

MATERIAL SAFETY DATA SHEET

SECTION I - Product/ Company Identification

Product Trade Name: *Alpha-Cem™ Dual Cure Luting Cement - Base*
Part (Item) Numbers: Base: 308-0100, 308-0101
Manufacturer: DENTAL TECHNOLOGIES, INC.
Address: 6901 N. HAMLIN AVENUE
City, State, Zip: LINCOLNWOOD, IL. 60712 U.S.A.
Emergency Telephone Number: (800) 424-9300 / (703) 527-3887 (Chemtrec)
Information Telephone Number: (800) 835-0885 / (847) 677-5500
Date Revised: 10-Apr-07 Rev. 000

SECTION II - Hazardous Ingredients/Identity Information

Hazardous Components:	CAS NO.	Percent	EC Haz Code	Risk Code
Barium-aluminum-boro-silicate	[65997-18-4]	30 - 40	Xi	
Bisphenol diglycidylmethacrylate (Bis-GMA)	[1565-94-2]	25 - 35	Xn	
Blend of multifunctional methacrylates	NE	10 - 20	Xn	
Ionomer glass	NE	10-20	Xn	
Photoinitiator	[10373-78-1]	< 1		

SECTION III - Hazards Identification

HAZARD CLASSIFICATION Harmful

SECTION IV - First Aid Measures

Skin: Wash skin with soap and water. If irritation persists seek medical advice.
Ingestion: If swallowed do not induce vomiting. Give large quantities of water and milk.
Seek medical attention.
Inhalation: Remove to fresh air. If breathing becomes difficult, contact a physician.
Eyes: Flush with plenty of water. Seek immediate medical attention.

SECTION V - Fire-fighting Measures.

The product is not considered to be a fire hazard. The information below are given for extinguishing a fire generated by other sources in the same area with this product.

Suitable extinguishing media: Water, Chemical Foam, Carbon Dioxide, or Dry Chemical.
Forbidden extinguishing media: Not determined.
Special firefighting measu: None. Wear self contained breathing apparatus.
Unusual fire and explosion hazards: Heat can cause polymerization with rapid release of energy.
Special protection equipment: Self Contained Breathing Apparatus if toxic fumes are generated.

SECTION VI - Accidental Release Measures

Personal precautions: Adopt some precautions of section VII.
Environmental precautions: Keep spilled material out of sewers.
Reclaiming methods: Scoop spilled material and dispose in an approved manner.

SECTION VII - Handling and Storage

Handling: Avoid unnecessary exposure. Use impervious gloves when handling.

Storage: Store at room temperature. Do not freeze.
 Containers: Keep in original containers. Keep tightly closed when not in use.
 Incompatibilities: Avoid the contact with reducing and oxidizing agents, peroxides.
 Other precautions: Use according to directions. Avoid contact with eyes, skin and soft tissue.

SECTION VIII - Exposure Controls / Personal Protection

General measures: Local Exhaust Ventilation: Good general ventilation should be sufficient to control airborne levels of vapors released by uncured material.
 Limits: TWA: Not determined; TLV: Not determined.
 Respiratory protection: Avoid prolonged or excessive breathing of vapors of uncured material.
 Eye protection: Safety glasses or goggles.
 Skin protection: Respect good personal hygiene practice. Avoid unnecessary exposure.
 Hands protection: Impervious gloves.
 Other equipment: Lab coat.

SECTION IX - Physical and Chemical Properties

Appearance:	Colored paste	Explosion limits:	Not determined
Odor	None	Water solubility:	Insoluble
Boiling point:	Not determined	Evaporation rate:	Not determined
Flash point	Not determined		

SECTION X - Stability and Reactivity

Stability: Stable if stored as directed.
 Conditions to avoid: Heat, light, aging and contamination.
 Materials to avoid: Reducing and oxidizing agents, peroxides and amines.
 Hazardous decomposition products: Oxides of Carbon.
 Hazardous polymerization products: Polymerization of bulk product may occur with release of heat.

SECTION XI - Toxicological Information

Ingestion: Uncured material may be harmful or fatal if swallowed.
 Eye contact: May cause irritation and damage if not removed promptly.
 Skin contact: Prolonged repeated exposure to uncured material may cause irritation or skin rash.
 Inhalation: Prolonged or excessive inhalation may cause respiratory tract irritation.

SECTION XII - Ecological Information

Avoid releasing the product into environment.

SECTION XIII - Disposal Considerations

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

SECTION XIV - Transport Information

DOT: Not regulated
 Not dangerous cargo.

SECTION XV - Regulatory Information

CLASSIFICATION IN ACCORDANCE WITH EEC DIRECTIVES.

Hazard Classification Symbol:	Xn	Harmful
	R22	Harmful if swallowed.
	R36/38	Irritating to eyes, respiratory system and skin.
	S36/37	Wear suitable protective clothing/gloves
Ingredients determining the label:	Blend of multifunctional methacrylates.	

SECTION XVI - Other Information

None.

CAUTION: PRODUCT FOR PROFESSIONAL USE ONLY.

