

EU Safety Data Sheet

IPS e.max Ceram



Date of issue / Reference	07.01.2010	liprt		
Replaces version of	28.09.2007	lise / v2		
Date of printing	20.01.2011	Sheet No. 1608	Version 3	Page 1 of 5
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Company Ivoclar Vivadent AG, Bendererstrasse 2, FL - 9494 Schaan
Fürstentum Liechtenstein

1 Commercial product name and supplier

1.1 Commercial product name /
Designation

IPS e.max Ceram

**Veneering materials: Dentin, Deep Dentin,
Occlusal Dentin, Incisal, Inter Incisal, Margin,
Incisal Edge, Transpa Incisal, Special Incisal,
Transpa, Cervical Transpa,
Opal Effect, Gingiva, Mamelon, Bleach**

Add on materials: Dentin, Incisal, Margin

ZirLiner

1.2 Application / Use

Ceramic

1.3 Producer

Ivoclar Vivadent AG, Bendererstrasse 2, FL - 9494 Schaan
Fürstentum Liechtenstein
msds@ivoclarvivadent.com

Supplier

1.4 TOX emergency number

Official

Emergency-Call: +423 / 235 33 13
Ivoclar Vivadent AG, FL-9494 Schaan, Liechtenstein

2 Hazards identification

Dust generation. Avoid breathing dust. Grinding dust (see 8.3.1).

3 Composition

3.1 Chemical characterization

Ceramic powder made of
> 50% SiO₂, CaO, Al₂O₃, CeO₂, Na₂O, K₂O, B₂O₃, ZnO, F, Li₂O,
ZrO₂, P₂O₅, SrO, TiO₂ and pigments

3.2 Hazardous components

None.

3.3 Further information

None.

4 First aid measures

4.1 Eye contact

Flush eyes with plenty of water; mechanical effects only.

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-
- | | | |
|-----|---------------------|---------------------------|
| 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. |

5 Fire-fighting measures

- | | | |
|-----|------------------------------|--|
| 5.1 | Suitable extinguishing media | not combustible
No specific requirements. |
| 5.2 | Extinguishing media to avoid | None. |
| 5.3 | Further information | None. |

6 Accidental release measures

Clean up mechanically.
Dispose of according to local and national regulations.

7 Handling and storage

- | | | |
|-----|--------------------------------|---|
| 7.1 | Handling | Only adequately trained personnel should handle this product.
Keep out of reach of children. |
| 7.2 | Industrial hygiene | Usual hygienic measures for dental practice.
When using, do not eat, drink or smoke. |
| 7.3 | Storage | Store in a dry place. |
| 7.4 | Place of storage | |
| 7.5 | Fire- and explosion-protection | Not required. |

8 Exposure controls / Personal protection

- | | | |
|-------|--------------------------------|--|
| 8.1 | Exposure controls | Provide adequate local ventilation. |
| 8.2 | Exposure limit values | Grinding dust: Producer Industry recommends an exposure limit of 1.5 mg/m ³ . |
| 8.3 | Occupational exposure controls | |
| 8.3.1 | Respiratory protection | In dusty atmospheres, use an approved dust respirator.
Avoid dust build-up. |
| 8.3.2 | Hand protection | Not required. |
| 8.3.3 | Eye protection | Safety goggles. |

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8.3.4 Other None.

8.4 Environmental exposure controls

9 Physical and chemical properties

9.1 Appearance	powder	
9.2 Colour	various	
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	
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	None.	

10 Stability and reactivity

10.1 Thermal decomposition	None.
10.2 Hazardous decomposition products	None.
10.3 Conditions / materials to avoid	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.

12 Ecological information

- 12.1 Ecotoxicity No data available.
- 12.2 Mobility No data available.
- 12.3 Persistence and degradability No data available.
- 12.4 Bioaccumulative potential No data available.
- 12.5 Further information No ecological problems to be anticipated if properly handled and used.
non soluble

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

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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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

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 EINECS/ELINCS number

15.4 Hazard symbols

15.5 Hazard designation

15.6 Risk phrases

15.7 Safety phrases

15.8 AGW value

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.