

# Material Safety Data Sheet

according to NOHSC:2011(2003)



**Product name :** Ivoclar Vivadent SR Spectra Opaquer Liquid  
**Statement of Hazardous Nature :** This product is classified as: Non Hazardous according to criteria of National Occupational Health and Safety Commission.  
**Revision :** 5.11.2010      **Version :** 1.0.0  
**Print date :** 5.11.2010

## 01. Identification of substance, preparation and company

**Product name :** Ivoclar Vivadent SR Spectra Opaquer Liquid  
**Use of the substance / preparation :** Crowns- and bridges material system  
**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

## 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: 1247

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

Uncured material: May cause sensitization by skin contact. Direct contact may cause eye and skin irritation.

## 03. Composition/information on ingredients

### Chemical characterization

Mixture of Methyl methacrylate stab., Dimethacrylate and Catalyst

### Hazardous components

CAS No. 80-62-6 > 55 % Methylmethacrylate  
Xi: Irritant. F: Highly flammable. R11: Highly flammable. R43: May cause sensitisation by skin contact. R36/37/38: Irritating to eyes, respiratory system and skin

### Hazards identification

Highly flammable. Do not inhale vapours. Irritating to eyes, respiratory system and skin. May cause sensitization by skin contact.

## 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

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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.

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

### **Suitable extinguishing media**

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

### **Unsuitable extinguishing media**

Not known

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

Cool containers in the vicinity of the blaze using a water spray.

### **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. Clean up with absorbent material such as sawdust, diatomaceous earth or universal absorbents.

Dispose of according to local and national regulations.

Do not allow to flow off into the drains or waters.

### **Additional information**

Prevent skin and eye contact. Clean area with large amounts of water. Clean up with absorbent material.

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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. Usual hygienic measures for dental practice

### **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.

### **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**

ACGIH (USA) Threshold Limit Value (TLV) is 10 mg/m<sup>3</sup> TWA

(Time Weighted Average)-8 hours.

Hygienists, USA) Threshold Limit Value (TLV) is 100 ppm (Ceiling).

Lower: 2.1 Vol%

Upper: 12.5 Vol%

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

**Specification :** TWA (AUS)  
**Value :** MAK 50 ml/m<sup>3</sup> (ppm) 100 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

### Respiratory protection

Provide for good ventilation. In poorly ventilated areas, use air-purifying respiratory protection apparatus

### 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). Commercial medical gloves do not provide protection against the sensitizing effect of methacrylates. Check penetration time for the specific gloves used with the glove manufacturer. Solvent resistant gloves.

### Eye protection

Use tightly fitting safety glasses (Australian Standard AS 1336 and AS/NZS 1337). Eye wash fountain should be located in immediate work area.

### Body protection

No particular measures required.

## 09. Physical and chemical properties

### Image

**Form :** Clear Liquid  
**Colour :** Colourless  
**Odour :** Characteristic

### Relevant safety data

<b>Melting point / range :</b>	( 1013 hPa )		-48 °C	
<b>Boiling point / range :</b>	( 1013 hPa )	ca.	+103 °C	
<b>Flash point :</b>			10 °C	DIN 51755
<b>Ignition temperature :</b>			430 °C	
<b>Viscosity</b>			0.6 mPas	
<b>Vapour pressure</b>			40 mbar	
<b>Density :</b>	( 20 °C )		0.943 g/cm <sup>3</sup>	
<b>Solubility in water :</b>	( 20 °C )		1.6 g/l.	
<b>pH value :</b>			Not determined	

## 10. Stability and reactivity

### Conditions to avoid

In the presence of radical initiators (e.g. peroxides). Polymerisation with heat build-up may occur.

### Materials to avoid

None, if used in accordance to instructions

### Hazardous decomposition products

The product is highly flammable. Avoid ignition sources such as flames or spark producing equipment.

## 11. Toxicological information

### Toxicological tests

LC50/Rat: 3'750 ppm Oral LD50 for rats: 7'900 mg/kg

### Primary irritant effect

Prolonged or repeated exposure may cause drying or irritation of the skin.

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

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## Sensitization

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)

#### Abiotoxic elimination

No data available.

#### Biological degradation / elimination

No data available.

### Fate in environmental compartments

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

### Ecotoxicological effects

#### Performance in sewage-treatment plants

The product must not enter effluent, ground water, surface water or the soil. No ecological problems to be anticipated if properly handled and used. non soluble

## 13. Disposal considerations EU waste key16 05 06

### 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

**Class :** - ADR 3  
UN Number 1247  
Packing Group II RID 3  
shipping name Methyl Kemler Number 339  
methacrylates  
monomer, stabilized

### Maritime transport IMDG

#### Classification

**IMDG-Code :** - ADNR 3  
EMS UN Number  
1247 Packing Group II  
shipping name Methyl IMDG 32-04  
methacrylates  
monomer, stabilized MFAG 330  
EMS F-E, S-D

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

#### Classification

**Class :** ICAO / IATA-DGR  
Class 3  
Proper shipping name  
Methyl methacrylates  
monomer, stabilized  
Packing Instructions  
305  
Packing Instructions  
Packing Group II

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## Packing Instructions

UN Number 1247  
Packing Group II  
Instructions 305  
Passenger airplane  
max 5 L  
Cargo Airplane Max  
60L  
Further information  
Sample shipment not  
allowed by mail.  
Labels Flamm. Liquid

## 15. Regulatory information

### Classification

Danger symbol and danger designation



Xi



F : Xi: Irritant. F: Highly flammable. Contains Methylmethacrylate.

### Hazard-determining components of labelling

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

### R-phrases

11                      Highly flammable.  
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.  
9                      Keep container in a well-ventilated place.  
16                      Keep away from sources of ignition - No smoking.  
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                      Do not empty into drains  
29                      Take precautionary measures against static discharge.  
33                      After contact with skin, wash immediately with plenty of water and soap.  
37/39                  Wear suitable gloves and eye/face protection.

## 16. Other information

### Processing instructions / technical data sheets

Please observe the label/directions for use!

### Further information

This is a medical device classified under the requirements of EU and TGA .

### 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.