



Silmet GICs - ProGlass Plus Liquid & Powder(Classification according to Directive 790/2009/EC)Date of issue: 07.11.13Replaces version of : 30.05.2010Rev. 2

# **ProGlass Plus –Liquid**

# SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Manufacturer: Silmet Ltd. Address: 12 Hassadna St. Industrial Zone, Or Yehuda 60200 Israel Telephone: + 972 3 5331474

Common name: ProGlass Plus – Liquid Chemical name: N.A

#### **Product use:**

Intended Use:Dental productLimitations on use:For use by dental professionalsSpecific Use:Reinforced glass ionomer cement – liquid component

The information below is provided with regard to the toxicity and hazards of the pure components present in this portion of the unmixed powder/liquid system.

# **SECTION 2: INGREDIENTS**

	Component		C.A	.S	Exposi	ire limits	LD50/L	%	-	
	Distilled water			7732-18-15 N.E		N.E			20-30	
	Polyacrylic acid			9003-01-4 TWA		= 10ppm	LD50=2	500mg/kg	20-30	
				(ACGII				)		
							LC50=N	LC50=N.E		
	2-Hydroxyethylmethacrylate			868-77-9 N.E			LD50=5	5888mg/kg	25-35	
							(oral rat)	)		
							LC50=N	LC50=N.E .		
	Urethanedimethacrylate			72869-86-4 N.E			N.E		5-10	
SECT	ION 3: HAZARDS ID	ENTIFICA	TION							
		Yes	No	NE	NA	NTP	IARC	OSHA	Other	
Muta	agenic affects		Х							
	togenic affects		Х							
Repr	Reproductive toxin     X									
Carcinogenicity X										
Sensitizer     X			Х							
Routes of entry: Inhalation X Skin X Ingestion										
Health hazard(acute & chronic): Acidic solution (pH=1.90), care should be taken to avoid contact with skin or eyes.										
SECTION 4: FIRST AID MEASURES										
After skin contact: Immediately wash with water and soap and rinse thoroughly.										
After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, seek medical assistance										
After swallowing: If symptoms persist, seek medical assistance									_	
SECTION 5: FIRE FIGHTING MEASURES										
	ash point Not flammable					Hazardous combustion products: Emits acrid				
Flammable Limits N.A					smoke when heated beyond boiling point.					
Extinguishing media: Alcohol foam					<b>Special Fire Fighting Procedures</b> : Full protective clothing and self contained breathing apparatus.					
Unusu	Unusual fire & Exposure hazards None						na self contair	ied breathing a	pparatus.	





5	
Silmet GICs – ProGlass Plus Liquid & Powder	(Classification according to Directive 790/2009/EC)

 
 Date of issue: 07.11.13
 Replaces version of : 30.05.2010

 SECTION 6: ACCIDENTAL RELEASE MEASURES
 Rev. 2

In case of release or spill: Absorb with liquid binding material (sand, diatomite, acid binders, universal binders, sawdust).						
Ensure adequate ventilation						
Do not allow to enter sewers/ surface or ground water						
Storage, handling and special precautions: Store in a cool dry place in tightly closed container.						
SECTION 7: HANDLING AND STORAGE						
Ensure good ventilation/exhaustion at the workplace.						
Prevent formation of aerosols.						
Store in a cool dry place in tightly closed container.						
SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION						
8.1 Engineering controls						
Use in a well-ventilated area.						
8.2 Personal Protective Equipment (PPE)						
Eye/Face Protection						
Avoid eye contact.						
The following eye protection(s) are recommended: Safety Glasses with side shields.						
Prevention of Swallowing						
Do not ingest. Wash hands after handling and before eating						
General protective and hygienic measures:						
Keep away from foodstuffs, beverages and feed.						
Immediately remove all soiled and contaminated clothing						
Wash hands before breaks and at the end of work.						
Avoid contact with the eyes and skin.						
SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES     Appearance & odour   Colorless, slightly viscous   and odorless liquid						
Appearance & odourColorless, slightly viscousand odorless liquidSpecific gravity (H2O=1)1.18						
<b>Specific gravity</b> (H <sub>2</sub> O=1) 1.18 <b>Melting point/Melting range:</b> Undetermined.						
Boiling point/Boiling range: Undetermined.						
Flash point: Not applicable.						
Self-igniting: Product is not selfigniting.						
<b>Danger of explosion:</b> Product does not present an explosion hazard.						
<b>Density:</b> Not determined						
SECTION 10: STABILITY AND REACTIVITY						
Stability : X Stable Unstable						
Polymerization: X Will Not Occur Will Occur						
Conditions to avoid: High heat						
Incomatibility (Materials to Avoid): Alkali will inactivate product						
Hazardous decomposition or by-products: N.E.						
SECTION 11: TOXILOGICAL INFORMATION						
Please contact the address listed on the 1 <sup>st</sup> page of the MSDS for the Toxilogical information on this material and/or its						
components						
SECTION 12: ECOLOGICAL INFORMATION						
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage						





