# ivoclar vivadeni:

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## Material Safety Data Sheet acc. to ISO 11014

Printing date 06/23/2015

Version number 4

Reviewed on 05/07/2015

## **1 Identification**

- · Product identifier
- Trade name: Callisto Implant 60

• *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
Ox. Sol. 2 H272 May intensify fire; oxidizer.
Skin Irrit. 2 H315 Causes skin irritation.

Skin Irru. 2 H515 Causes skin irruation.

Eye Irrit. 2A H319 Causes serious eye irritation.

#### · Label elements

· GHS label elements

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

· Hazard pictograms



Signal word Danger
 Hazard statements
 May intensify fire; oxidizer.
 Causes skin irritation.
 Causes serious eye irritation.

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· Precautionary statements Keep away from heat. Take any precaution to avoid mixing with combustibles. *Wear protective gloves / eye protection / face protection.* Wear protective gloves. *Wear eye protection / face protection.* Keep/Store away from clothing/combustible materials. Wash thoroughly after handling. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Specific treatment (see on this label). If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. In case of fire: Use for extinction: CO2, powder or water spray. If on skin: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. 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 30-60% 7440-22-4 silver 25-30% 7440-31-5 tin 5-<10% 7440-74-6 indium 1-<3% 7440-55-3 gallium *≤1%* 

## 4 First-aid measures

· Description of first aid measures

· General information: No special measures required.

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• 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.
- 8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see item 7.

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· pH-value:

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/m³ nds (as silver)
nds (as silver)
org. compds.: Skin
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Not applicable.

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· Change in condition		
Melting point/Melting range:	1100–1260 °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:	10.8 g/cm <sup>3</sup>	
· Relative density	Not determined.	
· Vapour density	Not applicable.	
· Evaporation rate	Not applicable.	
· Solubility in / Miscibility with		
Water:	Insoluble.	
· Partition coefficient (n-octanol/wat	t <b>er):</b> 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.
- $\cdot \textit{Additional toxicological information:}$

Fumes or dusts generated from cutting or grinding operations may cause respiratory irritation.

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#### · 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.

#### **14 Transport information**

NA3077 Void
Void
Void
9 Miscellaneous dangerous substances and articles
9
Void
III
Void
No
-

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$\cdot$ Special precautions for user	Not applicable.
• Transport in bulk according to Annex . MARPOL73/78 and the IBC Code	II 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**

Section 355	(extremely hazardous substances):	
None of the	ingredients is listed.	
Section 313	(Specific toxic chemical listings):	
7440-22-4 s	silver	
7440-50-8 c	copper	
TSCA (Toxi	ic Substances Control Act):	
7440-57-5 (	Gold	
7440-22-4 s	silver	
7440-50-8 c	copper	
7440-06-4 p		
7440-74-6 i		
7439-88-5 i	ridium	
<b>Proposition</b>		
	known to cause cancer:	
•	ingredients is listed.	
	nown to cause reproductive toxicity for females:	
None of the	ingredients is listed.	
	nown to cause reproductive toxicity for males:	
None of the	ingredients is listed.	
Chemicals k	xnown to cause developmental toxicity:	
None of the	ingredients is listed.	
Carcinogeni	ic categories	
EPA (Envir	onmental Protection Agency)	
7440-22-4 s	silver	
7440-50-8 c	copper	
TLV (Thres	hold Limit Value established by ACGIH)	
None of the	ingredients is listed.	
NIOSH-Ca	(National Institute for Occupational Safety and Health)	
	ingredients is listed.	

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(Contd. of page 7) · Hazard pictograms GHS03 GHS07 · Signal word Danger · Hazard statements May intensify fire; oxidizer. Causes skin irritation. Causes serious eye irritation. · Precautionary statements Keep away from heat. Take any precaution to avoid mixing with combustibles. *Wear protective gloves / eye protection / face protection.* Wear protective gloves. *Wear eye protection / face protection.* Keep/Store away from clothing/combustible materials. Wash thoroughly after handling. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Specific treatment (see on this label). If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. In case of fire: Use for extinction: CO2, powder or water spray. If on skin: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. 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.

The product is a medical device according to the Directive 95/42/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 / 3 • 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 2

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

*Eye Irrit.* 2*A*: *Serious eye damage/eye irritation, Hazard Category* 2*A* **· \*** *Data compared to the previous version altered.*