

Safety Data Sheet**ProVeneer Bond**

Date of revision: 01.02.16

Rev. 1 (EU acc. To ISO 11014)

SECTION 1: Identification**1.1 Product Identifier:** Silmet Universal Dental Adhesive**Trade Name:** ProVeneer Bond**1.2 Relevant identified uses of the substances or mixture****Product Use:**

Indications: Intended for the use as a dental restorative material.

Limitations on Use: For use only by dental professionals

1.3 Details of the supplier of the safety data sheet**Manufacturer:** Silmet Ltd**Address:** 12 Hassadna St. Industrial Park. Or Yehuda 6022011. Israel**Telephone:** + 972 3 7353000 (Use for emergency also)**Fax:** +972 3 5331581 **e-mail:** info@silmet.co.il**SECTION 2: Composition/Information on ingredients**

Hazardous Ingredients	CAS#	Hazard Identification & Risk Phrases
Acetone	67-64-1	F, Xi, R11/36/66/67
Urethandimethacrylate	72869-86-4	Xi, R36/37/38
Triethyleneglycoldimethacrylate	109-16-0	Xi
2-Hydroxyethylmethacrylate	868-77-9	Xi, R36/38-43
Multifunctional dimethacrylates	24448-20-2	Xi, R36/37/38
4-methacryloxyethyltrimellitic anhydrid	70293-55-9	Xn; R22-36/38-43
Photoinitiators	10287-53-3	Xi, R36/37/38
Ethanol	64-17-5	F, R11

Additional information: For the wording of the listed risk phrases refer to section 16.

Safety Data Sheet**ProVeneer Bond**

Date of revision: 01.02.16

Rev. 1 (EU acc. To ISO 11014)

SECTION 3: Hazards Identification

Xi Irritant; Flammable.

Acute Health Hazards: May cause eye, respiratory and skin irritation.Signs and Symptoms of Exposure: High concentrations can cause eye and respiratory irritation. Prolonged skin exposure can cause dryness.Primary Routes of Exposure: Inhalation, skin contact, eye contact.Carcinogenicity: NTP – no, OSHA – no, IARC – no.**SECTION 4: First Aid Measures**

4.1 First Aid Procedures

If irritation occurs, take victim to open air.

In case of skin contact: wash with soap and water.

In case of eye contact: Flush with large quantities of water for 15 minutes.

Consult a physician.

In case of ingestion: Consult a physician.

SECTION 5: Fire Fighting Measures

Flash Point: N/E

Extinguishing Media: Carbon dioxide, water spray, dry chemical.Special Fire Fighting Procedures: Avoid a direct jet of water.Unusual Fire and Explosion Hazards: None.**SECTION 6: Accidental Release Measures**Environmental Precautions: Avoid seepage into sewers and water supplies.Clean-Up Procedure: Contain spill and pick up material with a suitable absorbent material.

Place absorbent into a container for later disposal. Clean spill area with detergent and water.

SECTION 7: Handling and Storage

Handling: No special measures necessary if handled according to instructions.

Storage: Keep container tightly closed when not in use. Store in a cool, dry location. Keep material in original packaging.

SECTION 8: Exposure controls/Personal Protection

Exposure Controls: Use only in well ventilated areas.

Hand and Skin Protection: Avoid unnecessary skin contact. Wear latex gloves when handling.

Hygiene Measures: Remove spilled material from skin and clothing. Do not eat or drink when handling this material.

Safety Data Sheet

ProVeneer Bond

Date of revision: 01.02.16

Rev. 1 (EU acc. To ISO 11014)

SECTION 9: Physical and Chemical Properties

Appearance: Light yellow liquid.

Odour: Specific odour.

