

# Material Safety Data Sheet

according to NOHSC:2011(2003)



**Product name :** Ivoclar Vivadent SR Spectra Opaquer Powder  
**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 Powder  
SR Spectra Opaquer Pink Powder

**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

Opaquer Powder of polymethylmethacrylate, copolymer, bariumsulphate, aluminium oxide, zinc oxide, titanium dioxide, catalyst and pigments

Opaquer Pink Powder of polymethylmethacrylate, titanium dioxide, catalyst and pigments

### Hazardous components

CAS No. 94-36-0 < 1.5 % Benzoylperoxide  
Xi: Irritant. R36: Irritating to eyes. R43: May cause sensitisation by skin contact.

### Hazards identification

Dust generation. Avoid breathing dust.

## 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.

# Material Safety Data Sheet

according to NOHSC:2011(2003)



**Product name :** Ivoclar Vivadent SR Spectra Opaquer Powder  
**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

## 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, 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.

## 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.

## 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.

## 08. Exposure controls and personal protection

Dust in air may be explosive.

### Additional information about engineering measures

ACGIH (USA) Threshold Limit Value (TLV) is mg/m3 TWA

# Material Safety Data Sheet

according to NOHSC:2011(2003)



**Product name :** Ivoclar Vivadent SR Spectra Opaquer Powder  
**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

(Time Weighted Average)-8 hours.  
Hygienists, USA) Threshold Limit Value (TLV) is ppm (Ceiling).  
Lower: Vol%  
Upper: Vol%

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

**Specification :** TWA (AUS)  
**Value :** MAK ml/m<sup>3</sup> (ppm) 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 :** Powder  
**Colour :** Different  
**Odour :** Low

### Relevant safety data

<b>Melting point / range :</b>	( 1013 hPa )	ca.	Not determined	°C	
<b>Boiling point / range :</b>	( 1013 hPa )		Not determined	°C	
<b>Flash point :</b>			>250	°C	DIN 51755
<b>Ignition temperature :</b>			>400	°C	
<b>Viscosity</b>			Not determined	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 )		nearly insoluble	g/l.	
<b>pH value :</b>			Not determined		

## 10. Stability and reactivity

### Conditions to avoid

None if used in accordance to instructions.

### Materials to avoid

None, if used in accordance to instructions

### Hazardous decomposition products

Product may decompose at elevated temperatures generating vapours which could be irritating (Methylmethacrylate).  
None, if used in accordance to instructions.

# Material Safety Data Sheet

according to NOHSC:2011(2003)



**Product name :** Ivoclar Vivadent SR Spectra Opaquer Powder  
**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

## 11. Toxicological information

### Toxicological tests

Polymethylmethacrylate: The oral LD50 for rats is > 10'000 mg/kg.

Benzoylperoxide: The oral LD50 for rats is > 7'710 mg/kg.

Titanium dioxide: The oral LD50 for rats is > 20'000 mg/kg.

### Primary irritant effect

Avoid breathing dust if generated.

May rarely cause an allergic reaction in susceptible people.

No adverse effects anticipated by this route of exposure incidental to proper industrial handling.

### Sensitization

Dust may irritate eyes.

### 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 key20 01 39

### 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	RID
	UN Number	Kemler Number
	Packing Group shipping name	

### Maritime transport IMDG

#### Classification

IMDG-Code :	- ADNR	IMDG
	EMS UN Number	MFAG
	Packing Group shipping name EMS F-E, S-D	

# Material Safety Data Sheet

according to NOHSC:2011(2003)



**Product name :** Ivoclar Vivadent SR Spectra Opaquer Powder  
**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

## Air transport ICAO-TI and IATA-DGR

### Classification

ICAO / IATA-DGR  
Class  
Proper shipping name  
Methyl methacrylates  
monomer, stabilized  
Packing Instructions  
Packing Instructions

**Class :** UN Number  
Packing Group  
Instructions  
Passenger airplane  
max  
Cargo Airplane Max  
Further information  
Sample shipment not  
allowed by mail.  
Labels

Packing Instructions  
Packing Group

## 15. Regulatory information

### Classification

#### Danger symbol and danger designation



Xi: Irritant. Contains Methacrylate.

#### 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  
28 advice .  
29 Do not empty into drains  
33 Take precautionary measures against static discharge.  
37/39 After contact with skin, wash immediately with plenty of water and soap.  
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.

**Material Safety Data Sheet**  
according to NOHSC:2011(2003)



**Product name :** Ivoclar Vivadent SR Spectra Opaquer Powder  
**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

---