

# Material Safety Data Sheet

according to NOHSC:2011(2003)



**Product name :** Ivoclar Vivadent IPS Empress Esthetic Veneer  
**Statement of Hazardous Nature :** This product is classified as: Non Hazardous according to criteria of National Occupational Health and Safety Commission.  
**Revision :** 10.11.2009      **Version :** 1.0.0  
**Print date :** 10.11.2009

## 01. Identification of substance, preparation and company

**Product name :** Ivoclar Vivadent IPS Esthetic Veneer  
**Use of the substance / preparation :** Ceramic  
**Manufacturer/Supplier :** Ivoclar Vivadent AG  
**Street/P.O.Box :** Bendererstrasse 2, FL -9494 Schaan  
**Country code/Postal code/Town/City :** Fürstentum Liechtenstein  
**Telephone :** +(716) 691-0010  
**Telefax :** +423 / 235 35 35 or 373 40 40  
**Distributor :** Ivoclar Vivadent P/L (Australia), 1-5 Overseas Drive, Noble Park North, Victoria 3174  
Phone No.: +61-3 9795 9599, Tele fax No.: +61-3 9795 9645  
**Emergency information :** Poisons Information Centre: Dial 13 11 26  
24 hours a day, 7 days a week Australia wide

## 02. Hazards identification

### Statement of Hazardous Nature

This product is not classified as: Hazardous according to criteria of National Occupational Health and Safety Commission.  
Non-Dangerous Goods according to ADG.

### Hazard designation

Classification : Not classified  
ADG Classification: not classified  
UN Number: not classified

### Particular information pertaining specific risk for human and environment

None, if handled according to order.

## 03. Composition/information on ingredients

Chemical characterization : Ceramic powder made of > 55 % SiO<sub>2</sub> Al<sub>2</sub>O<sub>3</sub>, K<sub>2</sub>O, Na<sub>2</sub>O, CaO, B<sub>2</sub>O<sub>3</sub>, TiO<sub>2</sub>, CeO<sub>2</sub> and Pigments.

### Hazardous components

None

### Other ingredients determined not be hazardous

Non hazardous ingredients

## 04. First-aid measures

**General** Avoid breathing grinding dust  
Immediately remove all contaminated clothing.

### After inhalation

Let in fresh air. Call a doctor, should the air passages be affected.

### After skin contact

Flush with plenty of water. Melted material presents a special hazard of deep thermal burns. If burn occurs, treat as any thermal burn

### After eye contact

Flush with plenty of water (10 - 15 min.). Contact a doctor immediately.

### After ingestion

Drink plenty of water. Do not induce vomiting. Contact a doctor immediately.

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## 05. Fire-fighting measures

### **Suitable extinguishing media**

Not combustible under normal conditions. Adapt extinguishing measures to suit the environment.

### **Unsuitable extinguishing media**

Waterjet. Do not use direct water stream.

### **Special risk posed by the substance or by the actual preparation, its combustion products or gases discharged**

None known

### **Special protective equipment**

When extinguishing fires, use breathing apparatus with an independent source of air.

## 06. Accidental release measures

### **Personal precautions**

Wear suitable protective clothing, gloves and eye/face protection.

### **Environmental precautions**

Prevent from flowing into surface water/ground water.

### **Methods for cleaning up/collecting**

Take up with a mechanical source and proceed according to the waste disposal regulations.

### **Additional information**

Remove according to regulations.

## 07. Handling and storage

### **Information for safe handling**

Containers to be opened and handled with care. Make sure that ventilation is adequate. Only adequately trained personnel should handle this product. Keep out of reach of children.

### **Information about protection against explosions and fires**

No anti-explosion measures necessary.

### **Requirements to be met by storerooms and containers**

Keep only in the original container. Store at 12-28 °C . Store in a dry place

### **Information about separation of incompatible products**

Store the foodstuffs separately. Sensitive to cold below < 2 °C

## 08. Exposure controls and personal protection

Producer Industry recommends an exposure limit of 1.5 mg/m<sup>3</sup>.

### **Additional information about engineering measures**

No particular measures required. Technical measures Provide adequate local ventilation. Control airborne concentration below the exposure guideline. Dust exposure limit: 1.5 mg/m<sup>3</sup>. Control airborne concentration below the exposure guideline.

### **Components with critical values that require monitoring at the workplace (exposure limits)**

Dust and Vapours Vapour pressure not applicable (20°C)

Specification : TWA (AUS)

Value : MAK 0.0 mg/m<sup>3</sup>

### **Personal protective equipment**

Do not eat or drink during work - no smoking. Keep away from food, drink and animal feeding stuff.. Avoid contact with skin and eyes. Respiratory protection In dusty atmospheres, use an approved dust respirator P2. If metal fumes are present, use an approved high-efficiency particulate respirator (P3).

### **Respiratory protection**

Provide for good ventilation. Respiratory protection Respiratory Protection. Avoid inhalation of dust while grinding. In dusty atmospheres, use an approved dust respirator

### **Hand protection**

Short-term exposure (< 30 min): disposable gloves, e.g. nitrile rubber, material thickness 0.1 mm (Australian Standard 2161).  
Long-term exposure (Level 6: < 480 min): protective gloves, e.g. nitrile rubber, material thickness 0.7 mm (Australian Standard 2161).

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## Eye protection

Use tightly fitting safety glasses (Australian Standard AS 1336 and AS/NZS 1337).

## Body protection

No particular measures required.

## 09. Physical and chemical properties

### Image

**Form :** powder  
**Colour :** different  
**Odour :** odourless

### Relevant safety data

<b>Melting point / range :</b>	( 1013 hPa )		not applicable	°C	
<b>Casting point / range :</b>	( 1013 hPa )	ca.	not applicable	°C	
<b>Flash point :</b>			not applicable	°C	DIN 51755
<b>Ignition temperature :</b>			not applicable	°C	
<b>Lower explosion limit :</b>			not applicable	% b.v.	
<b>Upper explosion limit :</b>			not applicable	% b.v.	
<b>Density :</b>	( 20 °C )		not applicable	g/cm <sup>3</sup>	
<b>Solubility in water :</b>	( 20 °C )		non Soluable	% b.w.	
<b>pH value :</b>			not applicable		

## 10. Stability and reactivity

### Conditions to avoid

None, if handled according to order.

### Materials to avoid

None known.

### Hazardous decomposition products

None if used in accordance with instructions.

## 11. Toxicological information

### Toxicological tests

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

#### Primary irritant effect

No data available

#### Sensitization

No data available.

### Experience on practice

No data available

## 12. Ecological information

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

### Details on elimination (persistence / degradability)

#### Abiotoxic elimination

No data available.

#### Biological degradation / elimination

No data available.

### Fate in environmental compartments

There are no data available on the preparation itself.

### Ecotoxic effects

#### Performance in sewage-treatment plants



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