

# Material Safety Data Sheet

according to NOHSC:2011(2003)



**Product name :** Ivoclar Vivadent Multilink Automix  
**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 Multilink Automix  
**Use of the substance / preparation :** Resin based dental luting material  
**Manufacturer/Supplier :** Ivoclar Vivadent AG  
**Street/P.O.Box :** Bänderstrasse 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 Base and Catalyst Pastes of dimethacrylates, hydroxyethyl methacrylate (HEMA), inorganic fillers, ytterbiumtrifluoride, initiators, stabilizers and pigments

### Hazardous components

22-26 % Dimethacrylates (CAS No. 1565-94-2, 72869-86-4, 4163738-1) CAS No. 868-77-7 6-7 % HEMA Xi:

Irritant. R43: May cause sensitisation by skin contact. R36/38: Irritating to eyes and skin. CAS No. 94-36-0 < 1 %

Benzoylperoxide Xi: Irritant. R36: Irritating to eyes. R43: May cause sensitisation by skin contact.

### Other ingredients determined not be hazardous

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.

## 04. First-aid measures

### General

#### After inhalation

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

#### After skin contact

# Material Safety Data Sheet

according to NOHSC:2011(2003)



**Product name :** Ivoclar Vivadent Multilink Automix  
**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

Flush with plenty of water.

### **After eye contact**

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

### **After ingestion**

swallowing small amounts incidentally to normal handling. If you feel unwell, seek medical advice (show this safety data sheet). Remove to fresh air.

## **05. Fire-fighting measures**

### **Suitable extinguishing media**

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

### **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**

### **Special protective equipment**

none

## **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**

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**

Control of threshold limits MAK (Maximale Arbeitsplatzkonzentration, Germany, 1996) is 1000 ppm.

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

No particular measures required. Technical measures Provide adequate local ventilation.

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

Dust and Vapours; Vapour pressure 59 mbar (20°C) 0°C)

Specification : TWA (AUS)

Value : MAK 0.0 mg/m<sup>3</sup> MAK values : 1000 ppm

### **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

# Material Safety Data Sheet

according to NOHSC:2011(2003)



**Product name :** Ivoclar Vivadent Multilink Automix  
**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

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

No particular measures required.

## 09. Physical and chemical properties

### Image

**Form :** Paste  
**Colour :** off-white to cream  
**Odour :** Particularly 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>           |              |                | >150           | °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 )    |                | <1             | % b.w.            |
| <b>pH value :</b>              |              |                | not determined |                   |

## 10. Stability and reactivity

### Conditions to avoid

None, if handled according to order. Avoid heat.

### Materials to avoid

None known.

### Hazardous decomposition products

Uncured material: Irritating to eyes, respiratory system and skin. May cause sensitisation by skin contact.

## 11. Toxicological information

### Toxicological tests

Multilink possesses no cytotoxic potential.

non-mutagenic

### Primary irritant effect

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

### Sensitization

. Uncured material: prolonged or frequently repeated skin contact may cause allergic skin reactions.

### Experience on practice

No hazards anticipated from swallowing small amounts incidentally to normal handling.

## 12. Ecological information

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

### Details on elimination (persistence / degradability)



# Material Safety Data Sheet

according to NOHSC:2011(2003)



**Product name :** Ivoclar Vivadent Multilink Automix  
**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

---

R43: May cause sensitisation by skin contact. R36/38: Irritating to eyes and skin. CAS No. 94-36-0 < 1 % Benzoylperoxide Xi: Irritant. R36: Irritating to eyes. R43: May cause sensitisation by skin contact  
**S-phrases**

---

## 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.