

# EU Safety Data Sheet

IPS Empress CAD



Date of issue / Reference 04.04.2007 lise / Version 2  
Replaces version of 07.08.2006 casa  
Date of printing 04.04.2007 **Sheet No. 1662**

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

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## 1 Commercial product name and supplier

1.1 Commercial product name / Designation **IPS Empress CAD**

1.2 Application / Use Ceramic

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

1.4 Supplier

1.5 TOX emergency number Emergency-Call: +423 / 235 35 35 or 373 40 40  
Ivoclar Vivadent AG, FL-9494 Schaan, Liechtenstein

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## 2 Composition

2.1 Chemical characterization Ceramic ingots made of:  
> 98 % SiO<sub>2</sub>, BaO, Al<sub>2</sub>O<sub>3</sub>, CaO, CeO<sub>2</sub>, Na<sub>2</sub>O, K<sub>2</sub>O, B<sub>2</sub>O<sub>3</sub>  
< 2 % TiO<sub>2</sub> and pigments

2.2 Hazardous components None.

2.3 Further information None.

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3 **Hazards identification** Grinding dust (see 8.3.1).

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4 **First aid measures** In case of contact with grinding dust

4.1 Eye contact Flush eyes with plenty of water; mechanical effects only.

4.2 Skin contact No specific requirements.

4.3 Ingestion No specific requirements.

4.4 Inhalation Take into fresh air.

4.5 Further information None.

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## 5 Fire-fighting measures

5.1 Suitable extinguishing media No specific requirements.  
not combustible

5.2 Extinguishing media to avoid None.

5.3 Further information None.

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## 6 Accidental release measures

Clean up mechanically.

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## 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 None.
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## 8 Exposure controls / Personal protection

- 8.1 Technical measures Provide adequate local ventilation.
- 8.2 Control of threshold limits Producer Industry recommends an exposure limit of 10 mg/m<sup>3</sup>.
- 8.3 Personal protective equipment
- 8.3.1 Respiratory protection Respiratory Protection. Avoid inhalation of dust while grinding. In dusty atmospheres, use an approved dust respirator.
- 8.3.2 Hand protection Not required.
- 8.3.3 Eye protection Safety goggles.
- 8.3.4 Other None.
- 

## 9 Physical and chemical properties

- 9.1 Appearance Ingot
- 9.2 Colour off-white
- 9.3 Odour odourless
- 9.4 Change of physical state Test method:
- 9.5 Density not known
- 9.6 Vapour pressure not applicable
- 9.7 Viscosity not applicable

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## 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

None.

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## 10 Stability and reactivity

### 10.1 Thermal decomposition

None.

### 10.2 Hazardous decomposition products

None.

### 10.3 Hazardous reactions

None.

### 10.4 Further information

None.

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## 11 Toxicological information

### 11.1 Acute toxicity

This product is not hazardous according to EEC criteria.

### 11.2 Subacute / Chronic toxicity

No adverse effects anticipated by this route of exposure incidental to proper industrial handling.

### 11.3 Further information

None.

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## 12 Ecological information

No ecological problems to be anticipated if properly handled and used.  
non soluble

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## 13 Disposal considerations

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

### 13.1 EU waste key

08 02 99

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## 14 Transport information

### 14.1 Transport at land

ADR

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RID

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	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	---		
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.		

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## 15 Regulatory information

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.  
This product does not require classification as Dangerous Goods.

15.1	UN number	---
15.2	National regulations	
15.3	EU number	
15.4	Hazard symbols	
15.5	Hazard designation	
15.6	Risk phrases	
15.7	Safety phrases	
15.8	MAK value	
15.9	BVD classification (CH)	
15.10	VbF (D)	
15.11	Further information	None.

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## 16 Other information

Version: 2  
Changes: 1/6/7/8

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*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.*

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This safety data sheet has been generated with the safety database 'ChemManager',  
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