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

MATERIAL SAFETY DATA SHEET

SECTION I - Product/ Company Identification

Product Trade Name:	<i>Alpha-Cem™ Dual Cure Luting Cement - Catalyst</i>		
Part (Item) Numbers:	Catalyst:	308-0200, 308-0201	
Manufacturer:	DENTAL TECHNOLOGIES, INC.		
Address:	6901 N. HAMLIN AVENUE		
City, State, Zip:	LINCOLNWOOD, IL. 60712 U.S.A.		
Emergency Telephone Number:	(800) 424-9300 / (703) 527-3887 (Chemtrec)		
Information Telephone Number:	(800) 835-0885 / (847) 677-5500		
Date Revised:	10-Apr-07	Rev.	000

SECTION II - Hazardous Ingredients/Identity Information

Hazardous Components:	CAS NO.	Percent	EC Haz Code	Risk Code
Blend of micro and sub-micron Silica	NA	60 - 70	Xi	
Blend of multifunctional methacrylates	NA	20 - 30	Xn	
Bisphenol diglycidylmethacrylate (Bis-GMA)	[1565-94-2]	20 - 30	Xn	
Peroxide catalyst	[10373-78-1]	< 1.0	O	
Stabilizer		< 1.0		

SECTION III - Hazards Identification

HAZARD CLASSIFICATION	Harmful
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SECTION IV - First Aid Measures

Skin:	Wash skin with soap and water. If irritation persists seek medical advice.
Ingestion:	If swallowed do not induce vomiting. Give large quantities of water and milk. Seek medical attention.
Inhalation:	Remove to fresh air. If breathing becomes difficult, contact a physician.
Eyes:	Flush with plenty of water. Seek immediate medical attention.

SECTION V - Fire-fighting Measures.

The product is not considered to be a fire hazard. The information below are given for extinguishing a fire generated by other sources in the same area with this product..

Suitable extinguishing media: Water, Chemical Foam, Carbon Dioxide, or Dry Chemical.
Forbidden extinguishing media: Not determined.
Special firefighting measu: None. Wear self contained breathing apparatus.
Unusual fire and explosion hazards: Heat can cause polymerization with rapid release of energy.
Special protection equipment: Self Contained Breathing Apparatus if toxic fumes are generated.

SECTION VI - Accidental Release Measures

Personal precautions: Adopt some precautions of section VII.
Environmental precautions: Keep spilled material out of sewers.
Reclaiming methods: Scoop spilled material and dispose in an approved manner.

SECTION VII - Handling and Storage

Handling: Avoid unnecessary exposure. Use impervious gloves when handling.
Storage: Store at room temperature. Do not freeze.
Containers: Keep in original containers. Keep tightly closed when not in use.
Incompatibilities: Avoid the contact with reducing and oxidizing agents and amines.
Other precautions: Use according to directions. Avoid contact with eyes, skin and soft tissue.

SECTION VIII - Exposure Controls / Personal Protection

General measures: Local Exhaust Ventilation: Good general ventilation should be sufficient to control airborne levels of vapors released by uncured material.
Limits: TWA: Not determined; TLV: Not determined.
Respiratory protection: Avoid prolonged or excessive breathing of vapors of uncured material.
Eye protection: Safety glasses or goggles.
Skin protection: Respect good personal hygiene practice. Avoid unnecessary exposure.
Hands protection: Impervious gloves.
Other equipment: Lab coat.

SECTION IX - Physical and Chemical Properties

Appearance:	Uncolored paste	Explosion limits:	Not determined
Odor	None	Water solubility:	Insoluble
Boiling point:	Not determined	Evaporation rate:	Not determined
Flash point	Not determined		

SECTION X - Stability and Reactivity

Stability: Stable if stored as directed.
Conditions to avoid: Heat, light, aging and contamination.
Materials to avoid: Reducing and oxidizing agents, peroxides and amines.
Hazardous decomposition products: Oxides of Carbon.
Hazardous polymerization products: Polymerization of bulk product may occur with rrelease of heat.

SECTION XI - Toxicological Information

Ingestion: Uncured material may be harmful or fatal if swallowed.
Eye contact: May cause irritation and damage if not removed promptly.
Skin contact: Prolonged repeated exposure to uncured material may cause irritation or skin rash.
Inhalation: Prolonged or excessive inhalation may cause respiratory tract irritation.

SECTION XII - Ecological Information

There is no specific information on the product. Use according to good working practice.
Avoid releasing the product into environment.

SECTION XIII - Disposal Considerations

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

SECTION XIV - Transport Information

DOT: Not regulated
Not dangerous cargo.

SECTION XV - Regulatory Information**CLASSIFICATION IN ACCORDANCE WITH EEC DIRECTIVES.**

Hazard Classification Symbol:	Xn	Harmful
	R22	Harmful if swallowed.
	R36/38	Irritating to eyes, respiratory system and skin.
	S36/37	Wear suitable protective clothing/gloves

Ingredients determining the label: Blend of multifunctional methacrylates.

SECTION XVI - Other Information

None.

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