

Material Safety Data Sheet

Multilink Automix



Date of issue / Reference

01.10.2007

lise / Version 2

Replaces version of

22.03.2005

hot

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Sheet No. 1582

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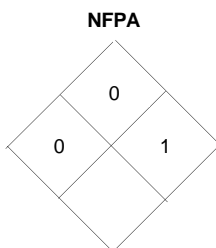
Company

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

1 Commercial product name and supplier

1.1 Commercial product name /
Designation

Multilink Automix



HMIS	
H	0
F	0
R	1
C	

1.2 Application / Use

Resin based dental luting 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 Andejeet 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

Base and Catalyst
Pastes of dimethacrylates, hydroxyethyl methacrylate (HEMA),
inorganic fillers, ytterbiumtrifluoride, initiators, stabilizers and
pigments

2.2 Hazardous components

22-26 % Dimethacrylates (CAS No. 1565-94-2, 72869-86-4, 41637-38-1)

R36/38: Irritating to eyes and skin.

CAS No. 868-77-9

6-7 % HEMA

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

CAS No. 94-36-0

< 1 % Benzoylperoxide

Xi: Irritant. E: Explosive. R2: Risk of explosion by shock, friction, fire or other sources of ignition. R36: Irritating to eyes. R43: May cause sensitisation by skin contact.

2.3 Further information

None.

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3 Hazards identification

Uncured material: May cause sensitization by skin contact. Direct contact may 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 water. |
| 4.3 | Ingestion | Give large amounts of water. No hazards anticipated from swallowing small amounts incidentally to normal handling. If you feel unwell, seek medical advice (show this safety data sheet). |
| 4.4 | Inhalation | Remove to fresh air. |
| 4.5 | Further information | None. |

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 | |
| 5.4 | Ignition temperature | |
| 5.5 | Explosion limits | not determined |
| 5.6 | Further information | Lower:
Upper:
not determined |
| 5.6 | Further information | None. |

Test method:

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 2-8 °C |
| 7.4 | Place of storage | Avoid exposure to direct sunlight. |
| 7.5 | Fire- and explosion-protection | Not required. |

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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.
Commercial medical gloves do not provide protection against the sensitizing effect of methacrylates. |
| 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:
not applicable |
| 9.5 | Density | not determined |
| 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 | 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 Hazardous reactions None.
- 10.4 Further information Avoid heat.

11 Toxicological information

- 11.1 Acute toxicity This product possesses no cytotoxic potential.
non-mutagenic
- 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

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 | --- | | |

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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 regulations and has been reviewed by the US Food and drug Administration.
This product does not require classification as Dangerous Goods.

15.1 National regulations

15.2 NFPA Storage

15.3 Further information None.

16 Other information

Version: 2
Changes: 1.5

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.