

Material Safety Data Sheet

Multilink Primer A

Date of issue / Reference

11.02.2008

lise / liboso

Replaces version of

01.10.2007

lise

Date of printing

11.02.2008

Sheet No. 1530

Page 1 of 5

Company

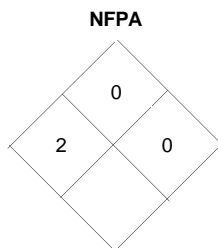
Ivoclar Vivadent AG, Bendererstrasse 2, FL - 9494 Schaan

Principality of Liechtenstein

1 Commercial product name and supplier

1.1 Commercial product name /
Designation

Multilink Primer A



HMIS	
H	2
F	0
R	0
C	

1.2 Application / Use

Bonding agent

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

Mixture of water and initiators

2.2 Hazardous components

2.3 Further information

None.

3 Hazards identification

Irritating to eyes. Ingestion, exposure to skin and eyes and inhalation of any generated vapours should be avoided.

4 First aid measures

4.1 Eye contact

Flush eyes with plenty of water.

4.2 Skin contact

Wash thoroughly with water.

4.3 Ingestion

No hazards anticipated from swallowing small amounts incidentally to normal handling.

Material Safety Data Sheet

Multilink Primer A

Date of issue / Reference

11.02.2008

lise / liboso

Replaces version of

01.10.2007

lise

Date of printing

11.02.2008

Sheet No. 1530

Page 2 of 5

4.4 Inhalation No specific requirements.

4.5 Further information None.

5 Fire-fighting measures

5.1 Suitable extinguishing media Not combustible.

5.2 Extinguishing media to avoid None known

Test method:

5.3 Flash point

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.

Wash the area with soap and water.

7 Handling and storage

7.1 Handling Only adequately trained personnel should handle this product. This product is intended for use in dentistry only. ... should always be handled with full recognition of its volatility and flammability.

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 / 36-46 °F.

7.4 Place of storage Store in a cool, dry place.

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.

8.3 Occupational exposure controls

8.3.1 Respiratory protection Not required.

8.3.2 Hand protection Gloves.

Material Safety Data Sheet

Multilink Primer A

Date of issue / Reference

11.02.2008

lise / liboso

Replaces version of

01.10.2007

lise

Date of printing

11.02.2008

Sheet No. 1530

Page 3 of 5

8.3.3 Eye protection

Safety goggles (patient).

Eye wash fountain should be located in immediate work area.

8.3.4 Other

None.

8.4 Environmental exposure controls

9 Physical and chemical properties

9.1 Appearance

Liquid

9.2 Colour

colourless

9.3 Odour

characteristic

9.4 Change of physical state

Test method:

9.5 Density

not determined

9.6 Vapour pressure

not applicable

9.7 Viscosity

not determined

9.8 Solubility

Solubility in water

miscible

9.9 pH

neutral

9.10 Further information

Part. coeff. n-octanol/water

Evaporat. rate

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 Conditions / materials to avoid

None, if used in accordance to instructions.

10.4 Further information

None.

Material Safety Data Sheet

Multilink Primer A

Date of issue / Reference

11.02.2008

lise / liboso

Replaces version of

01.10.2007

lise

Date of printing

11.02.2008

Sheet No. 1530

Page 4 of 5

11 Toxicological information

- 11.1 Acute toxicity Direct contact may cause eye irritation. Skin: repeated or prolonged exposure may cause slight irritations.
Amine: The oral LD50 for rats is 960 mg/kg.
non-mutagenic
Risk of serious damage to eyes.
- 11.2 Subacute / Chronic toxicity No data available.
- 11.3 Further information Ingestion, exposure to skin and eyes and inhalation of any generated vapours should be avoided.

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 German "Wassergefährdungs Klasse (WGK)": 1
Do not discharge the liquid to sewers or natural waters.

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

Material Safety Data Sheet

Multilink Primer A

Date of issue / Reference

11.02.2008

lise / liboso

Replaces version of

01.10.2007

lise

Date of printing

11.02.2008

Sheet No. 1530

Page 5 of 5

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.

This product does not require classification as Dangerous Goods.

15.1 National regulations

15.2 NFPA Storage

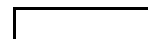
15.3 Further information

None.

