

Silmet Ltd.
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ISO 9002

ProFil™ Universal Dental Restorative Material Material Safety Data Sheet

In accordance with communitary directive 2001/58/EC

SECTION 1: Identification of Product and Company

Product name: ProFil Micro Hybrid Composite Resin Cement
Manufacturer's name: Silmet Ltd.
Address: 12 Hassadna St. Industrial Park
City/Country: Or-Yehuda Israel 60200
Emergency Telephone: 972 – 3 - 5331474
Issue Date: 26/6/2005

Product Use:

Limitations on Use: For use only by dental professionals
Specific Use: Dental Restorative

SECTION 2: Composition/Information on Ingredients

Ingredient	% by weight
Bariumaluminosilicate	60-70%
Fumed silica	5-15%
Bis-GMA	5-15%
TEGDMA	3-7%
Dimethacrylate	1-5%
Colorant	0.001-0.01%

SECTION 3: Hazards Identification

3.1 Emergency Overview

Specific Physical Form: Paste
Odor, Color, Grade: Slight acrylate odor, various shades
General Physical Form: Solid
Immediate health, physical & environmental hazards May cause allergic skin reaction

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3.2 Health Hazard

Uncured resin may cause skin and/or eye irritation

Eye Contact:	Moderate eye irritation. Symptoms may include redness, swelling, pain, tearing and blurred vision
Skin Contact	Prolonged or repeated exposure may cause allergic or moderate skin irritation. Symptoms may include redness, swelling, itching blistering and dryness
Inhalation	Prolonged or repeated exposure may cause Upper respiratory tract irritation. Symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, nose and throat pain
Ingestion	No health effects are expected

SECTION 4: First Aid Measures

4.1 First Aid Procedures

Immediately flush contaminated eye/skin area with large amounts of water. Seek medical attention.
Inhalation: Remove person to fresh air, seek medical attention if symptoms persist.
If large ingestion, do not induce vomiting, seek medical attention.

SECTION 5: Fire Fighting Measures

5.1 Flammable properties

Flash point (F)	N/D
Upper explosion limit	N/D
Lower explosion limit	N/D

Unusual fire and explosion hazard can cause polymerisation with rapid release of energy

5.2 Fire extinguishing measures

Use fire extinguishers with class B extinguishing agents e.g dry chemical, carbon dioxide

SECTION 6: Accidental Release Measures

In case the material is released or spilled, clean up with inert absorbent material and dispose of in an approved manner.

Ventilate the area with fresh air.

Dispose of according to local or state regulations.

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SECTION 7: Handling and Storage

Handling Precautions	Keep away from sources of ignition
Precautions in case of fire and Explosion	Not determined
Storage conditions	Store in a cool, dry place away from heat, light and ignition sources. Refrigerate when not in use
Suggested containers	Original containers provided by Manufacturer
Indication for combined storage	Avoid contact with reducing and oxidizing agents, peroxides and amines

SECTION 8: exposure controls/Personal Protection

Precautionary Measures	Local Exhaust Ventilation: Good general ventilation should be sufficient to control airborne levels of vapor released by uncured material. Special Ventilation: None Required Mechanical Ventilation: Good general ventilation recommended Other Ventilation: None required
Limits	TWA: Not determined PEL: Not determined
Respiratory Protection	Avoid prolonged or excessive breathing of vapor of uncured material
Hands protection	Rubber gloves recommended when contacting uncured materials
Eye & Skin protection	Safety glasses with side shields and use of gloves is recommended
Hygienic practices	Normal safe practices

SECTION 9: Physical and Chemical Properties

Boiling Point	N/A	Evaporation rate	N/A
Vapor pressure	N/A	Melting point	N/A
Specific Gravity	> 1	pH	N/A
Solubility in water	nil	Appearance & Odor	Slightly acrylic odor

SECTION 10: Stability and Reactivity

Stability:	Stable if stored as instructed.
Conditions to avoid	Heat, light, aging and contamination
Incompatibility:	Peroxide and Amines, reducing and oxidizing agents
Hazardous Polymerization:	Will not occur
Hazardous Decomposition:	None known

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SECTION 11: Toxicological Information

Carcinogenicity/Teratogenicity: No

Effects and Hazards of Overexposure (Acute and Chronic)

Effects and hazards of eye contact: May cause irritation and damage if not removed promptly
 Effects and hazards of skin contact: Prolonged or repeated exposure to uncured material may cause irritation or skin rash especially in sensitive individuals
 Effects and hazards of Inhalation: Prolonged or excessive inhalation may cause respiratory tract irritation
 Effects and hazards of Ingestion: Uncured material may be harmful or fatal if swallowed
 Effects for prolonged exposure: Not applicable

SECTION 12: Ecological Information

There is no specific information on the product. Use according to good working practices, avoid releasing of the product into the environment.

SECTION 13: Disposable considerations

Unpolymerized (uncured) material may be hazardous waste. Incinerate uncured material and dispose in accordance with local regulations.

SECTION 14: Transport Information

Sea Transportation

IMCO Number: Not applicable
 UN Number: Not applicable
 Substance(s) determining hazard: None

Air Transportation

ICAO/IATA Class: Not applicable
 Substance(s) determining hazard: None

Transportation by Road/Railway

RID/ADR Class	N/A	Item Number	N/A	Hazard Identification Number	N/A	Substance Identification Number	N/A	Hazard Label	N/A
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SECTION 15: Regulatory Information

Classification in accordance with EC Directives

Hazard Identification Symbol	Xn
R Sentences	
22	Harmful if swallowed
36/37/38	Irritating to eyes, respiratory system and skin
S Sentences	
36	Wear suitable protective clothing
Ingredients determining the label	Uncured Methacrylate Ester Monomers

SECTION 16: Other Information

None

CAUTION: PRODUCT FOR PROFESSIONAL USE

The information on this safety sheet is based on presently available data and to our best knowledge for the correct handling of the product under normal conditions. Any use of this product in any way not indicated on this sheet or use of this product together with any other process/procedure will be exclusively under the user's responsibility.