

# Material Safety Data Sheet

according to NOHSC:2011(2003)



**Product name :** Ivoclar Vivadent Heliobond  
**Statement of Hazardous Nature :** This product is classified as: Non Hazardous according to criteria of National Occupational Health and Safety Commission.  
**Revision :** 10.07.2014      **Version :** 1.0.1  
**Print date :** 10.07.2014

## 01. Identification of substances, preparation and company

**Product name:** Ivoclar Vivadent Heliobond  
**Use of the substance / preparation:** Light curing primer agent  
**Manufacturer / Supplier:** Ivoclar Vivadent AG  
**Street / P O Box:** Benderstrasse 2  
**Country code / Postal Code / Town / City:** FL-9494 Schaan  
Principality of Liechtenstein  
**Telephone:** + 423 235 35 35  
**Telefax:** + 423 235 33 60  
**Distributor:** Ivoclar Vivadent Pty Ltd  
1 – 5 Overseas Drive  
Noble Park North VIC 3174  
Australia  
**Telephone:** + 61 3 9795 9599  
**Telefax:** + 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 classified as: Non Hazardous according to criteria of National Occupational Health and Safety Commission.

### Hazard designation

Classification: not classified



Xi – Irritant



Xi – Sensitising

ADG Classification: not classified

UN Number: not classified

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

#### R phrases

R36/37/38 | Irritating to eyes, respiratory system and skin.  
R43 | May cause sensitisation to skin on contact.

#### S phrases

S2 | Keep out of the reach of children.  
S24/25 | Avoid contact with skin and eyes.  
S26 | In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S28 | After contact with skin, wash immediately with plenty of water and soap.  
S37/39 | Wear suitable gloves and eye/face protection.

## 03. Composition / information on ingredients

### Chemical characterisation

Mixture of Bis-GMA, triethyleneglycol dimethacrylate and other non-hazardous materials.

### Hazardous components

CAS NO: 1565-94-2      50-100%      Bis-GMA      Xi: R36/38  
CAS NO: 109-16-0      25-50%      Triethyleneglycol dimethacrylate      Xi: R36/37/38 R43

### Dangerous component / Risk phrases:

R36/37/38 | Irritating to eyes, respiratory system and skin.  
R43 | May cause sensitisation to skin on contact.

# Material Safety Data Sheet

according to NOHSC:2011(2003)



**Product name :** Ivoclar Vivadent Heliobond  
**Statement of Hazardous Nature :** This product is classified as: Non Hazardous according to criteria of National Occupational Health and Safety Commission.  
**Revision :** 10.07.2014      **Version :** 1.0.1  
**Print date :** 10.07.2014

---

## 04. First-aid measures

### **General**

Immediately remove all contaminated clothing. Let in fresh air. In case of unconsciousness, place patient stably in side position and seek medical assistance immediately.

### **After inhalation**

Let in fresh air. Remove to fresh air. Seek medical assistance immediately.

### **After skin contact**

After contact with skin, wash immediately with plenty of water and soap.

### **After eye contact**

Flush with plenty of water (10 – 15 minutes) and seek medical assistance immediately.

### **After ingestion**

Rinse out mouth and drink plenty of water. Do not induce vomiting. Seek medical assistance immediately.

---

## 05. Fire-fighting measures

### **Suitable extinguishing media**

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

### **Unsuitable extinguishing media**

Waterjet.

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

Prevent any spillage from entering drains or watercourses.

### **Special protective equipment**

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

Firefighters should wear full protective clothing including self-contained breathing apparatus.

---

## 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.

Complete the disposal in compliance with all applicable Local, State and Federal government regulations.

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

Do not allow to flow off into the drains, surface water / ground water.

Take up with a mechanical source and precede according to the water disposal regulations.

Clean up with liquid binding material (sand, dolomite, acid binders, universal binders and sawdust).

Complete the disposal in compliance with all applicable Local, State and Federal government regulations.

### **Additional information**

Prevent skin and eye contact.

---

## 07. Handling and storage

### **Information for safe handling**

Containers to be opened and handled with care. Make sure ventilation is adequate. Use only in a well-ventilated area.

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**

Store only in original container.

Store in a dry, well-ventilated area in the original container. Keep container tightly closed.

Store at 2 – 28°C / 36 – 82°F. Do not store in open sunshine. Keep away from heat source.

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

Store foodstuffs separately.

# Material Safety Data Sheet

according to NOHSC:2011(2003)



Product name : Ivoclar Vivadent Heliobond  
 Statement of Hazardous Nature : This product is classified as: Non Hazardous according to criteria of National Occupational Health and Safety Commission.  
 Revision : 10.07.2014 Version : 1.0.1  
 Print date : 10.07.2014

## 08. Exposure controls and personal protection

### Additional information about engineering measures

No particular measures required.

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

None.

Specifications: TWA (AUS)

Value: MAK 0mg/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

Provide for good ventilation.

