Material of gloves Mechanical processing: Leather gloves Strong gloves Thermal processing: Heat protection gloves · 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 properties

General Information		
Appearance:	~	
Form:	Solid	
Color:	White	
Odor:	Odorless	
Odour threshold:	Not determined.	
pH-value:	Not applicable.	
Change in condition		
Melting point/Melting range:	1170–1335 °С	
Boiling point/Boiling range:	Undetermined.	

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· 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:	11 g/cm <sup>3</sup>	
· Relative density	Not determined.	
· Vapour density	Not applicable.	
· Evaporation rate	Not applicable.	
$\cdot$ Solubility in / Miscibility with		
Water:	Insoluble.	
· Partition coefficient (n-octanol/wa	ter): 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.
- · 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.
- on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.
- 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.

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· 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.
- $\cdot$  Additional ecological information:
- $\cdot$  General notes: Generally not hazardous for water
- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- $\cdot \textit{Other adverse effects} \textit{ No further relevant information available}.$

## 13 Disposal considerations

 $\cdot$  Waste treatment methods

· Recommendation:

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

- · Uncleaned packagings:
- $\cdot \textit{Recommendation: Disposal must be made according to official regulations.}$

# 14 Transport information

· UN-Number	
·DOT	NA3077
· 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.
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• Transport in bulk according to Annex II MARPOL73/78 and the IBC Code	I of 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

None of the ingredients is listed.         Section 313 (Specific toxic chemical listings):         7440-22-4         silver         7440-50-8         copper         TSCA (Toxic Substances Control Act):         7440-57-5         Gold         7440-52-4         silver         7440-57-5         Gold         7440-22-4         silver         7440-50-8         copper         7440-60-4         platinum         7440-76-6         indum         7439-88-5         iridium         Proposition 65         Chemicals known to cause cancer:         None of the ingredients is listed.         Chemicals known to cause reproductive toxicity for females:         None of the ingredients is listed.         Chemicals known to cause developmental toxicity:         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	Section 355 (extremely hazardous substances):	
7440-22-4       silver         7440-50-8       copper <b>TSCA (Toxic Substances Control Act):</b> 7440-57-5       Gold         7440-57-5       Gold         7440-22-4       silver         7440-64       platinum         7440-74-6       indium         7440-74-7       indium         7440-74-6       indium         7439-88-5       iridium <b>Proposition 65</b> C <b>Chemicals known to cause cancer:</b> None of the ingredients is listed. <b>Chemicals known to cause reproductive toxicity for females:</b> None of the ingredients is listed. <b>Chemicals known to cause reproductive toxicity for males:</b> None of the ingredients is listed. <b>Chemicals known to cause developmental toxicity:</b> None of the ingredients is listed. <b>Chemicals known to cause developmental toxicity:</b> None of the ingredients is listed. <b>Chemicals known to cause developmental toxicity:</b> None of the ingredients is listed. <b>Chemicals known to cause developmental toxicity:</b> None of the ingredients is listed. <b>Chemicals known to cause developmental toxicity:</b> None of the ingredients is listed. <b>Chemicals known to cause developmental toxicity:</b> None of the ingredients is listed. <t< th=""><th>None of the ingredients is listed.</th><th></th></t<>	None of the ingredients is listed.	
7440-50-8       copper         TSCA (Toxic Substances Control Act):         7440-57-5       Gold         7440-57-5       Gold         7440-22-4       silver         7440-50-8       copper         7440-64-4       platinum         7440-74-6       indium         7439-88-5       iridium <b>Proposition 5</b> Chemicals known to cause cancer:         None of the ingredients is listed.         Chemicals known to cause cancer:         None of the ingredients is listed.         Chemicals known to cause reproductive toxicity for females:         None of the ingredients is listed.         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.         NOSH-Ca (National Institute for Occupational Safety and	Section 313 (Specific toxic chemical listings):	
TSCA (Toxis Substances Control Act): TSCA (Toxis 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 65 Chemicals known to cause cancer: None of the ingredients is listed. Chemicals known to cause reproductive toxicity for females: None of the ingredients is listed. 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. Chemicals known to cause developmental toxicity: 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. NOSH-Ca (National Institute for Occupational Safety and Health) None of the ingredients is listed.	7440-22-4 silver	
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7440-22-4       silver         7440-50-8       copper         7440-06-4       platinum         7440-74-6       indium         7439-88-5       iridium         7439-88-5       iridium         7439-88-5       iridium         Proposition 65         Chemicals known to cause cancer:         None of the ingredients is listed.       Chemicals insteed.         Chemicals known to cause reproductive toxicity for females:         None of the ingredients is listed.       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.       NOSH-Ca (National Institute for Occupational Safety and Health)         None of the ingredients is listed.       NOSH-Ca (National Institute for Occupational Safety and Health)	TSCA (Toxic Substances Control Act):	
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7439-88-5       iridium         Proposition 65         Chemicals known to cause cancer:         None of the ingredients is listed.       Chemicals known to cause reproductive toxicity for females:         None of the ingredients is listed.       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.       Chemicals known to cause developmental toxicity:         None of the ingredients is listed.       Carcinogenic categories         EPA (Environmental Protection Agency)       7440-22-4         silver       silver         7440-50-8       copper         TLV (Threshold Limit Value established by ACGIH)       None of the ingredients is listed.         NORE of the ingredients is listed.       Image: Silve	7440-06-4 platinum	
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• •		
	GHS label elements	

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(Contd. of page 7) · Hazard pictograms GHS03 GHS05 · Signal word Danger · Hazard-determining components of labeling: gallium · Hazard statements May intensify fire; oxidizer. Causes severe skin burns and eye damage. · Precautionary statements Keep away from heat. Take any precaution to avoid mixing with combustibles. *Wear protective gloves / eye protection / face protection.* Wear eye protection / face protection. Do not breathe dusts or mists. Keep/Store away from clothing/combustible materials. Wash thoroughly after handling. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. Specific treatment (see on this label). If swallowed: Rinse mouth. Do NOT induce vomiting. Wash contaminated clothing before reuse. In case of fire: Use for extinction: CO2, powder or water spray. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. · 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) Ox. Sol. 2: Oxidising Solids, Hazard Category 1C

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*Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1* · \* *Data compared to the previous version altered.* 

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