

SAFETY DATA SHEETS

This SDS packet was issued with item:

077106677

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

077106453 077106461

The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).

077106628 077122468 077122484 077122492 273020304

MSDS Name: MULTILINK PRIMER A&B 2X3G

Kit Components:

: Multilink Primer A

: Multilink Primer B

Ivoclar/Vivadent

Multilink Primer A

Manufacturer MSDS Number: NFPA

0

0

0

SECTION 1 : Chemical Product and Company Identification

MSDS Name: Multilink Primer A

Manufacturer Name: Ivoclar/Vivadent

Address:

175 Pineview Drive,
AMHERST NY 14228

2785 Skymark Ave. Unit 1,
Mississauga, Ontario L4W 4Y3

For emergency only call INFOTRAC: 1-800-535-5053
In Canada, call CANUTEC: 613-996-6666

Product Description:

FOR PROFESSIONAL DENTAL USE ONLY

Manufacturer MSDS Revision Date:

December 5, 2003

General Use:

Bonding Agent

Product Identification:

Bonding Agent

Product Codes:

576825

SECTION 2 : Hazardous Ingredients/Identity Information

Chemical Name
Sulfonate CAS#
873-55-2 Percent
< 7%

OSHA PEL TWA: * Not Available
ACGIH TLV TWA: * Not Available
Hazardous: Yes

LD50/LC50/TDLO: Not Available
Chemical Name
Amine CAS#
3077-12-1 Percent
< 8%

OSHA PEL TWA: * Not Available
ACGIH TLV TWA: * Not Available
Hazardous: Yes

LD-50 for rate is 960 mg/kg
Chemical Name
Mixture of water and initiators
Comments:
Other Ingredients
Comments:
* All Exposure limits are in milligram per cubic meter of air (mg/m3)

SECTION 3 : Physical And Chemical Characteristics

Physical State/Appearance:
Liquid
Color:
Colorless
pH:
Neutral
Vapor Pressure:
mm Hg: Not Applicable
Vapor Density:
Air 1: Not Determined
Boiling Point:
Deg C: Not Applicable
Melting Point:
Deg C: Not Applicable
Solubility:
In water: Miscible
Specific Gravity:
H2O-1 g/cm3: Not Applicable
Odor Threshold:
Characteristic
FlashPoint:
> 150 deg C
Auto Ignition Temp:
Deg C: Not Applicable
Upper Flammable Explosive Limit:
% In Air: Not Applicable
Lower Flammable Explosive Limit:
% In Air: Not Applicable

SECTION 4 : Fire And Explosion Hazards

Fire:

Other Fire and Explosion Hazards: None

Flash Point:

> 150 deg C

Upper Flammable or Explosive Limit: % In Air: Not Applicable

Lower Flammable or Explosive Limit: % In Air: Not Applicable

Auto Ignition Temperature: Deg C: Not Applicable

Extinguishing Media:

Water fog, carbon dioxide, foam, dry chemicals

Hazardous Combustion Byproducts:

None

SECTION 5 : Health Hazards

Applies to all ingredients:

Routes of Exposure:

Ingestion, Inhalation, eyes, skin: prolong exposure may cause slight irritations. Risk of serious damage to eyes.

Chronic Effects:

Symptoms: Prolonged or repeated exposure to uncured material may cause irritation of the skin and eyes.

Carcinogenicity:

Potential Carcinogen: No

NTP: No

IARC: No

OSHA Reg.: No

Teratogenicity:

No

Embryo Toxicity:

No

Sensitization:

Yes

Reproductive Toxicity:

No

Other Toxicological Information:

Medical Conditions Generally Aggravated by Exposure: Ingestion, exposure to skin and eyes and inhalation of any generated vapors should be avoided.

Sulfonate :

Acute Health Effects:

LD50/TDLo: Not Available

Inhalation Effects:

LC50: Not Available

Amine:

Ingestion Effects:

Symptoms of Acute Exposure: The oral LD-50 for rat is 960 mg/kg.

SECTION 6 : Emergency And First Aid Procedures

Eye Contact:

Flush with plenty of water (10-15 Min.). Call a physician.

Skin Contact:

Wash thoroughly with water.

Inhalation:

Remove victim to fresh air.

