# ivoclar vivadent:

\*

## Safety Data Sheet acc. to OSHA HCS

*Printing date 06/23/2015* 

## Version number 8

Reviewed on 05/06/2015

## **1 Identification**

- · Product identifier
- · Trade name: Aries

• *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.

Eve Irrit. 2A H319 Causes serious eve 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.

(Contd. on page 2)

US

Printing date 06/23/2015

Version number 8

Reviewed on 05/06/2015

Trade name: Aries

(Contd. of page 1) · 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 50-100% 7440-22-4 silver 25-50% 7440-31-5 tin 2.5-<10%

### **4** First-aid measures

7440-55-3 gallium

7440-74-6 indium

· Description of first aid measures

· General information: No special measures required.

(Contd. on page 3)

1-<2.5%

1-<2.5%

US

Printing date 06/23/2015

Version number 8

Reviewed on 05/06/2015

## Trade name: Aries

(Contd. of page 2) (

• 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.

(Contd. on page 4)

US

Printing date 06/23/2015

Version number 8

Reviewed on 05/06/2015

Trade name: Aries

· pH-value:

	(Contd. of page			
· Con	trol parameters			
	ponents with limit values that require monitoring at the workplace:			
744(	0-22-4 silver			
PEL	Long-term value: 0.01 mg/m <sup>3</sup>			
REL	Long-term value: 0.01 mg/m <sup>3</sup>			
TLV	Long-term value: 0.1 mg/m <sup>3</sup> metal: dust and fume			
7440-31-5 tin				
PEL	Long-term value: 2 mg/m <sup>3</sup> metal			
REL	Long-term value: 2 mg/m <sup>3</sup>			
TLV	Long-term value: 2 mg/m <sup>3</sup> metal			
744(	)-74-6 indium			
REL	Long-term value: 0.1 mg/m <sup>3</sup> as In			
TLV	Long-term value: 0.1 mg/m <sup>3</sup> as In			
·Add	tional information: The lists that were valid during the creation were used as basis.			
· Gen · Brea · Prot	onal protective equipment: eral protective and hygienic measures: Usual hygienic measures for dental practice. ething equipment: Use respiratory protective device against the effects of fumes/dust/aerosol. ection of hands:			
<ul> <li>Gena</li> <li>Brea</li> <li>Prot</li> <li>Prot</li> <li>After</li> <li>Mata</li> <li>Meca</li> <li>Leat</li> <li>Stron</li> <li>Ther</li> <li>Heat</li> <li>Pena</li> <li>The</li> <li>obse</li> <li>Eye</li> </ul>	eral protective and hygienic measures: Usual hygienic measures for dental practice. thing equipment: Use respiratory protective device against the effects of fumes/dust/aerosol. ection of hands: ective gloves should always be worn during mechanical and thermal processing. r use of gloves apply skin-cleaning agents and skin cosmetics. erial of gloves hanical processing: her gloves mal processing: t protection gloves etration time of glove material exact break through time has to be found out by the manufacturer of the protective gloves and has to be rved. protection:			
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Not applicable.

Printing date 06/23/2015

Version number 8

Reviewed on 05/06/2015

Trade name: Aries

		(Contd. of page 4
• Change in condition Melting point/Melting range: Boiling point/Boiling range:	1165–1290 °C (2129–2354 °F) 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 (68 •F):	10.8 g/cm <sup>3</sup> (90.126 lbs/gal)	
· Relative density	Not determined.	
· Vapour density	Not applicable.	
· Evaporation rate	Not applicable.	
· Solubility in / Miscibility with		
Water:	Insoluble.	
· Partition coefficient (n-octanol/wat	er): 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.
- $\cdot$  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.
- $\cdot \textit{Additional toxicological information:}$

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

(Contd. on page 6)

Printing date 06/23/2015

Version number 8

Reviewed on 05/06/2015

Trade name: Aries

(Contd. of page 5)

#### · 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**

· UN-Number · DOT	NA3077
· ADR, ADN, IMDG, IATA	Void
· UN proper shipping name · ADR, ADN, IMDG, IATA	Void
· Transport hazard class(es)	
·DOT	
· Class	9 Miscellaneous dangerous substances and articles
· Label	9
· ADR, ADN, IMDG, IATA	
· Class	Void
· Packing group	
· DOT	III
· ADR, IMDG, IATA	Void
	(Contd. on page

Printing date 06/23/2015

Version number 8

Reviewed on 05/06/2015

Trade name: Aries

	(Contd. of page
· Environmental hazards: · Marine pollutant:	No
· 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

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

· Sara				
· Section 355 (extremely hazardous substances):				
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				
7440-22-4 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.				
· Carcinogenic categories				
· EPA (Environmental Protection Agency)				
7440-22-4 silver	D			
7440-50-8 copper	D			
· 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.				
	(Contd. on page 8)			

Reviewed on 05/06/2015

## Printing date 06/23/2015

#### Version number 8

Trade name: Aries



## **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 / 7

Abbreviations and acronyms:
 ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 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

(Contd. on page 9)

U

Printing date 06/23/2015

Version number 8

Reviewed on 05/06/2015

Trade name: Aries

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

(Contd. of page 8)

US