

Material Safety Data Sheet

Monobond Plus

Date of issue / Reference

20.04.2009 liprt

Replaces version of

Date of printing

07.05.2009

Sheet No. 1775

Version 1

Page 1 of 5

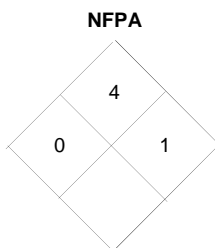
Company

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

1 Commercial product name and supplier

1.1 Commercial product name /
Designation

Monobond Plus



HMIS	
H	0
F	4
R	1

1.2 Application / Use

Single-Component primer agent between metal, glass-/oxide ceramics and resin.

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

Alcohol solution of silane methacrylate, phosphoric acid methacrylate and sulphide methacrylate.

2.2 Hazardous components

CAS No. 64-17-5

96 % Ethanol
F: Highly flammable. R11: Highly flammable.

2.3 Further information

None.

3 Hazards identification

Highly flammable.
May cause sensitization by skin contact.

4 First aid measures

4.1 Eye contact

Flush eyes with plenty of water.

4.2 Skin contact

Wash thoroughly with water.

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- | | | |
|-----|---------------------|--|
| 4.3 | Ingestion | Give large amounts of water. No hazards anticipated from swallowing small amounts incidentally to normal handling. |
| 4.4 | Inhalation | Take into 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 | Do not use direct water stream. |
| 5.3 | Flash point | 55 °F
(Ethanol) |
| 5.4 | Ignition temperature | 685 °F
(Ethanol) |
| 5.5 | Explosion limits | Lower:
Upper:
not determined |
| 5.6 | Further information | Cool containers in the vicinity of the blaze using a water spray.
Flammable liquid. Keep possible ignition sources away from vapours. |

Test method:

6 Accidental release measures

Dispose of according to local and national regulations.
Clean up with absorbent material such as sawdust, diatomaceous earth or universal absorbents.
Prevent from entering sewers or drains.

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 | Keep containers tightly closed.
Store at 2-28 °C / 36-82 °F |
| 7.4 | Place of storage | Store in dry well ventilated area. |
| 7.5 | Fire- and explosion-protection | Keep away from sources of ignition. |

8 Exposure controls / Personal protection

- | | | |
|-------|--------------------------------|--|
| 8.1 | Exposure controls | Good general ventilation should be sufficient. |
| 8.2 | Exposure limit values | MAK (Maximale Arbeitsplatzkonzentration, Germany) is mg/m ³ : 960 |
| 8.3 | Occupational exposure controls | |
| 8.3.1 | Respiratory protection | Not required. |

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8.3.2	Hand protection	Gloves.
8.3.3	Eye protection	Safety goggles.
8.3.4	Other	Eye wash fountain should be located in immediate work area.
8.4	Environmental exposure controls	

9 Physical and chemical properties

9.1	Appearance	clear liquid	
9.2	Colour	colourless	
9.3	Odour	like alcohols	
9.4	Change of physical state		Test method:
		not determined	
9.5	Density	0.79 g/ml (20°C)	
9.6	Vapour pressure		
		not determined	
		not determined	
9.7	Viscosity		
		not determined	
9.8	Solubility		
	Solubility in water		
		soluble in all proportions	
9.9	pH		
		Not applicable.	
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.

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10.3	Conditions / materials to avoid	None, if used in accordance to instructions.
10.4	Further information	The product is flammable. Avoid ignition sources such as flames or spark producing equipment.

11 Toxicological information

11.1	Acute toxicity	Oral LD50 for rats: > 6000 mg/kg No hazards anticipated from swallowing small amounts incidentally to normal handling. Ethanol solution: PEL 1000 ppm TLV 1000 ppm --
11.2	Subacute / Chronic toxicity	No data available.
11.3	Further information	Do not breathe vapour. Signs and symptoms of excessive exposure may be narcotic effects.

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.

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	3	RID	3
		UN Number	1170	Kemler Number	33
		Packing Group	II		
		Proper shipping name	Ethanol solution		
14.2	Transport at sea	ADNR	3	IMDG	3
		UN Number	1170		
		EMS	F-E, S-D	MFAG	305
		Packing Group	II		
		Proper shipping name	Ethanol solution		
		Marine pollutant			

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14.3	Air transport	ICAO / IATA-DGR	3
		UN Number	1170
		Proper shipping name	Ethanol solution
		Subsidiary Risk	--
		Labels	Flamm. Liquid
		Packing Group	II
	Passenger airplane	Packing Instructions	305
		max.	5 L
	Cargo Airplane	Packing Instructions	307
		max.	60 L

14.4 Further information

Sample shipment not allowed by mail.

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

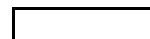
15.3 Further information

None.

16 Other information

None.

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.



Material Safety Data Sheet

Multilink Primer A

Date of issue / Reference

11.02.2008

lise / liboso

Replaces version of

01.10.2007

lise

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11.02.2008

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Company

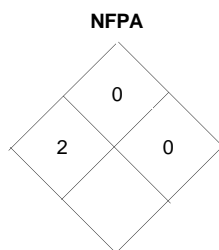
Ivoclar Vivadent AG, Bendererstrasse 2, FL - 9494 Schaan

Principality of Liechtenstein

1 Commercial product name and supplier

1.1 Commercial product name /
Designation

Multilink 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

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lise / liboso

Replaces version of

01.10.2007

lise

Date of printing

11.02.2008

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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.

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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.

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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

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01.10.2007

lise

Date of printing

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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.

This product does not require classification as Dangerous Goods.

15.1 National regulations

15.2 NFPA Storage

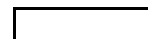
15.3 Further information

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',
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Weiherweg 3, CH-4104 Oberwil, Switzerland



Material Safety Data Sheet

Multilink Automix



Date of issue / Reference

01.10.2007

lise / Version 2

Replaces version of

22.03.2005

hot

Date of printing

01.10.2007

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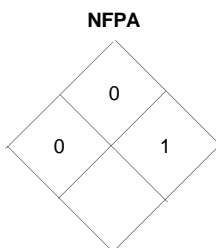
Company

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 | 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. |

Material Safety Data Sheet

Multilink Automix



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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. |

Material Safety Data Sheet

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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 | --- | | |

Material Safety Data Sheet

Multilink Automix



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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.

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

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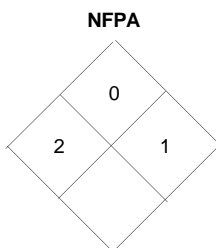
Company

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

1 Commercial product name and supplier

1.1 Commercial product name /
Designation

Multilink 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

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01.10.2007

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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. |
|-----|--------------------|--|

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- | | | |
|-------|-------------------------------|--|
| 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. |

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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 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 | --- | | |

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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

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.

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