Ingestion:

Give large amounts of water. Seek medical advice. (Show this safety data sheet)

SECTION 7 : Reactivity Data

Chemical Stability:

No

If No...Under What Conditions: Not Applicable

Incompatibilities with Other Materials:

Not required.

If So...Which Ones: Not Applicable

Reactivity:

Under What Conditions: None under normal conditions of storage and use

Hazardous Polymerization:

None, if used in accordance to instructions.

SECTION 8 : Precautions For Safe Handling

Spill Cleanup Measures:

Clean up mechanically. Wash the area with soap and water.

Storage:

Store at 2-8 deg C/36-46 deg F.

Waste Disposal:

Dispose of according to all local, state, provincial and federal regulations

Transportation Information:

Shipment: Not Applicable

SECTION 9 : Control Measures

Ventilation System:

Good general ventilation should be sufficient.

Hand Protection Description:

Gloves: Yes

Eye/Face Protection:

Safety goggles (patient).

Respiratory Protection:

Yes

Other Protective:

Avoid direct contact with eyes and skin.

SECTION 10 : Other Information

MSDS Revision Date:

December 5, 2003

MSDS Author:

Anderjeet Gulati

(716) 691-0010

Disclaimer:

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Ivoclar/Vivadent

Multilink Primer B

Manufacturer MSDS Number: NFPA

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SECTION 1 : Chemical Product and Company Identification

MSDS Name: Multilink Primer B

Manufacturer Name: Ivoclar/Vivadent

Address:

175 Pineview Drive,
AMHERST NY 14228

2785 Skymark Ave.
Unit 1, Mississauga,
Ontario L4W 4Y3

For emergency only call INFOTRAC: 1-800-535-5035

In Canada, call CANUTEC: 613-996-6666

Manufacturer MSDS Revision Date:

December 5, 2003

General Use:

Bonding Agent

Product Identification: Bonding Agent

MSDS

FOR PROFESSIONAL DENTAL USE ONLY

Product Codes:

576825

SECTION 2 : Hazardous Ingredients/Identity Information

Chemical Name

Methacrylate modified polyacrylic acid CAS#

Not Available Percent

< 4%

OSHA PEL TWA: * Not Available

ACGIH TLV TWA: * Not Available

Hazardous: Yes

Chemical Name

Phosphonic acid acrylate CAS#

223681-84-3 Percent

< 50%

OSHA PEL TWA: * Not Available

ACGIH TLV TWA: * Not Available

Hazardous: Yes

Chemical Name

HEMA CAS#

868-77-7 Percent

< 50%

OSHA PEL TWA: * Not Available

ACGIH TLV TWA: * Not Available

Hazardous: Yes

* All exposure limits are in milligram per cubic meter of air (mg/m3)

SECTION 3 : Physical And Chemical Characteristics

Physical State/Appearance:

Liquid

Color:

Colorless

pH:

1.0

Vapor Pressure:

mm Hg: Not Applicable

Vapor Density:

Air 1: Not Determined

Boiling Point:

Deg C: Not Applicable

Melting Point:

Deg C: Not Applicable

Solubility:

In water: Partially miscible

Specific Gravity:

H2O=1 g/cm3: Not Applicable

Odor Threshold:

Characteristic

FlashPoint:

> 100 deg C

Auto Ignition Temp:

Deg C: Not Applicable

Upper Flammable Explosive Limit:

% In Air: Not Applicable

Lower Flammable Explosive Limit:
% In Air: Not Applicable

SECTION 4 : Fire And Explosion Hazards

Fire:
Other Fire and Explosion Hazards: None
Flash Point:
> 100 deg C
Upper Flammable or Explosive Limit: % In Air: Not Applicable
Lower Flammable or Explosive Limit: % In Air: Not Applicable
Auto Ignition Temperature: Deg C: Not Applicable
Extinguishing Media:
Not required.
Hazardous Combustion Byproducts:
None

Solubility In water: Partially miscible

SECTION 5 : Health Hazards

Applies to All Ingredients:
Aggravation of Pre-Existing Conditions:
May cause allergic skin reaction.