### Hand protection

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

Commercial medical gloves do not provide protection against the sensitising effect of methacrylates.

Check penetration time for the specific gloves used with the glove manufacturer. Solvent resistant gloves.

### Eye protection

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

An eyewash fountain should be located in the immediate working area. Wear eye protection when mixing or using. Use approved close fitting safety goggles and / or visor for splash protection.

### Body protection

No particular measures required.

## 09. Physical and chemical properties

### Image

Form:	Liquid
Colour:	Yellowish
Odour:	Characteristic

### Relevant safety data

Melting point/range:	(1013 hPa)		n/a	°C	
Casting point/range:	(1013 hPa)	ca.	n/a	°C	
Flash point:			>200	°C	DIN 51755
Ignition temperature			n/a	°C	
Viscosity:			Not determined	mPas	
Vapour pressure:			Not determined	mbar	
Density:	(20°C)		1.14	g/cm <sup>3</sup>	
Solubility in water:	(20°C)		<0.1	g/l	
pH value:			Not determined		

## 10. Stability and reactivity

### Conditions to avoid

Avoid excessive heat and direct sunlight. Stable under normal handling and storage conditions.

### Materials to avoid

No further relevant information available.

### Hazardous decomposition products

No further relevant information available.

## 11. Toxicological information

### Toxicological tests

#### Primary irritant effect

Prolonged or repeated exposure may cause drying or irritation of the eyes, skin and mucous membranes.

Ingestion and prolonged exposure to skin and eyes should be avoided, as should inhalation of any generated vapours

# Material Safety Data Sheet

according to NOHSC:2011(2003)



**Product name :** Ivoclar Vivadent Heliobond  
**Statement of Hazardous Nature :** This product is classified as: Non Hazardous according to criteria of National Occupational Health and Safety Commission.  
**Revision :** 10.07.2014      **Version :** 1.0.1  
**Print date :** 10.07.2014

---

### Sensitisation

Prolonged or frequently repeated skin contact may cause allergic skin reactions in some individuals.

### Experience on practice

Excessive exposure may cause eye and respiratory irritation.

---

## 12. Ecological information

### Details on elimination (persistence / degradability)

#### Abiotical elimination

No data available.

#### Biological degradation / elimination

No data available.

#### Fate in environmental compartments

Hazardous for water.

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

#### Ecotonical effects

#### Performance in sewage/treatment plants

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

---

## 13. Disposal consideration

### Product

Concentrate: Avoid contamination of ground water or waterways.

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

Clean up with liquid binding material (sand, dolomite, acid binders, universal binders and sawdust).

Complete the disposal in compliance with all applicable Local, State and Federal government 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.

Responsibility for proper waste disposal rests with the generator of the waste.

Dispose of any waste material (including containers) in accordance with all applicable Local, State and Federal government regulations regarding waste management methods.

---

## 14. Transport information

### Land transport ADG

Classification: not classified

ADG Class: not classified

UN Number: not classified

Label: not classified

Packing Group: not classified

### Maritime transport IMDG

Classification: not classified

ADNR Class: not classified

UN Number: not classified

Label: not classified

Packing Group: not classified

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

Classification: not classified

ICAO/IATA Class: not classified

UN Number: not classified

Label: not classified

Packing Group: not classified

# Material Safety Data Sheet

according to NOHSC:2011(2003)



**Product name :** Ivoclar Vivadent Heliobond  
**Statement of Hazardous Nature :** This product is classified as: Non Hazardous according to criteria of National Occupational Health and Safety Commission.  
**Revision :** 10.07.2014      **Version :** 1.0.1  
**Print date :** 10.07.2014

## 15. Regulatory information

### Danger symbol and danger designation



Xi – Irritant



Xi – Sensitising

### Hazard-determining components of labelling

Triethyleneglycol dimethacrylate

### R phrases

R36/37/38 | Irritating to eyes, respiratory system and skin.

R43 | May cause sensitisation to skin on contact.

### S phrases

S2 | Keep out of the reach of children.

S24/25 | Avoid contact with skin and eyes.

S26 | In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S28 | After contact with skin, wash immediately with plenty of water and soap.

S37/39 | Wear suitable gloves and eye/face protection.

## 16. Other information

### Processing instructions / technical data sheets

Please observe the label / directions for use.

### Further information

**Important Note:** The above-mentioned data correspond to our present state of knowledge and experience as of the date noted and are for use only as a guide in connection with occupational health and safety. 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 the properties of the product.

We make no representation, guarantee or warranty, express or implied, as to the accuracy, reliability or completeness of the information and assume no responsibility for injury damage or loss resulting from the use of the material.

### Contact

Dr Peter Lobo - Ivoclar Vivadent Pty Ltd 1 – 5 Overseas Drive Noble Park North VIC 3174 Australia

Tel: + 61 3 9795 9599

This data is based on our present knowledge; however, this shall not constitute a guarantee for any specific product features and shall not establish a legally contractual relationship.