

# EU Safety Data Sheet

IPS e.max CAD



|                           |            |                       |           |             |
|---------------------------|------------|-----------------------|-----------|-------------|
| Date of issue / Reference | 05.07.2010 | liprt                 |           |             |
| Replaces version of       | 28.09.2007 | lise / v2             |           |             |
| Date of printing          | 03.08.2010 | <b>Sheet No. 1605</b> | Version 3 | Page 1 of 5 |
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Company Ivoclar Vivadent AG, Bendererstrasse 2, FL - 9494 Schaan  
Fürstentum Liechtenstein

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## 1 Commercial product name and supplier

1.1 Commercial product name / Designation **IPS e.max CAD**

1.2 Application / Use Ceramic - CAD/CAM Technology

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

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## 2 Hazards identification

Grinding dust (see 8.3.1).

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## 3 Composition

3.1 Chemical characterization Ceramic blocks made of:  
> 57 % SiO<sub>2</sub>, Li<sub>2</sub>O, K<sub>2</sub>O, P<sub>2</sub>O<sub>5</sub>, ZrO<sub>2</sub>, ZnO, Al<sub>2</sub>O<sub>3</sub>, MgO and pigments

3.2 Hazardous components None.

3.3 Further information None.

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## 4 First aid measures

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

4.2 Skin contact No specific requirements.

4.3 Ingestion No hazard anticipated from ingestion.

4.4 Inhalation Grinding dust:  
Take into fresh air.

4.5 Further information None.

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Sheet No. 1605

Version 3

Page 2 of 5

Edited

Deleted

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## 5 Fire-fighting measures

- |     |                              |   |
|-----|------------------------------|---|
| 5.1 | Suitable extinguishing media | No specific requirements.<br>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.  
Dispose of according to local and national regulations.

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## 7 Handling and storage

- |     |                                |   |
|-----|--------------------------------|---|
| 7.1 | Handling                       | Only adequately trained personnel should handle this product.<br>Keep out of reach of children. |
| 7.2 | Industrial hygiene             | Usual hygienic measures for dental practice.<br>When using, do not eat, drink or smoke.         |
| 7.3 | Storage                        | Store in a dry place.   |
| 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   | Exposure controls               | Provide adequate local ventilation.  |
| 8.2   | Exposure limit values           | Grinding dust: Producer Industry recommends an exposure limit of 1.5 mg/m <sup>3</sup> .                                   |
| 8.3   | Occupational exposure controls  |  |
| 8.3.1 | Respiratory protection          | Respiratory Protection. Avoid inhalation of dust while grinding.<br>In dusty atmospheres, use an approved dust respirator. |
| 8.3.2 | Hand protection                 | Not required.  |
| 8.3.3 | Eye protection                  | Eye protection should not be necessary.  |
| 8.3.4 | Other                           | None.  |
| 8.4   | Environmental exposure controls |  |
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Sheet No. 1605

Version 3

Page 3 of 5

Edited

Deleted

## 9 Physical and chemical properties

|                              |                                    |              |
|------------------------------|------------------------------------|--------------|
| 9.1 Appearance               | Ingot                              |              |
| 9.2 Colour                   | 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                     |              |
| 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:<br>Upper:<br>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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|                           | Edited     |                       | Deleted   |             |

## 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.<br>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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|                           | 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**

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.*