Applies to All Ingredients:
Routes of Exposure:
Eyes, skin
Acute Health Effects:
Symptoms:
Phosphonic acid acrylate possesses a slight cytotoxic potential. May cause irritation to mucous membranes.
Skin Effects:
May cause sensitisation by skin contact.
Chronic Effects:
Symptoms:
Uncured material: Prolonged or repeated skin contact may cause allergic skin reactions in some individuals.
Carcinogenicity:
Potential Carcinogen: No
NTP: No
IARC: No
OSHA Reg.: No
Teratogenicity:
No
Embryo Toxicity:
No
Sensitization:
Yes
Reproductive Toxicity:
No
Other Toxicological Information:
Medical Conditions Generally: May cause allergic skin reaction.

SECTION 6 : Emergency And First Aid Procedures

Eye Contact:

Flush with plenty of water (10-15 Min.) Call a physician.

Skin Contact:

Wash thoroughly with water.

Inhalation:

Remove victim to fresh air.

Ingestion:

After ingestion call a physician immediately and show this safety data sheet. Do not induce vomiting. Give large amounts of water.

SECTION 7 : Reactivity Data

Chemical Stability:

No

If No...Under What Conditions: Not Applicable

Incompatibilities with Other Materials:

Substances: Yes

If So...Which Ones: Avoid excessive heat and sunlight.

Reactivity:

Under What Conditions: Avoid excessive heat and sunlight.

Hazardous Polymerization:

Avoid exposure to light.

SECTION 8 : Precautions For Safe Handling

Spill Cleanup Measures:

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

Storage:

Store at 2-8 deg C/36-46 deg F.

Waste Disposal:

Dispose of according to all local, state, provincial and federal regulations

Transportation Information:

Shipment: Not Applicable

SECTION 9 : Control Measures

Ventilation System:

Good general ventilation should be sufficient.

Hand Protection Description:

Gloves: Rubber gloves

Eye/Face Protection:

Safety goggles

Respiratory Protection:

Yes

Other Protective:

Avoid direct contact with eyes and skin.

SECTION 10 : Other Information

MSDS Revision Date:

December 5, 2003

MSDS Author:

Anderjeet Gulati

Phone: (716) 691-0010

Disclaimer:

The information and recommendations are taken from sources believed to be accurate; however, Ivoclar Vivadent, Inc. makes no warranty with respect to the accuracy of the information or the suitability of the recommendation and assumes no liability to any user thereof.


1 Identification

- **Product identifier**
- **Trade name:** **Multilink Primer A**
- **Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture** Self-curing and self-etching primer
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Ivoclar Vivadent Inc.
175 Pineview Drive, Amherst, N.Y. 14228
USA
Tel. +1 800 533 6825
Fax +1 716 691 2285

Ivoclar Vivadent Inc.
1-6600 Dixie Road
Mississauga, Ontario
L5T 2Y2
Canada
Phone: +1 905 670 8499
Fax: +1 905 670 3102
- **Information department:** Quality Assurance / Regulatory Affairs
- **Emergency telephone number:**
24 Hour Emergency Assistance:
Emergency-Call USA - Infotrac: 1-800-535-5053
Emergency-Call Canada - Canutec: 1-613-996-6666

General SDS Assistance:
US: 1-800-533-6825
Canada: 1-800-263-8182

2 Hazard(s) identification

- **Classification of the substance or mixture**
Eye Dam. 1 H318 Causes serious eye damage.
- **Label elements**
- **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**

GHS05
- **Signal word** Danger
- **Hazard-determining components of labeling:**
2,2'-[(4-methylphenyl)imino]bisethanol
- **Hazard statements**
Causes serious eye damage.
- **Precautionary statements**
Wear eye protection / face protection.

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If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

· **Additional information:**

Medical devices are exempt from the labeling provisions of GHS according to the Hazard Communication Standard (HCS).

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



Health = 1

Fire = 0

Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**



Health = 1

Fire = 0

Reactivity = 0

· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

3077-12-1	2,2'-[(4-methylphenyl)imino]bisethanol	5-<10%
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4 First-aid measures

· **Description of first aid measures**

· **General information:** No special measures required.

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

· **After skin contact:**

Rinse with water.

Generally the product does not irritate the skin.

· **After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· **After swallowing:**

Rinse out mouth and then drink plenty of water.

If symptoms persist consult doctor.

