

# Material Safety Data Sheet

according to NOHSC:2011(2003)



**Product name :** Ivoclar Vivadent Vivaglass Liner  
**Statement of Hazardous Nature :** This product is classified as: Non Hazardous according to criteria of National Occupational Health and Safety Commission.  
**Revision :** 21.07.2009      **Version :** 1.0.0  
**Print date :** 21.07.2009

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## 01. Identification of substance, preparation and company

**Product name :** Ivoclar Vivadent Vivaglass Liner  
**Use of the substance / preparation :** Glass ionomer cement

**Manufacturer/Supplier :** Ivoclar Vivadent AG  
**Street/P.O.Box :** Benderstrasse 2 FL-9494  
**Country code/Postal code/Town/City :** D-Schaan Fürstentum Liechtenstein  
**Telephone :** +423/235 35 35  
**Telefax :** +432/235 33 60  
**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

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## 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. Uncured material: Direct contact can cause eye and skin irritation. The material is contraindicated if a person is known to be allergic to any of the ingredients of the product.

### 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. May cause sensitisation by skin contact with skin. Irritating to eyes, skin and mucus membranes.

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## 03. Composition/information on ingredients

Chemical characterization Powder: Mixture of inorganic fillers, catalysts and pigments Liquid: Mixture of water, polyacrylic acid, HEMA (hydroxyethyl methacrylate) and dimethacrylates

### Hazardous components

CAS No. 9003-01-4 < 30 % Polyacrylic acid Xi: Irritant. R36/37/38: Irritating to eyes, respiratory system and skin. CAS No. 868-77-7 < 40 % HEMA Xi: Irritant. R43: May cause sensitisation by skin contact. R36/38: Irritating to eyes and skin.

### Other ingredients determined not be hazardous

Powder: none Liquid: Irritating to eyes, respiratory system and skin Liquid and uncured material may cause slight, reversible irritation. May cause sensitization by skin contact.

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## 04. First-aid measures

### General

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. Wash thoroughly with soap and water

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## 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. No hazards anticipated from swallowing small amounts incidentally

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## 05. Fire-fighting measures

### Suitable extinguishing media

Carbon dioxide. Extinguishing powder. Water fog, foam, dry chemicals. Not combustible under normal conditions. Adapt extinguishing measures to suit the environment.

### Unsuitable extinguishing media

None

### 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. Cool containers in the vicinity of the blaze using a water spray. Clean up with absorbent material. Prevent skin and eye contact. Clean area with large amounts of water.

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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. When using, do not eat, drink or smoke.

### 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 2-28 °C / 36-82 °F Do not store in open sunshine. Keep away from heat source. Avoid exposure to light.

### Information about separation of incompatible products

Store the foodstuffs separately.

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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. Control airborne concentration below the exposure guideline.

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

Dust and Vapours

Specification : TWA (AUS)  
Value : MAK 0 mg/m<sup>3</sup>

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## 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

## Respiratory protection

Provide for good ventilation.

## 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

No particular measures required.

## 09. Physical and chemical properties

### Image

**Form :** Paste (mixed powder and liquid)  
**Colour :** off-white to cream - yellowish  
**Odour :** practically odourless

### Relevant safety data

<b>Melting point / range :</b>	( 1013 hPa )	ca.	not applicable	°C	
<b>Casting point / range :</b>	( 1013 hPa )		not applicable	°C	
<b>Flash point :</b>			> 150 °C	°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 determined	g/cm <sup>3</sup>	
<b>Solubility in water :</b>	( 20 °C )		< 0.5	% b.w.	
<b>pH value :</b>			< 2 (Liquid and uncured material)		

## 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: >5000 mg/kg Liquid and uncured material: Direct contact may cause eye irritation. Skin: repeated or prolonged exposure may cause slight irritations. Vivaglass Liner possesses no cytotoxic potential.

### Primary irritant effect

Uncured material: prolonged or frequently repeated skin contact may cause allergic skin reactions in some individuals

### Sensitization

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No data available.

## Experience on practice

The product has sensitizing effects. Long contact: irritating of skin/eyes/respiratory tract.

## 12. Ecological information

No ecological problems to be anticipated if properly handled and used. Do not discharge the liquid to sewers or natural waters. nearly insoluble

### 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

The product must not enter effluent, ground water, surface water or the soil.

## 13. Disposal considerations

### Product

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. Uncleaned packaging must be disposed of in the same manner as the medium.

## 14. Transport information

### Land transport ADG

Classification EU waste key 20 01 39

Class :                                 -   ADR  
  UN Number         RID  
  Packing Group Proper   Kemler Number  
  shipping name

### Maritime transport IMDG

Classification

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

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

Classification

Class :                                 -   ICAO / IATA-DGR  
  Proper shipping name   Subsidiary Risk Labels     Packing Instructions  
  UN Number                                 Packing Group

## 15. Regulatory information

### Classification

Danger symbol and danger designation



Xi: Irritant.

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**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**

2    Keep out of the reach of children.  
24/25                                        Avoid contact with skin and eyes.  
26    In case of contact with eyes, rinse immediately with plenty of water and seek medical advice .  
28    After contact with skin, wash immediately with plenty of water and soap.  
37/39                                        Wear suitable gloves and eye/face protection.

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**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 .

**Contact**

Dr. Peter Lobo

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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.

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