Silmet GICs – ProGlass Plus Liquid & Powder(Classification according to Directive 790/2009/EC)Date of issue: 07.11.13Replaces version of : 30.05.2010Rev. 2

#### SECTION 13: DISPOSAL CONSIDERATIONS

Do not dispose together with household garbage. Do not allow product to reach sewage system.

Recommendation: Consult applicable regulations or authorities before disposal.

#### SECTION 14: TRANSPORTATION INFORMATION

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

#### SECTION 15: REGULATORY INFORMATION

This product is classified as a medical device under US and EU regulations. The product has been marked in accordance with EU Directives and has been reviewed by the US Food and Drug Administration.

US FEDERAL REGULATIONS

#### 311/312 Hazard Categories:

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

#### **CHEMICAL INVENTORIES**

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

# 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.





Silmet GICs - ProGlass Plus Liquid & Powder(Classification according to Directive 790/2009/EC)Date of issue: 07.11.13Replaces version of : 30.05.2010Rev. 2

# **ProGlass Plus – Powder**

# SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Manufacturer: Silmet Ltd. Address: 12 Hassadna St. Industrial Zone, Or Yehuda 60200 Israel Telephone: + 972 3 5331474

Common name: ProGlass Plus – Powder Chemical name: N.A

#### **Product use:**

Intended Use:	Dental product
Limitations on use:	For use by dental professionals
Specific Use:	Reinforced glass ionomer cement – powder component

The information below is provided with regard to the toxicity and hazards of the pure components present in this portion of the unmixed powder/liquid system.

Component		C.A.S	Exposu	Exposure limits		LD50/LC50			
Alumino-silicate glass		Not listed	TLV =1	$TLV = 10 mg/m^3$		N.E			
			PEL = 1	$PEL = 15 mg/m^3$		N.E			
			(ACGIH)						
ECTION 3: HAZARDS IDE	ENTIFI	CATION							
									1
	Yes	No	NE	NA	NTP	IARC	0	SHA	Other
Mutagenic affects		X							
<b>Feratogenic affects</b>		X							
Reproductive toxin		Х							
Carcinogenicity		X							
Sensitizer		X							
Routes of entry:   X   Inhalation   Skin   Ingestion     Health hazard(acute & chronic): Contains silica glass which is considered a hazard by inhalation. IARC has classified it as a probable carcinogenic for humans. Dusts of silica glass is also a known cause of silicosis, a non-cancerous lung disease.     Signs & symptoms of overexposure: Irritation and soreness in throat and nose.   Conditions generally aggravated by exposure: May aggravate preexisting upper respiratory and lung disease.     Emergency first aid procedures:   Inhalation: Remove to fresh air, drink water to clear throat and blow nose to evacuate dust.     Ingestion: Do not induce vomiting – give large volumes of water. Seek medical attention.   Skin: Wash with soap and water. If irritation develops seek medical attention.     Eyes: Flush with water for 15 minutes . If irritation develops or persists seek medical attention.									