· **Information for doctor:**

· **Most important symptoms and effects, both acute and delayed** No further relevant information available.

· **Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

5 Fire-fighting measures

· **Extinguishing media**

· **Suitable extinguishing agents:**

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

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- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **Reference to other sections**
No dangerous substances are released.
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
Only adequately trained personnel should handle this product.
For use in dentistry only.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Store in a cool place.
Keep receptacle tightly sealed.
Protect from heat and direct sunlight.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:** Usual hygienic measures for dental practice.
- **Breathing equipment:** Not required.
- **Protection of hands:**
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

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- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:** Safety glasses

9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

Form:	Fluid
Color:	Colorless
Odor:	Characteristic
Odour threshold:	Not determined.

pH-value:	Not determined.
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- **Change in condition**

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.

Flash point:	Not applicable.
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Auto igniting:	Product is not selfigniting.
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Danger of explosion:	Product does not present an explosion hazard.
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- **Explosion limits:**

Lower:	Not determined.
Upper:	Not determined.

Vapor pressure:	Not determined.
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Density:	Not determined.
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Relative density	Not determined.
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Vapour density	Not determined.
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Evaporation rate	Not determined.
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- **Solubility in / Miscibility with**

Water:	Soluble.
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Partition coefficient (n-octanol/water):	Not determined.
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- **Viscosity:**

Dynamic:	Not determined.
Kinematic:	Not determined.

Other information	No further relevant information available.
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10 Stability and reactivity

- **Reactivity** No further relevant information available.

- **Chemical stability** Stable under normal handling and storage conditions.

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

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Trade name: **Multilink Primer A**

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- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** None under normal conditions of storage and use.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:** No further relevant information available.

- **Carcinogenic categories**

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
Take to an approved landfill or a waste incineration plant, under conditions approved by the local authority.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

US
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Trade name: **Multilink Primer A**

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14 Transport information

· UN-Number	
· DOT, ADR, ADN, IMDG, IATA	Void
· UN proper shipping name	
· DOT, ADR, ADN, IMDG, IATA	Void
· Transport hazard class(es)	
· DOT, ADR, ADN, IMDG, IATA	
· Class	Void
· Packing group	
· DOT, ADR, IMDG, IATA	Void
· Environmental hazards:	
· Marine pollutant:	No
· Special precautions for user	Not applicable.
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	Product is not classified as a dangerous good for transport (ADR, IMDG, IATA).
· UN "Model Regulation":	-

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture

· Sara

· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

· Proposition 65

· Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

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· **TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients is listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**



GHS05

· **Signal word Danger**

· **Hazard-determining components of labeling:**

2,2'-[(4-methylphenyl)imino]bisethanol

· **Hazard statements**

Causes serious eye damage.

· **Precautionary statements**

Wear eye protection / face protection.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

· **National regulations:**

· **Other regulations, limitations and prohibitive regulations**

The product is a medical device according to the 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.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Date of preparation / last revision** 05/07/2015 / 5

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

· *** Data compared to the previous version altered.**



1 Identification

- **Product identifier**
- **Trade name:** ***Multilink Primer B***
- **Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture** Self-curing and self-etching primer
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Ivoclar Vivadent Inc.
175 Pineview Drive, Amherst, N.Y. 14228
USA
Tel. +1 800 533 6825
Fax +1 716 691 2285

Ivoclar Vivadent Inc.
1-6600 Dixie Road
Mississauga, Ontario
L5T 2Y2
Canada
Phone: +1 905 670 8499
Fax: +1 905 670 3102
- **Information department:** Quality Assurance / Regulatory Affairs
- **Emergency telephone number:**
24 Hour Emergency Assistance:
Emergency-Call USA - Infotrac: 1-800-535-5053
Emergency-Call Canada - Canutec: 1-613-996-6666

General SDS Assistance:
US: 1-800-533-6825
Canada: 1-800-263-8182

2 Hazard(s) identification

- **Classification of the substance or mixture**
Skin Corr. 1B H314 Causes severe skin burns and eye damage.
Eye Dam. 1 H318 Causes serious eye damage.
Skin Sens. 1 H317 May cause an allergic skin reaction.
- **Label elements**
- **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**
 
GHS05 GHS07
- **Signal word** Danger
- **Hazard-determining components of labeling:**
phosphonic acid acrylate
2-hydroxyethyl methacrylate

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/07/2015

Version number 7

Reviewed on 03/11/2015

Trade name: **Multilink Primer B**

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· Hazard statements

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

· Precautionary statements

Wear protective gloves/protective clothing/eye protection/face protection.

