# 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 15

• *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

Skin Irrit. 2 H315 Causes skin irritation.

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 Warning

- Hazard statements Causes skin irritation. Causes serious eye irritation.
- **Precautionary statements** Wear protective gloves. Wear eye protection / face protection.

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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.

If on skin: Wash with plenty of water.

Take off contaminated clothing and wash it before reuse.

• 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)



#### · HMIS-ratings (scale 0 - 4)

HEALTH1
$$Health = 1$$
FIRE $0$  $Fire = 0$ REACTIVITY $0$  $Reactivity = 0$ 

- Other hazards
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.

### **3** Composition/information on ingredients

· Chemical characterization: Mixtures

•	Desci	ipnon:	Dental	alloy	

· Dangerous com	
7440-05-3 palla	adium 30-60%
7440-22-4 silve	r 10-<25%
7440-74-6 indiu	
7440-55-3 galli	um 1-<3%

### 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.

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· 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.

- · Components with limit values that require monitoring at the workplace:
- 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\* 0.01\*\* mg/m<sup>3</sup> \*metal; \*\*water-soluble compdounds (as silver)

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<sup>·</sup> Control parameters

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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

· 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).

Information on basic physical and General Information	chemical properties	
Appearance:		
Form:	Solid	
Color:	White	
Odor:	Odorless	
Odour threshold:	Not determined.	
pH-value:	Not applicable.	
Change in condition Melting point/Melting range:	1230–1310 °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:	11.5 g/cm <sup>3</sup>	
Relative density	Not determined.	

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· Vapour density	Not applicable.	
· Evaporation rate	Not applicable.	
· Solubility in / Miscibility with		
Water:	Insoluble.	
· Partition coefficient (n-octan	ol/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.
- · 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.

· 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.
- $\cdot$  *Mobility in soil* No further relevant information available.
- · Additional ecological information:
- · General notes: Generally not hazardous for water

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### · 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:

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

UN-Number	
DOT	NA3077
TDG, ADN, IMDG, IATA	Void
UN proper shipping name	
TDĜ, ÂDN, IMDĞ, 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).

### **15 Regulatory information**

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

· Sara

### · Section 355 (extremely hazardous substances):

None of the ingredients is listed.

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440-22-4       silver         440-52-8       copper         SCA (Toxic Substances Control Act):       440-57-5         440-57-5       Cold         440-22-4       silver         440-52-4       silver         440-50-8       copper         440-57-5       indium         440-57-6       indium         440-57-7       indium         440-74-6       indium         440-74-6       indium         440-74-6       indium         439-88-5       iridium         ridium       ridium         rome of the ingredients is listed.       Intericals known to cause cancer:         forme of the ingredients is listed.       Intericals known to cause reproductive toxicity for females:         fore of the ingredients is listed.       Intericals known to cause reproductive toxicity:         fore of the ingredients is listed.       Intericals known to cause reproductive toxicity:         fore of the ingredients is listed.       Intericals cause         440-50-8       copper       Interical State developmental toxicity:         fore of the ingredients is listed.       Interical State developmental toxicity:         fore of the ingredients is listed.       Interical State developmental Stateset andecause and protection Agency)		(Contd. of page
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LV (Threshold Limit Value established by ACGIH)         Ione of the ingredients is listed.         TOSH-Ca (National Institute for Occupational Safety and Health)         Ione of the ingredients is listed.         HS label elements         he product is classified and labeled according to the Globally Harmonized System (GHS).         Iazard pictograms         Image: Comparison of the ingredients         GHS07         ignal word Warning         Iazard statements         iauses skin irritation.         iauses serious eye irritation.         recautionary statements         Vear protective gloves.         Vear protective gloves.         Vear eye protection / face protection.         Vash thoroughly after handling.         in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.         iontinue rinsing.         pecific treatment (see on this label).	7440-22-4 silver	L
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<b>IOSH-Ca</b> (National Institute for Occupational Safety and Health)         Vone of the ingredients is listed. <b>IHS label elements</b> the product is classified and labeled according to the Globally Harmonized System (GHS). <b>Iazard pictograms Openants GHS07 Ignal word</b> Warning <b>Iazard statements iauses skin</b> irritation. <b>Frecautionary statements Vear eye protection</b> / face protection.         Vear eye protection / face protection.         Vash thoroughly after handling. <b>Fin eyes:</b> Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. <b>Continue rinsing</b> . <b>pecific treatment</b> (see on this label).	TLV (Threshold Limit Value established by ACGIH)	
Tone of the ingredients is listed. <b>HS label elements</b> the product is classified and labeled according to the Globally Harmonized System (GHS). <b>Jazard pictograms</b>	None of the ingredients is listed.	
Tone of the ingredients is listed. <b>HS label elements</b> the product is classified and labeled according to the Globally Harmonized System (GHS). <b>Jazard pictograms</b>	NIOSH-Ca (National Institute for Occupational Safety	and Health)
the product is classified and labeled according to the Globally Harmonized System (GHS). <b>Tazard pictograms</b>	None of the ingredients is listed.	
ignal word Warning Tazard statements Fauses skin irritation. Fauses serious eye irritation. Facautionary statements Vear protective gloves. Vear eye protection / face protection. Vash thoroughly after handling. Fin eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Fontinue rinsing. pecific treatment (see on this label).	GHS label elements The product is classified and labeled according to the G Hazard pictograms	lobally Harmonized System (GHS).
Tazard statements Yauses skin irritation. Yauses serious eye irritation. Trecautionary statements Year protective gloves. Year eye protection / face protection. Yash thoroughly after handling. F in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Yontinue rinsing. pecific treatment (see on this label).	GHS07	
Vash thoroughly after handling. Fin eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. pecific treatment (see on this label).	Signal word Warning Hazard statements Causes skin irritation. Causes serious eye irritation. Precautionary statements Wear protective gloves. Wear eve protection / face protection.	
<sup>c</sup> skin irritation occurs: Get medical advice/attention.	Wash thoroughly after handling. If in eyes: Rinse cautiously with water for several minute Continue rinsing. Specific treatment (see on this label).	es. Remove contact lenses, if present and easy to do.
(Contd. on page	If skin irritation occurs: Get medical advice/attention.	(Contd on more

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If eye irritation persists: Get medical advice/attention. If on skin: Wash with plenty of water. Take off contaminated clothing and wash it before reuse.

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