16 Other information

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',
© ASSIST Applied Software Solutions in Science and Technology AG,
Weiherweg 3, CH-4104 Oberwil, Switzerland



Material Safety Data Sheet

Multilink Primer B



Date of issue / Reference

01.10.2007

lise / Version 4

Replaces version of

27.10.2006

casa

Date of printing

01.10.2007

Sheet No. 1531

Page 1 of 5

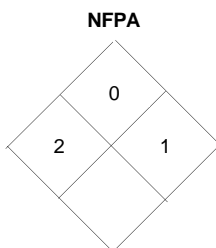
Company

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

1 Commercial product name and supplier

1.1 Commercial product name /
Designation

Multilink Primer B



HMIS	
H	2
F	0
R	1
C	

1.2 Application / Use

Bonding agent

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

Mixture of phosphonic acid acrylate, hydroxyethyl methacrylat (HEMA), methacrylate modified polyacrylic acid and stabilizer.

2.2 Hazardous components

< 4 % Methacrylate modified polyacrylic acid (CAS No. not known); Xi: R36/38-43

CAS No. 223681-84-3 < 50 % Phosphonic acid acrylate

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

CAS No. 868-77-9 < 50 % HEMA

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

2.3 Further information

None.

3 Hazards identification

May cause sensitisation by skin contact. Irritating to eyes and skin.

Material Safety Data Sheet

Multilink Primer B



Date of issue / Reference

01.10.2007

lise / Version 4

Replaces version of

27.10.2006

casa

Date of printing

01.10.2007

Sheet No. 1531

Page 2 of 5

4 First aid measures

- | | | |
|-----|---------------------|--|
| 4.1 | Eye contact | Flush eyes with plenty of water (10-15 min.). Call a physician. |
| 4.2 | Skin contact | Wash thoroughly with water. |
| 4.3 | Ingestion | After ingestion call a physician immediately and show this safety data sheet. Give large amounts of water. |
| 4.4 | Inhalation | Take into fresh air. |
| 4.5 | Further information | Remove contaminated clothing. |

5 Fire-fighting measures

- | | | |
|-----|------------------------------|------------------------------------|
| 5.1 | Suitable extinguishing media | No specific requirements. |
| 5.2 | Extinguishing media to avoid | None. |
| 5.3 | Flash point | |
| 5.4 | Ignition temperature | |
| 5.5 | Explosion limits | not applicable |
| 5.6 | Further information | Lower:
Upper:
not applicable |

Test method:

6 Accidental release measures

Clean up with absorbent material.
Clean area with large amounts of water.
Prevent skin and eye contact.

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.
Practice care and caution to avoid skin and eye contact.
Keep out of reach of children. |
| 7.3 | Storage | Store at 2-8 °C / 36-46 °F. |
| 7.4 | Place of storage | Store in a cool, dry place.
Avoid exposure to direct sunlight. |
| 7.5 | Fire- and explosion-protection | Keep away from heat source. |

8 Exposure controls / Personal protection

- | | | |
|-----|--------------------|--|
| 8.1 | Technical measures | Good general ventilation should be sufficient. |
|-----|--------------------|--|

Material Safety Data Sheet

Multilink Primer B



Date of issue / Reference	01.10.2007	lise / Version 4
Replaces version of	27.10.2006	casa
Date of printing	01.10.2007	Sheet No. 1531

Page 3 of 5

8.2 Control of threshold limits None established.

8.3 Personal protective equipment

8.3.1 Respiratory protection Respiratory Protection.

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
Eye wash fountain should be located in immediate work area.
Safety goggles or face-shield.

8.3.4 Other None.

9 Physical and chemical properties

9.1 Appearance liquid

9.2 Colour colourless

9.3 Odour characteristic

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 known

9.8 Solubility
Solubility in water
partially miscible

9.9 pH 1.0

9.10 Further information None.

Material Safety Data Sheet

Multilink Primer B



Date of issue / Reference	01.10.2007	lise / Version 4
Replaces version of	27.10.2006	casa
Date of printing	01.10.2007	Sheet No. 1531

Page 4 of 5

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 | Avoid excessive heat and direct sunlight. |
| 10.4 | Further information | Avoid exposure to light. |

11 Toxicological information

- | | | |
|------|-----------------------------|---|
| 11.1 | Acute toxicity | Phosphonic acid acrylate possesses a slight cytotoxic potential.
non-mutagenic
Mucous membranes: irritating.
Prevent skin and eye contact. |
| 11.2 | Subacute / Chronic toxicity | Uncured material: prolonged or frequently repeated skin contact may cause allergic skin reactions. |
| 11.3 | Further information | None. |

12 Ecological information

No specific ecological effects.
German "Wassergefährdungs Klasse (WGK)": 1

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

Material Safety Data Sheet

Multilink Primer B



Date of issue / Reference 01.10.2007 lise / Version 4
Replaces version of 27.10.2006 casa
Date of printing 01.10.2007 **Sheet No. 1531**

Page 5 of 5

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

Version: 4
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.