

EU Safety Data Sheet

Aries



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Replaces version of	05.06.2008	licasa/ v4		
Date of printing	07.06.2011	Sheet No. 1429	Version 5	Page 1 of 5
	Edited		Deleted	

Company Ivoclar Vivadent AG, Bendererstrasse 2, FL - 9494 Schaan
Fürstentum Liechtenstein

1 Commercial product name and supplier

- 1.1 Commercial product name / Designation **Aries**
- 1.2 Application / Use Ceramic alloy
- 1.3 Producer Ivoclar Vivadent, Inc.
175 Pineview Drive, Amherst NY 14228, USA
- Supplier
- 1.4 TOX emergency number
- Official USA: Infotrac 1-800-535-5053
Canada: Canutec 1-613-996-6666
Emergency-Call LI: +423 / 235 35 35 or 373 40 40

2 Hazards identification

Avoid breathing of grinding dust and vapours. Melted material may cause burns.

3 Composition

- 3.1 Chemical characterization Dental alloy made of :
Pd 63.7 % (7440-05-3), Ag 26.0 % (7440-22-4), Sn 7.0 % (7440-02-0), Ga 1.8 % (7440-55-3), In 1.5 % (7440-74-6), < 1.0 % Ru, Re
- 3.2 Hazardous components
- 3.3 Further information None.

4 First aid measures

- 4.1 Eye contact Flush eyes with plenty of water. Call a physician if irritation persists.
- 4.2 Skin contact Melted material presents a special hazard of deep thermal burns. If burn occurs, treat as any thermal burn.
- 4.3 Ingestion Call a physician immediately.
- 4.4 Inhalation Remove to fresh air.
- 4.5 Further information None.

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Date of issue / Reference

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Replaces version of

05.06.2008

licasa/ v4

Date of printing

07.06.2011

Sheet No. 1429

Version 5

Page 2 of 5

Edited

Deleted

5 Fire-fighting measures

- | | | |
|-----|------------------------------|-----------------------------------|
| 5.1 | Suitable extinguishing media | Not required.
Not combustible. |
| 5.2 | Extinguishing media to avoid | Do not use direct water stream. |
| 5.3 | Further information | None. |

6 Accidental release measures

Clean up mechanically.
Clean and reuse.

7 Handling and storage

- | | | |
|-----|--------------------------------|---|
| 7.1 | Handling | Only adequately trained personnel should handle this product. |
| 7.2 | Industrial hygiene | Usual hygienic measures for dental practice. |
| 7.3 | Storage | No specific requirements. |
| 7.4 | Place of storage | No specific requirements. |
| 7.5 | Fire- and explosion-protection | No specific requirements. |

8 Exposure controls / Personal protection

- | | | |
|-------|---------------------------------|---|
| 8.1 | Exposure controls | Provide adequate local ventilation. Control airborne concentration below the exposure guideline. |
| 8.2 | Exposure limit values | Dust and vapors: MAK 0.1 mg/m ³ |
| 8.3 | Occupational exposure controls | |
| 8.3.1 | Respiratory protection | If metal fumes are present, use an approved high-efficiency particulate respirator (P3).
In dusty atmospheres, use an approved dust respirator P2. |
| 8.3.2 | Hand protection | Gloves. |
| 8.3.3 | Eye protection | Safety goggles. |
| 8.3.4 | Other | Use only with adequate ventilation. |
| 8.4 | Environmental exposure controls | Not applicable. |

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Date of printing

07.06.2011

Sheet No. 1429

Version 5

Page 3 of 5

Edited

Deleted

9 Physical and chemical properties

9.1 Appearance

solid

9.2 Colour

white

9.3 Odour

odourless

9.4 Change of physical state

Test method:

Melting range

1165-1290 °C 2130-2355 °F

Casting temperature

1345-1405 °C 2455-2560 °F

9.5 Density

10.8 g/cm³ (20°C)

9.6 Vapour pressure

not applicable

9.7 Viscosity

not applicable

9.8 Solubility

Solubility in water

non soluble

9.9 pH

Not applicable.

9.10 Flash point

not applicable

9.11 Ignition temperature

Not applicable.

9.12 Explosion limits

Lower:

Upper:

not applicable

9.13 Further information

Part. coeff. n-octanol/water

Evaporat. rate

Complies with ISO 9693

10 Stability and reactivity

10.1 Thermal decomposition

None, if used in accordance with instructions.

10.2 Hazardous decomposition products

None, if used in accordance with instructions.

10.3 Conditions / materials to avoid

None, if used in accordance with instructions.

10.4 Further information

None.

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Date of issue / Reference

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Date of printing

07.06.2011

Sheet No. 1429

Version 5

Page 4 of 5

Edited

Deleted

11 Toxicological information

- 11.1 Acute toxicity Alloy: non-cytotoxic, non-mutagenic, non-irritant, non-sensitizer.
- 11.2 Subacute / Chronic toxicity Fumes or dusts generated from cutting or grinding operations may cause respiratory irritation.
- 11.3 Further information None.

12 Ecological information

- 12.1 Ecotoxicity No relevant information is available.
No risk expected.
- 12.2 Mobility No risk expected.
- 12.3 Persistence and degradability No risk expected.
- 12.4 Bioaccumulative potential No risk expected.
- 12.5 Further information No ecological problems to be anticipated if properly handled and used.
nearly insoluble

13 Disposal considerations

Recycling

- 13.1 EU waste key 17 04 07

14 Transport information

- 14.1 Transport at land
- | | | | |
|----------------------|-----|---------------|-----|
| ADR | --- | RID | --- |
| UN Number | --- | Kemler Number | --- |
| Packing Group | --- | | |
| Proper shipping name | --- | | |
- 14.2 Transport at sea
- | | | | |
|----------------------|-----|------|-----|
| ADNR | --- | IMDG | --- |
| UN Number | --- | | |
| EMS | --- | MFAG | --- |
| Packing Group | --- | | |
| Proper shipping name | --- | | |
| Marine pollutant | | | |

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	Edited		Deleted	

14.3	Air transport	ICAO / IATA-DGR	---
		UN Number	---
		Proper shipping name	---
		Subsidiary Risk	---
		Labels	---
		Packing Group	---
	Passenger airplane	Packing Instructions	---
		max.	---
	Cargo Airplane	Packing Instructions	---
		max.	---
14.4	Further information	Product is not classified as a dangerous good for transport.	

15 Regulatory information

This product does not require classification as Dangerous Goods. The product is a medical device according to the EC-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.

15.1	UN number	---
15.2	National regulations	
15.3	EINECS/ELINCS number	---
15.4	Hazard symbols	
15.5	Hazard designation	
15.6	Risk phrases	
15.7	Safety phrases	
15.8	AGW value	0.1 mg/m ³
15.9	BVD classification (CH)	---
15.10	VbF (D)	---
15.11	Further information	None.

16 Other information No other information.

The above mentioned data correspond to our present state of knowledge and experience. The safety data sheet serves as description of the products in regard to necessary safety measures. The indications do not have the meaning of guarantees on properties.