

# Material Safety Data Sheet

according to NOHSC:2011(2003)



**Product name :** Ivoclar Vivadent IPS e.max Ceram ZirLiner Build-up Liquid  
**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 e.max Ceram ZirLiner Build-up Liquid  
**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

Mixture of butanediol, water and chloride

### Hazardous components

None

### Other ingredients determined not be hazardous

Non hazardous ingredients

## 04. First-aid measures

### General

#### After inhalation

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

#### After skin contact

Flush with plenty of water.

#### 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.

## 05. Fire-fighting measures

### Suitable extinguishing media

. Water fog, carbon dioxide, foam, dry chemicals.

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## 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.

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## 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. Do not breath vapour.

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## 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

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## 08. Exposure controls and personal protection

### Additional information about engineering measures

No particular measures required. Technical measures Provide adequate local ventilation. Explosion limits Lower: > 1.9 Vol%

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

Dust and Vapours Vapour pressure 0.06 mbar (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).

### Eye protection

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

### Body protection

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No particular measures required.

## 09. Physical and chemical properties

### Image

**Form :** liquid  
**Colour :** colourless  
**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>			>100	°C	DIN 51755
<b>Ignition temperature :</b>			> 390	°C	
<b>Lower explosion limit :</b>			not applicable	% b.v.	
<b>Upper explosion limit :</b>			not applicable	% b.v.	
<b>Density :</b>	( 20 °C )		1.1	g/cm <sup>3</sup>	
<b>Solubility in water :</b>	( 20 °C )		soluable	% b.w.	
<b>pH value :</b>					

## 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

Oral LD50 for rats: 18610 mg/kg

### Primary irritant effect

Prolonged or repeated exposure may cause drying or irritation of the skin. Excessive exposure may cause eye and respiratory irritation.

### Sensitization

No data available.

### Experience on practice

Combustion products include: Carbon monoxide and carbon dioxide

## 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.

### Ecotoxicological effects

#### Performance in sewage-treatment plants

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

## 13. Disposal considerations

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**Product** EU waste key 18 01 07

Concentrate: The cleaned-up material must be disposed of in accordance with Federal, State or Local regulations.

## Contaminated packaging

Contaminated packaging must be emptied of all residues and, following appropriate cleaning, may be sent to a recycling plant. Un cleaned packaging must be disposed of in the same manner as the medium.

## 14. Transport information Product is not classified for any mode of transportation

### Land transport ADG

**Classification**

**Class :** - ADR RID

### Maritime transport IMDG

**Classification**

**IMDG-Code :** - EMS UN  
Number  
Packing  
Group MFAG  
Proper  
shipping  
name ADNR

### Air transport ICAO-TI and IATA-DGR

**Classification**

**Class :** - ICAO / IATA-DGR  
UN ICAO / IATA-DGR  
Proper shipping name  
UN Number

## 15. Regulatory information

**Classification** This product does not require classification according to the criteria of the EC. The product is a medical device according to the EC-directive 93/42

**Danger symbol and danger designation**



Not required.

### Hazard-determining components of labelling

None : MAK value 0.0 mg/m<sup>3</sup> ml/m<sup>3</sup> (ppm)

### R-phrases

43 May cause sensitisation by skin contact.  
36/37/38 Irritating to eyes, respiratory system and skin.

### S-phrases

37/39 Wear suitable gloves and eye/face protection.  
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice .

## 16. Other information

### Processing instructions / technical data sheets

Please observe the label/directions for use!

### Further information

This is a medical device classified under the requirements of EU and TGA . Complies with ISO 8891, ISO 9693

### Contact

Dr. Peter Lobo

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.