

Material Safety Data Sheet

Helioseal



Date of issue / Reference

26.10.2010

liprt

Replaces version of

27.09.2007

lise / v4

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Sheet No. 1143

Version 5

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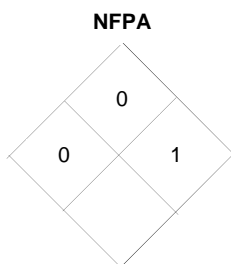
Company

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

1 Commercial product name and supplier

1.1 Commercial product name /
Designation

Helioseal



HMIS	
H	0
F	0
R	1

1.2 Application / Use

Light-curing fissure sealant

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

Mixture of Bis-GMA, dimethacrylate, titanium dioxide, initiators and stabilizers

2.2 Hazardous components

CAS No. 1565-94-2

< 60 % Bis-GMA

Xi: Irritant. R36: Irritating to eyes. R38: Irritating to skin.

CAS No. 109-16-0

< 40 % Triethylene glycoldimethacrylate

Xi: Irritant. R43: May cause sensitisation by skin contact. R36/37/38: Irritating to eyes, respiratory system and skin.

2.3 Further information

None.

3 Hazards identification

Uncured material may cause slight, reversible irritation. Avoid contact with skin, mucous membrane, and eyes. The material is contraindicated if a person is known to be allergic to any of the ingredients of the product.

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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 | No hazards anticipated from swallowing small amounts incidentally to normal handling. |
| 4.4 | Inhalation | Remove to fresh air. |
| 4.5 | Further information | If you feel unwell, seek medical advice (show this safety data sheet). |

5 Fire-fighting measures

- | | | |
|-----|------------------------------|---|
| 5.1 | Suitable extinguishing media | Water fog, carbon dioxide, foam, dry chemicals. |
| 5.2 | Extinguishing media to avoid | None known |
| 5.3 | Flash point | Test method: |
| 5.4 | Ignition temperature | not determined |
| 5.5 | Explosion limits | Lower:
Upper:
not applicable |
| 5.6 | 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. |
| 7.2 | Industrial hygiene | Usual hygienic measures for dental practice. |
| 7.3 | Storage | Store at 2-28 °C / 36-82 °F |
| 7.4 | Place of storage | Avoid exposure to light. |
| 7.5 | Fire- and explosion-protection | Not required. |

8 Exposure controls / Personal protection

- | | | |
|-----|-----------------------|--|
| 8.1 | Exposure controls | Good general ventilation should be sufficient. |
| 8.2 | Exposure limit values | None established. |

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8.3 Occupational exposure controls

8.3.1 Respiratory protection

Not required.

8.3.2 Hand protection

Gloves.

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.

8.3.3 Eye protection

Safety goggles.

8.3.4 Other

None.

8.4 Environmental exposure controls

9 Physical and chemical properties

9.1 Appearance

liquid

9.2 Colour

white

9.3 Odour

practically odourless

9.4 Change of physical state

Test method:

9.5 Density

1.25 g/cm³ (20°C)

9.6 Vapour pressure

not applicable

9.7 Viscosity

not determined

9.8 Solubility

Solubility in water

< 0.1 %

9.9 pH

Not determined.

9.10 Further information

Part. coeff. n-octanol/water

Evaporat. rate

None.

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10 Stability and reactivity

- | | | |
|------|----------------------------------|--|
| 10.1 | Thermal decomposition | None, if used in accordance to instructions. |
| 10.2 | Hazardous decomposition products | None under normal conditions of storage and use. |
| 10.3 | Conditions / materials to avoid | None. |
| 10.4 | Further information | Avoid exposure of product to light. |

11 Toxicological information

- | | | |
|------|-----------------------------|--|
| 11.1 | Acute toxicity | Oral LD50 for rats: >5000 mg/kg |
| 11.2 | Subacute / Chronic toxicity | Uncured material: prolonged or frequently repeated skin contact may cause allergic skin reactions. |
| 11.3 | Further information | No hazards anticipated from swallowing small amounts incidentally to normal handling. |

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 |

13 Disposal considerations

Take to 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 | --- | | |
| 14.2 | Transport at sea | ADNR | --- | IMDG | --- |
| | | UN Number | --- | | |
| | | EMS | --- | MFAG | --- |
| | | Packing Group | | | |
| | | Proper shipping name | --- | | |
| | | Marine pollutant | | | |

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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.

