

Material Safety Data Sheet

Telio Lab Opaquer Powder



Date of issue / Reference

20.07.2010

liprt

Replaces version of

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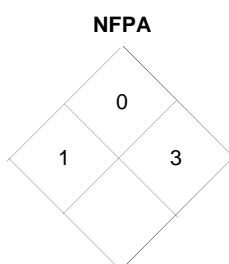
Company

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

1 Commercial product name and supplier

1.1 Commercial product name /
Designation

Telio Lab Opaquer Powder



HMIS	
H	1
F	0
R	3

1.2 Application / Use

Crowns- and bridges material

1.3 Producer

Ivoclar Vivadent AG, Bendererstrasse 2, 9494 Schaan
Principality of Liechtenstein (FL)

1.4 Supplier

Ivoclar Vivadent, Inc.
175 Pineview Drive, Amherst NY 14228, USA
2785 Skymark Ave., Unit 1 Mississauga, ON L4W4Y3, Canada
MSDS prepared by Anderjeet Gulati. Tel. No. 716 691-0010

1.5 24 Hour Emergency Assistance

Emergency-Call USA- Infotrac: 1-800-535-5053
Emergency-Call Canada - Canutec: 1-613-996-6666

General MSDS Assistance

US: 1-800-533-6825
Canada: 1-800-263-8182

2 Composition

2.1 Chemical characterization

Powder of methacrylate-copolymer, bariumsulphate, aluminium oxide, zinc oxide, titanium dioxide, catalyst and pigments

2.2 Hazardous components

CAS No. 94-36-0

< 1.5 % Benzoylperoxide

Xi: Irritant. E: Explosive. R3: Extreme risk of explosion by shock, friction, fire or other sources of ignition. R7: May cause fire. R36: Irritating to eyes. R43: May cause sensitisation by skin contact.

2.3 Further information

None.

3 Hazards identification

Dust generation

May cause sensitization by skin contact.

4 First aid measures

4.1 Eye contact

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

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|-----|---------------------|---|
| 4.2 | Skin contact | Wash thoroughly with water. |
| 4.3 | Ingestion | Give large amounts of water. |
| 4.4 | Inhalation | Take into fresh air.
If respiratory irritation is experienced, call a physician. |
| 4.5 | Further information | None. |
-

5 Fire-fighting measures

- | | | |
|-----|------------------------------|--|
| 5.1 | Suitable extinguishing media | Extinguishing powder.
Water fog.
Carbon dioxide. |
| 5.2 | Extinguishing media to avoid | Do not use direct water stream. |
| 5.3 | Flash point | Test method: |
| 5.4 | Ignition temperature | |
| 5.5 | Explosion limits | Lower:
Upper:
not determined |
| 5.6 | Further information | None. |
-

6 Accidental release measures

Clean up mechanically.
Avoid dust build-up.
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. |
| 7.2 | Industrial hygiene | Usual hygienic measures for dental practice.
Avoid breathing dust. |
| 7.3 | Storage | Store in dry well ventilated area away from sources of ignition and heat.
Store at 2-28 °C / 36-82 °F |
| 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 | Exposure controls | Provide adequate local ventilation. |
| 8.2 | Exposure limit values | Producer Industry recommends an exposure limit of 1.5 mg/m3. |

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8.3 Occupational exposure controls

8.3.1 Respiratory protection

Avoid breathing dust.

In dusty atmospheres, use an approved dust respirator.

8.3.2 Hand protection

Gloves.

8.3.3 Eye protection

Safety goggles.

8.3.4 Other

Use only with adequate ventilation.

8.4 Environmental exposure controls

9 Physical and chemical properties

9.1 Appearance

powder

9.2 Colour

various

9.3 Odour

low

9.4 Change of physical state

Test method:

9.5 Density

Not determined.

9.6 Vapour pressure

not applicable

9.7 Viscosity

not applicable

9.8 Solubility

Solubility in water

non soluble

9.9 pH

Not applicable.

9.10 Further information

Part. coeff. n-octanol/water

Evaporat. rate

None.

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10 Stability and reactivity

- | | | |
|------|----------------------------------|---|
| 10.1 | Thermal decomposition | > 250 °C |
| 10.2 | Hazardous decomposition products | None, if used in accordance to instructions.
Product may decompose at elevated temperatures generating vapours which could be irritating (Methylmethacrylate). |
| 10.3 | Conditions / materials to avoid | none known |
| 10.4 | Further information | None. |

11 Toxicological information

- | | | |
|------|-----------------------------|--|
| 11.1 | Acute toxicity | Copolymer: 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.
In rare cases can cause an allergic reaction. |
| 11.3 | Further information | Dust may irritate eyes. |

12 Ecological information

- | | | |
|------|-------------------------------|--|
| 12.1 | Ecotoxicity | No data available. |
| 12.2 | Mobility | No data available. |
| 12.3 | Persistence and degradability | No data available. |
| 12.4 | Bioaccumulative potential | No data available. |
| 12.5 | Further information | No ecological problems to be anticipated if properly handled and used.
nearly insoluble
German 'Wassergefahrdungs Klasse (WGK): not dangerous to water |

13 Disposal considerations

Take to an approved landfill or a waste incineration plant, under conditions approved by the local authority.

14 Transport information

- | | | | | | |
|------|-------------------|----------------------|-----|---------------|-----|
| 14.1 | Transport at land | ADR | --- | RID | --- |
| | | UN Number | --- | Kemler Number | --- |
| | | Packing Group | --- | | |
| | | Proper shipping name | --- | | |

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14.2	Transport at sea	ADNR	---	IMDG	---
		UN Number	---		
		EMS	---	MFAG	---
		Packing Group			
		Proper shipping name	---		
		Marine pollutant	---		
14.3	Air transport	ICAO / IATA-DGR	---		
		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 as a dangerous good for transport.			

15 Regulatory information

The product is a medical device according to the EC-directive 93/42/EEC.
This product is classified as a medical device under US and Canadian regulations and has been reviewed by the US Food and Drug Administration and Health Canada.

15.1 National regulations
15.2 NFPA Storage
15.3 Further information

None.

16 Other information

No other information.

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.