Do not breathe dust/fume/gas/mist/vapors/spray.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If swallowed: Rinse mouth. Do NOT induce vomiting.

If skin irritation or rash occurs: Get medical advice/attention.

· Additional information:

Medical devices are exempt from the labeling provisions of GHS according to the Hazard Communication Standard (HCS).

· Classification system:

· NFPA ratings (scale 0 - 4)



Health = 3

Fire = 0

Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = 3

Fire = 0

Reactivity = 0

· Other hazards

· Results of PBT and vPvB assessment

· **PBT**: Not applicable.

· **vPvB**: Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

· **Description**: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:

223681-84-3	phosphonic acid acrylate	25-50%
868-77-9	2-hydroxyethyl methacrylate	25-50%

4 First-aid measures

· Description of first aid measures

· After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

· After skin contact: Rinse with water.

· After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· After swallowing:

Rinse out mouth and then drink plenty of water.

If symptoms persist consult doctor.

· Information for doctor:

· **Most important symptoms and effects, both acute and delayed** No further relevant information available.

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- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.
- **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Only adequately trained personnel should handle this product.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Store in a cool place.
Keep receptacle tightly sealed.
Protect from heat and direct sunlight.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists that were valid during the creation were used as basis.

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- **Exposure controls**

- **Personal protective equipment:**

- **General protective and hygienic measures:**

Usual hygienic measures for dental practice.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

- **Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:** Safety glasses

9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

Form: Fluid

Color: Colorless

- **Odor:** Characteristic

- **Odour threshold:** Not determined.

- **pH-value:** Not determined.

- **Change in condition**

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: Undetermined.

- **Flash point:** Not applicable.

- **Auto igniting:** Product is not selfigniting.

- **Danger of explosion:** Product does not present an explosion hazard.

- **Explosion limits:**

Lower: Not determined.

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Upper:	Not determined.
· Vapor pressure:	Not determined.
· Density at 20 °C (68 °F):	1.04 g/cm ³ (8.679 lbs/gal)
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with Water:	Partly miscible.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Other information	No further relevant information available.

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability** Stable under normal handling and storage conditions.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** None under normal conditions of storage and use.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:** No further relevant information available.

· **Carcinogenic categories**

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.

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· **Additional ecological information:**

· **General notes:**

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **Other adverse effects** No further relevant information available.

13 Disposal considerations

· **Waste treatment methods**

· **Recommendation:**

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

· **Uncleaned packaging:**

· **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· **UN-Number**

· **DOT, ADR, ADN, IMDG, IATA** Void

· **UN proper shipping name**

· **DOT, ADR, ADN, IMDG, IATA** Void

· **Transport hazard class(es)**

· **DOT, ADR, ADN, IMDG, IATA**

· **Class** Void

· **Packing group**

· **DOT, ADR, IMDG, IATA** Void

· **Environmental hazards:**

· **Marine pollutant:** No

· **Special precautions for user** Not applicable.

· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

· **Transport/Additional information:**

Product is not classified as a dangerous good for transport (ADR, IMDG, IATA).

· **UN "Model Regulation":**

-

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **Sara**

· **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

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· Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

· Proposition 65
· Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenic categories
· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms


GHS05 GHS07

· Signal word Danger
· Hazard-determining components of labeling:

phosphonic acid acrylate

2-hydroxyethyl methacrylate

· Hazard statements

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

· Precautionary statements

Wear protective gloves/protective clothing/eye protection/face protection.

Do not breathe dust/fume/gas/mist/vapors/spray.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

If swallowed: Rinse mouth. Do NOT induce vomiting.

If skin irritation or rash occurs: Get medical advice/attention.

· National regulations:
· Other regulations, limitations and prohibitive regulations

The product is a medical device according to the Directive 93/42/EEC.

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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.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

*

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Date of preparation / last revision** 05/07/2015 / 6

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

· *** Data compared to the previous version altered.**

US