

EU Safety Data Sheet

Heliomolar Flow



Date of issue / Reference

18.03.2005 hot

Replaces version of

24.01.2001

Date of printing

18.03.2005 **Sheet No. 1338**

Page 1 of 5

Company

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

1 Commercial product name and supplier

- 1.1 Commercial product name / Designation **Heliomolar Flow**
- 1.2 Application / Use Microfilled, radiopaque Composite
- 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, FL-9494 Schaan, Liechtenstein

2 Composition

- 2.1 Chemical characterization Paste of dimethacrylates, copolymer, silicondioxide, ytterbiumtrifluoride, catalysts, stabilizers and pigments
- 2.2 Hazardous components
- | | |
|--------------------|---|
| CAS No. 1565-94-2 | < 18 % Bis-GMA Xi: Irritant. R36: Irritating to eyes. R38: Irritating to skin. |
| CAS No. 109-16-0 | < 9 % Triethylene glycoldimethacrylate Xi: Irritant. R36/37/38: Irritating to eyes, respiratory system and skin. |
| CAS No. 72869-86-4 | < 16 % Urethanedimethacrylate Xi: Irritant. R36: Irritating to eyes. R38: Irritating to skin. |
- 2.3 Further information None.

3 Hazards identification

Uncured material: Direct contact can cause eye and skin irritation. The material is contraindicated if a person is known to be allergic to any of the ingredients of the product.

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).

EU Safety Data Sheet

Heliomolar Flow



Date of issue / Reference 18.03.2005 hot
Replaces version of 24.01.2001
Date of printing 18.03.2005 **Sheet No. 1338**

Page 2 of 5

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 | 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. Keep out of reach of children. |
| 7.2 | Industrial hygiene | Usual hygienic measures for dental practice. When using, do not eat, drink or smoke. |
| 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 | Technical measures | Good general ventilation should be sufficient. |
| 8.2 | Control of threshold limits | None established. |
| 8.3 | Personal protective equipment | |
| 8.3.1 | Respiratory protection | Not required. |
| 8.3.2 | Hand protection | Gloves. |
| 8.3.3 | Eye protection | Safety goggles. |
| 8.3.4 | Other | None. |

9 Physical and chemical properties

- | | | |
|-----|--------------------------|-------------------------------|
| 9.1 | Appearance | Paste |
| 9.2 | Colour | off-white to cream |
| 9.3 | Odour | Practically odourless |
| 9.4 | Change of physical state | Test method: --- |
| 9.5 | Density | 1.64 g/cm ³ (20°C) |

EU Safety Data Sheet

Heliomolar Flow



Date of issue / Reference 18.03.2005 hot
Replaces version of 24.01.2001
Date of printing 18.03.2005 **Sheet No. 1338**

Page 3 of 5

| | | |
|------|----------------------|------------------------------------|
| 9.6 | Vapour pressure | not applicable |
| 9.7 | Viscosity | not determined |
| 9.8 | Solubility | |
| | Solubility in | < 0.1 % |
| 9.9 | pH | not determined |
| 9.10 | Flash point | > 150 °C |
| 9.11 | Ignition temperature | not determined |
| 9.12 | Explosion limits | Lower: Upper: not applicable |
| 9.13 | Further information | None. |

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 | Hazardous reactions | 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 in some individuals. |
| 11.3 | Further information | No hazards anticipated from swallowing small amounts incidentally to normal handling. |

12 Ecological information

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

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Heliomolar Flow



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Page 4 of 5

13 Disposal considerations

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

13.1 EU waste key

20 01 39

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 ---

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 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

15.5 Hazard designation

EU Safety Data Sheet

Heliomolar Flow



Date of issue / Reference 18.03.2005 hot
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Date of printing 18.03.2005 **Sheet No. 1338**

Page 5 of 5

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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