Boiling Point: N/A

Flash Point: N/E

(Ethanol Solution) $\geq 23^{\circ}\text{C} - \leq 60$

Solubility in Water: Insoluble

Vapor Density (Air = 1): N/E

Vapor Pressure (mm Hg): N/E

SECTION 10: Stability and Reactivity

Stability:	Stable if stored and handled as instructed.
Conditions to avoid	Heat, UV - light
Incompatibility:	Free radicals, reducing agents, heavy metal ions
Hazardous Polymerization:	May occur
Hazardous Decomposition:	Carbon dioxide, carbon monoxide acrylic decomposition products, depending on conditions of heating and burning.

SECTION 11: Toxicological Information

Acute oral toxicity:	LD50 (rat) > 500 mg/kg
Irritation of Skin:	Dryness and Irritation possible upon prolonged exposure.
Allergic Effects:	Methacrylate sensitive individuals may exhibit an allergic reaction.

SECTION 12: Ecological Information

Do not discharge into sewers or water supplies.
 Environmental persistence and degradability: No data available.
 Ecotoxicity: No data available.

SECTION 13: Disposable considerations

May be disposed of in landfill or incinerator In accordance with local, state and federal regulations.

SECTION 14: Transport Information

14.1 Transport at land	ADR	3	RID	3
	UN Number	1170	Kemler Number	---
	Packing Group	III		
14.2 Transport at sea	Proper shipping name	Ethanol Solution		
	ADNR	3	IMDG	3
	UN Number	1170		
	EMS	F-E, S-D	MFAG	
	Packing Group	III		
	Proper shipping name	Ethanol Solution,		

Safety Data Sheet
ProVeneer Bond

Date of revision: 01.02.16 Rev. 1 (EU acc. To ISO 11014)

14.3 Air transport	ICAO / IATA-DGR	---
	UN Number	1170
	Proper shipping name	Ethanol Solution,
	Subsidiary Risk	---
	Labels	Ethanol Solution,
	Packing Group	III

U.S. DOT Shipping Name: Ethanol Solution

U.S. DOT Hazard Class: 3

Number: UN1170

U.S. Dot Packing Group: III

Other: Class 3 Flammable liquids.

SECTION 15: Regulatory Information

This product requires classification according to the criteria of EC.

The product is a medical device according to the EC-directive 93/42.

15.1 UN Number	1170
15.2 National regulations	
15.3 EU number	

15.4 Hazard symbols



15.5 Hazard designation

Xi: Irritant. F: Highly Flammable. Contains Ethyl Alcohol, HEMA, 4-Methacryloxyethyltrimellitic anhydride, Acetone

15.6 Risk phrases

R: 11, 36, 37/38, 43
11 Highly flammable.
36 Irritating to eyes.
37/38 Irritating to respiratory system and skin.
43 May cause sensitization by skin contact.

15.7 Safety phrases

S: 2, 9, 16, 23, 26, 28, 24/25, 37/39
2 Keep out of the reach of children.
9 Keep container in a well-ventilated place.
16 Keep away from sources of ignition - No smoking.
23 Do not breathe vapour.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advise.
28 After contact with skin, wash immediately with plenty of water and soap.
24/25 Avoid contact with skin and eyes.
37/39 Wear suitable gloves and eye/face protection.

Safety Data Sheet**ProVeneer Bond****Date of revision: 01.02.16****Rev. 1 (EU acc. To ISO 11014)**

U.S. – O.S.H.A. Status: This material is Xi: Irritant. F: Flammable under the criteria the U.S. Federal Hazard Communication Standard.

SECTION 16: Other Information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall establish a legally valid contractual relationship.

Relevant phrases

- 11 Highly flammable.
- 22 Harmful if swallowed.
- 36 Irritating to eyes.
- 37/38 Irritating to respiratory system and skin.
- 43 May cause sensitisation by skin contact.
- Xn Harmful.
- Xi Irritant.

This information is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data, or the results to be obtained from use thereof. In no event will the manufacturer or distributor be responsible for damages of any nature whatsoever resulting from the use of, or reliance upon this information. General properties described herein are to be regarded as guides and are not guaranteed for all samples.