

MSDS – ProLink

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product name: ProLink
Manufacturer: Silmet Ltd.
Address: 12 Hassadna St.
 Industrial Zone, Or Yehuda
 60200 Israel
Telephone: + 972 3 5331474
Issue Date: 05/22/10
Product use:
Intended Use: Dental product
Limitations on use: For use by dental professionals
Specific Use: Dental adhesive

SECTION 2: INGREDIENTS

Ingredient	C.A.S. No.	% by Wt
Triethylene Glycol Dimethacrylate (TEGDMA)	109-16-0	14.0
Urethanedimethacrylate	72869-86-4	10.0
2-Hydroxyethylmethacrylate	868-77-9	10.0
Camphorquinone	10373-78-1	1.0
Ethanol	64-17-5	9.0
Acetone	67-64-1	40

SECTION 3: HAZARDS IDENTIFICATION

3.1 Emergency Overview

Specific Physical Form: Liquid

Odor, Color, Grade: Clear, slight acrylate color

General Physical Form: liquid

Immediate health, physical and environmental hazards: Flammable liquid and vapor. Closed containers exposed to heat from fire may build pressure and explode. Vapors may travel long distances along the ground or floor to an ignition source and flash back. May cause allergic skin reaction. May cause target organ effects.

3.2 Potential Health Effects

Eye Contact:

Moderate Eye Irritation: Signs/symptoms may include redness, swelling, pain, tearing and blurred or hazy vision.

Skin Contact:

Moderate Skin Irritation: Signs/symptoms may include localized redness, swelling, itching and dryness.

Allergic Skin Reaction (non photo induced): Signs/symptoms may include redness, swelling, blistering and itching

Inhalation:

Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, nose and throat pain.

Ingestion:

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

May be absorbed following ingestion and cause target organ effects.

NOTE: This product contains ethanol. In IARC published Monograph No. 44, entitled, "Alcohol Drinking", the carcinogenicity of ethanol was determined based on chronic exposure to ethanol through human consumption of alcoholic beverages. This is not an expected effect during the foreseeable use of this product.

SECTION 4: FIRST AID MEASURES

The following first aid recommendations are based on assumption that appropriate personal and industrial hygiene practices are followed.

Eye Contact: Flush eyes with large amounts of water. If signs/symptoms persist, get medical attention.

Skin contact: Remove contaminated clothing and shoes. Immediately flush skin with large amounts of water. Get medical attention. Wash contaminated clothing and clean shoes before reuse.

Inhalation: Remove person to fresh air. If signs/symptoms persist, get medical attention.

If swallowed: Do not induce vomiting unless instructed to do so by medical personnel.

Give victim 2 glasses of water. Never give anything by mouth to unconscious person. Get medical attention.

SECTION 5: FIRE FIGHTING MEASURES

5.1 Flammable properties

Autoignition temperature	Not data available
Flash point	Not applicable
Flammable Limits – LEL	Not applicable
Flammable Limits – UEL	Not applicable

5.2 Extinguishing media

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

5.3 Protection of fire fighters

Special Fire Fighting Procedures: Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture.

Wear full protective equipment (Bunker Gear) and a self contained breathing apparatus (SCBA)

Unusual Fire and Explosion Hazards: Flammable liquid and vapor. Closed containers exposed to heat from fire may build pressure and explode. Vapors may travel long distances along the ground or floor to an ignition source and flash back.

Note: See STABILITY AND REACTIVITY (SECTION 10) for hazardous combustion and thermal decomposition information.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Accidental Release Measures:

Refer to other sections of this MSDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment. Remove all ignition sources such as flames, smoking materials, and electrical spark sources. Use only non-sparking tools. Ventilate the area with fresh air. Cover with absorbent material. Remember, adding an absorbent material does not remove a toxic, corrosivity or flammability hazard. Collect as much of the spilled material as possible. Clean up residue.

Collect the resulting residue containing solution. Place in a closed container approved for transportation by appropriate authorities. Dispose of collected material as soon as possible.