Page 4 of 6





<b>SILMEI</b>									
Safety Data Sheet	<sup>130</sup> 13485:20 <sup>13</sup> <sup>130</sup> 9001:20 <sup>13</sup> 00								
Silmet GICs – ProGlass Plus Liquid & Powder (Classification	n according to Directive 790/2009/EC)								
Date of issue: 07.11.13 Replaces version of : 30.05.2010	Rev. 2								
SECTION 4: FIRST AID MEASURES	11								
After skin contact: Immediately wash with water and soap and rinse thorou After eye contact: Rinse opened eye for several minutes under running water	gnly. ar If symptoms persist, seek medical assistance.								
After swallowing: If symptoms persist, seek medical assistance	in symptoms persist, seek medical assistance								
SECTION 5: FIRE FIGHTING MEASURES									
Flash point     Not flammable	Hazardous combustion products: Emits acrid								
Flammable Limits N.A Smoke when heated beyond boiling point.									
Extinguishing media: Alcohol foam Special Fire Fighting Procedures: Full									
Unusual fire & Exposure hazards None	clothing and self contained breathing apparatus.								
SECTION 6: ACCIDENTAL RELEASE MEASURES									
In case of release or spill: Absorb with liquid binding material (sand, diaton	nite, acid binders, universal binders, sawdust).								
Ensure adequate ventilation									
Do not allow to enter sewers/ surface or ground water									
Storage, handling and special precautions: Store in a cool dry place in tigh	tly closed container.								
SECTION 7: HANDLING AND STORAGE	·								
Ensure good ventilation/exhaustion at the workplace.									
Prevent formation of aerosols.									
Store in a cool dry place in tightly closed container.									
SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION									
<b>8.1 Engineering controls</b> Use in a well-ventilated area.									
8.2 Personal Protective Equipment (PPE)									
Eye/Face Protection									
Avoid eye contact.									
The following eye protection(s) are recommended: Safety Glasses with side s	hields.								
Prevention of Swallowing									
Do not ingest. Wash hands after handling and before eating									
General protective and hygienic measures:									
Keep away from foodstuffs, beverages and feed.									
Immediately remove all soiled and contaminated clothing									
Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.									
SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES									
Boiling Point     N.E	<b>Specific gravity</b> (H <sub>2</sub> O=1) 2.56								
Vapour pressure N.A	Melting point 1,350°C								
Vapour density N.A	<b>Evaporation rate</b> N.A								
Solubility in water Insoluble	Odor threshold N.E								
Appearance & odour Very fine white powder	Coefficient of oil/water distribution N.E								
10: STABILITY AND REACTIVITY									
Stability : X Stable Unstable									
Polymerization: X Will Not Occur Will Occur									
Conditions to avoid: High heat									
Incompatibility (Materials to Avoid): Alkali will inactivate product.									
Hazardous decomposition or by-products: N.E.									
SECTION 11: TOXILOGICAL INFORMATION									

Silmet Ltd. 12 Hassadna St. Industrial Park, Or-Yehuda 60200, Israel. Tel: 972-3-7353000 • Fax: 972-3-5331581 • info@silmet.co.il • www.silmetdental.com





Silmet GICs - ProGlass Plus Liquid & Powder(Classification according to Directive 790/2009/EC)Date of issue: 07.11.13Replaces version of : 30.05.2010Rev. 2

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

#### **SECTION 12: ECOLOGICAL INFORMATION**

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

#### SECTION 13: DISPOSAL CONSIDERATIONS

Do not dispose together with household garbage. Do not allow product to reach sewage system.

Recommendation: Consult applicable regulations or authorities before disposal.

# SECTION 14: TRANSPORTATION INFORMATION

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

#### SECTION 15: REGULATORY INFORMATION

This product is classified as a medical device under US and EU regulations. The product has been marked in accordance with EU Directives and has been reviewed by the US Food and Drug Administration.

# US FEDERAL REGULATIONS

# 311/312 Hazard Categories:

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

CHEMICAL INVENTORIES

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

#### **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.