# Material Safety Data Sheet

**IPS e.max Press**

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**Company**

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

## 1 Commercial product name and supplier

### 1.1 Commercial product name / Designation

**IPS e.max Press**

### 2 Composition

#### 2.1 Chemical characterization

Ceramic ingots made of: >57% SiO₂, Li₂O, K₂O, P₂O₅, ZrO₂, ZnO, Al₂O₃, MgO, La₂O₃ and pigments

#### 2.2 Hazardous components

None.

#### 2.3 Further information

None.

## 3 Hazards identification

Grinding dust (see 8.3.1).

## 4 First aid measures

### 4.1 Eye contact

No specific requirements.

### 4.2 Skin contact

No specific requirements.

### 4.3 Ingestion

No specific requirements.
5 Fire-fighting measures

5.1 Suitable extinguishing media
No specific requirements. Not combustible.

5.2 Extinguishing media to avoid
None.

5.3 Flash point
not applicable

5.4 Ignition temperature
not applicable

5.5 Explosion limits
Lower: Upper:
not applicable not applicable

5.6 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
None.

8 Exposure controls / Personal protection

8.1 Technical measures
Provide adequate local ventilation.

8.2 Control of threshold limits
None established.

8.3 Personal protective equipment

8.3.1 Respiratory protection
Avoid breathing dust. 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
Eye protection should not be necessary.

8.3.4 Other
None.

9 Physical and chemical properties

9.1 Appearance
Ingot

9.2 Colour
tooth shaded

9.3 Odour
odourless

9.4 Change of physical state

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 Further information
None.

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.

11 Toxicological information

11.1 Acute toxicity
This product is not hazardous according to EEC criteria.
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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
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.

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 ---
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.

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 National regulations
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15.2 NFPA Storage

15.3 Further information

None.

16 Other information

Version: 2
Changes: 1.5

The above mentioned data correspond to our present state of knowledge and experience. The safety data sheet serves as a 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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91/155/EEC
EU Safety Data Sheet

Date of issue / Reference: 17.08.2005
Replaces version of: hot
Date of printing: 17.10.2005
Sheet No.: 1608

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

1. Commercial product name and supplier
1.1 Commercial product name / Designation: IPS e.max Ceram
Veneering materials: Dentin, Deep Dentin, Occlusal Dentin, Margin, Incisal Edge, Transpa Incisal, Special Incisal, Transpa, Cervical Transpa, Opal Effect, Mamelon
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
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

2. Composition
2.1 Chemical characterization: Ceramic powder made of > 50% SiO2, CaO, Al2O3, CeO2, Na2O, K2O, B2O3, ZnO, F, Li2O, ZrO2, P2O5, SrO, TiO2 and pigments
2.2 Hazardous components: None.
2.3 Further information: None.

3. Hazards identification
Dust generation. Avoid breathing dust. Grinding dust (see 8.3.1).

4. First aid measures
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.
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 Technical measures
Provide adequate local ventilation.

8.2 Control of threshold limits
Grinding dust: Producer Industry recommends an exposure limit of 1.5 mg/m³.

8.3 Personal protective equipment

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.

8.3.4 Other
None.

9 Physical and chemical properties

9.1 Appearance
powder

9.2 Colour
different

9.3 Odour
odourless

9.4 Change of physical state
Test method:
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9.5 Density: not known
9.6 Vapour pressure: not applicable
9.7 Viscosity: not applicable
9.8 Solubility: non soluble

9.9 pH: not applicable
9.10 Flash point: not applicable
9.11 Ignition temperature: not applicable
9.12 Explosion limits: Lower: None.
Upper: not applicable
9.13 Further information: None.

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.

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: 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 ---

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 for any mode of transportation.

15 Regulatory information

The product is a medical device according to the EC-directive 93/42/EEC.

15.1 UN number

15.2 National regulations

15.3 EU number

15.4 Hazard symbols

15.5 Hazard designation
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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.

16 Other information: Version: 1

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