In the event of a release of this material, the user should determine if the release qualifies as reportable according to local, state and federal regulation.

SECTION 7: HANDLING AND STORAGE

7.1 Handling

Keep away from heat, sparks, open flame, pilot lights and other sources of ignition. A no-touch technique is recommended. If skin contact occurs, wash skin with soap and water. Acrylates may penetrate commonly-used gloves. If product contacts glove, remove and discard glove, wash hands immediately with soap and water and then re-glove. Avoid eye contact. Avoid skin contact.

7.2 Storage

Store away from heat. Store out of direct sunlight. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Engineering controls

Not applicable.

8.2 Personal Protective Equipment (PPE)

8.2.1 Eye/Face Protection

Avoid eye contact.

The following eye protection(s) are recommended: Safety Glasses with side shields.

8.2.2 Skin Protection

Avoid skin contact. See Section 7.1 for additional information on skin protection.

8.2.3 Respiratory Protection

Under normal use conditions, airborne exposures are not expected to be significant enough to require respiratory protection.

8.2.4 Prevention of Swallowing

Do not ingest.

8.3 Exposure Guidelines

Ingredient	Authority	Type	Limit	Additional Information
Ethanol	ACGIH	TWA	1000ppm	Table A4
Ethanol	OSHA	TWA	1000ppm	Table Z-1

SOURCE OF EXPOSURE LIMIT DATA:

ACGIH: American Conference of Governmental Industrial Hygienists
 CMRG: Chemical Manufacturer Recommended Guideline
 OSHA: Occupational Safety and Health Administration
 AIHA: American Industrial Hygiene Association Workplace Environmental Exposure Level (WEEL)

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Specific Physical Form:	Liquid
Odor, Color, Grade:	Clear ,slight acrylate odor,
General Physical Form:	Liquid
Autoignition temperature	No Data Available
Flash Point	70°F
Flammable Limits - LEL	No Data Available
Flammable Limits - UEL	No Data Available
Boiling point	78°C
Density	No Data Available
Vapor Density	No Data Available
Vapor Pressure	No Data Available
Specific Gravity	1.003 [Ref Std: WATER=1]
pH	5
Melting point	<i>Not Applicable</i>
Solubility in Water	No data available
Evaporation rate	No Data Available
Volatile Organic Compounds	No Data Available
Percent volatile	No Data Available
Viscosity	15 centistoke

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable.

Materials and Conditions to Avoid: Sparks and/or flames: Heat

Hazardous Polymerization: Hazardous polymerization will not occur.

Hazardous Decomposition or By-Products

Substance	Condition
Carbon monoxide	During Combustion
Carbon dioxide	During Combustion

SECTION 11: TOXICOLOGICAL INFORMATION

Please contact the address listed on the 1st page of the MSDS for the Toxicological information on this material and/or its components

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: Not determined.

CHEMICAL FATE INFORMATION: Not determined.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Method: Incinerate in a permitted hazardous waste incinerator. As a disposal alternative, dispose of waste product in a permitted hazardous waste facility.

EPA Hazardous Waste Number (RCRA): D001 (Ignitable)

Since regulations vary, consult applicable regulations or authorities before disposal.

SECTION 14: TRANSPORTATION INFORMATION

Please contact the number listed on the 1st page of this MSDS for Transport Information of this material

SECTION 15: REGULATORY INFORMATION

US FEDERAL REGULATIONS

311/312 Hazard Categories:

Fire Hazard – Yes Pressure Hazard - No Reactivity Hazard - No Immediate Hazard - Yes
Delayed Hazard - No

CHEMICAL INVENTORIES

All applicable chemical ingredients in this material are listed on the European Inventory of Existing Chemical Substances (EINECS), or are exempt polymers whose monomers are listed on EINECS.

This material contains one or more substances not listed on the TSCA Inventory.

Commercial use of this material is regulated by the FDA

This MSDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SECTION 16: OTHER INFORMATION

NFPA Hazard Classification

Health: 1 Flammability: 2 Reactivity: 0 Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.