1 Commercial product name and supplier

1.1 Commercial product name / Designation

SR Spectra Opaque Powder
SR Spectra Opaque Pink Powder

1.2 Application / Use

Crowns- and bridges material - system

1.3 Producer

Ivoclar Vivadent AG, Bendererstrasse 2, FL - 9494 Schaan Fürstentum Liechtenstein

1.4 Supplier

1.5 TOX emergency number

Emergency-Call: +423 / 235 35 35 or 373 40 40
Ivoclar Vivadent AG, FL-9494 Schaan, Liechtenstein

2 Composition

2.1 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

2.2 Hazardous components

CAS No. 94-36-0

< 1.5 % Benzoylperoxide
Xi: Irritant. R36: Irritating to eyes. R43: May cause sensitisation by skin contact.

2.3 Further information

None.

3 Hazards identification

Dust generation. Avoid breathing dust.

4 First aid measures

4.1 Eye contact

Flush with plenty of water. Consult a physician if irritation persists.

4.2 Skin contact

Wash thoroughly with soap and water.

4.3 Ingestion

Give large amounts of water.

4.4 Inhalation

Take into fresh air.

4.5 Further information

If respiratory irritation is experienced, call a physician.

5 Fire-fighting measures

5.1 Suitable extinguishing media

Carbon dioxide.
Extinguishing powder.
Water fog.
5.2 Extinguishing media to avoid
Do not use direct water stream.

5.3 Further information
None.

6 Accidental release measures
Clean up mechanically.
Dispose of according to local and national regulations.

7 Handling and storage

7.1 Handling
Only adequately trained personnel should handle this product.
Avoid dust build-up.
Keep out of reach of children.

7.2 Industrial hygiene
Usual hygienic measures for dental practice.
Avoid breathing dust.
When using, do not eat, drink or smoke.

7.3 Storage
Store at 12-28 °C / 54-82 °F.
Store in a dry place.

7.4 Place of storage
Avoid exposure to direct sunlight.

7.5 Fire- and explosion-protection
Dust in air may be explosive.

8 Exposure controls / Personal protection

8.1 Technical measures
Provide adequate local ventilation.

8.2 Control of threshold limits
Producer Industry recommends an exposure limit of 1.5 mg/m3.

8.3 Personal protective equipment

8.3.1 Respiratory protection
Avoid breathing dust.
In dusty atmospheres, use an approved dust respirator.
Avoid dust formation.

8.3.2 Hand protection
Gloves.

8.3.3 Eye protection
Safety goggles.

8.3.4 Other
Use only with adequate ventilation.

9 Physical and chemical properties

9.1 Appearance
powder

9.2 Colour
different

9.3 Odour
low

9.4 Change of physical state
Test method:
---

9.5 Density
1.2 g/cm³ (20°C)
9.6 Vapour pressure
not applicable

9.7 Viscosity
not applicable

9.8 Solubility
Solubility in
non soluble

9.9 pH
not applicable

9.10 Flash point
> 250 °C

9.11 Ignition temperature
> 400 °C

9.12 Explosion limits
Lower:
Upper:
not determined

9.13 Further information
None.

10 Stability and reactivity

10.1 Thermal decomposition
> 250 °C

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

10.3 Hazardous reactions
none known

10.4 Further information
None.

11 Toxicological information

11.1 Acute toxicity
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.

11.2 Subacute / Chronic toxicity
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.

11.3 Further information
Dust may irritate eyes.

12 Ecological information
No ecological problems to be anticipated if properly handled and used.
nearly insoluble
**13 Disposal considerations**

Burn in an adequate incinerator under carefully controlled conditions in accordance with local and national regulations.

**13.1 EU waste key**

20 01 39

**14 Transport information**

**14.1 Transport at land**

<table>
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<tr>
<th>ADR</th>
<th>RID</th>
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UN Number ---

Packing Group ---

Proper shipping name ---

**14.2 Transport at sea**

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UN Number ---

EMS ---

MFAG ---

Packing Group ---

Proper shipping name ---

**14.3 Air transport**

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</table>

UN Number ---

Proper shipping name ---

Subsidiary Risk ---

Labels ---

Packing Group ---

**Passenger airplane**

Packing Instructions ---

max. ---

**Cargo Airplane**

Packing Instructions ---

max. ---

**14.4 Further information**

Product is not classified for any mode of transportation.

**15 Regulatory information**

The product is a medical device according to the EC-directive 93/42.

This product does not require classification according to the criteria of the EC.

**15.1 UN number**

---

**15.2 National regulations**

---

**15.3 EU number**

---

**15.4 Hazard symbols**

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**15.5 Hazard designation**

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| 15.6 | Risk phrases         |
| 15.7 | Safety phrases       |
| 15.8 | MAK value            | --- ml/m³ (ppm) |
| 15.9 | BVD classification (CH) | ---          |
| 15.10| VbF (D)              |
| 15.11| Further information  | None.         |

**16 Other information**

Version: 3  
Changes: 2.2 / 13.1

*The above mentioned data correspond to our present state of knowledge and experience. 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 properties.*

This safety data sheet has been generated with the safety database 'ChemManager',  
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