

# MATERIAL SAFETY DATA SHEET

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**SECTION I - Product / Company Identification**

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Product Trade Name: *POLYCARBOXYLATE CEMENT - POWDER*  
Part (Item) Number: 306-0201-001  
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: 17-Nov-2006 Rev. No. 002

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**SECTION II - Hazardous Ingredients/Identity Information**

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<b>Hazardous Components:</b>	<b>Concentration</b>	<b>CAS NO.</b>	<b>HAZ CODE</b>	<b>SAFETY CODE</b>	<b>RISK CODE</b>
Zinc oxide		1314-13-2	N	S 22	R 50, R 53

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**SECTION III - Hazards Identification**

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HAZARD CLASSIFICATION N Dangerous to the environment

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**SECTION IV - First Aid Measures**

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Skin: Not an irritant  
Ingestion: Induce vomiting. 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 by an Ophthalmologist.

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**SECTION V - Fire-fighting Measures.**

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Suitable extinguishing media: NA  
Forbidden extinguishing media: None.  
Special firefighting measures: No special measures required

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**SECTION VI - Accidental Release Measures**

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Personal precautions: Follow some precautions of Section VII and personal protection in Section VIII  
Environmental precautions: Keep spilled material out of sewers.  
Reclaiming methods: Pick up spilled material mechanically

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**SECTION VII - Handling and Storage**

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Handling: No special measures required  
Storage: Room temperature.  
Incompatibilities: None  
Containers: Store in original containers.  
Other precautions: Use by trained professionals only and according to directions.

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**SECTION VIII - Exposure Controls / Personal Protection**

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General measures: Local exhaust or general ventilation that will reduce airborne dust to less than permissible exposure limits. Ventilation should not be directed to the work area to control airborne dust particulates. Local exhaust system is recommended over general ventilation system as it can control the emissions of the contaminants at its source, preventing dispersion into the general work area.

Exposure limits:		OSHA-PEL	ACGIH-TLV
Zinc Oxide	Total Dust	15 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>
	Respirable dust	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>

General protective measures: Follow the usual precautionary measures for handling chemicals and good personal hygiene practice.

Respiratory protection: Normally none required. If handling material for extended periods of time with dust conditions, wear NIOSH/MSHA-approved type respirator.

Eye protection: Safety glasses or goggles.

Hands protection: Normally none required. If handling material for extended periods of time use of impervious gloves is recommended.

Skin protection: Light weight protective clothing

Other equipment: Lab coat over clothing recommended.

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**SECTION IX - Physical and Chemical Properties**

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Appearance:	Powder	Explosion limits:	Not an explosion hazard
Color:	White to yellowish	Water solubility:	Insoluble
Odor:	None	Evaporation rate:	Not determined
Boiling point:	Not determined	Density:	Not determined
Flash point:	Not applicable		

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**SECTION X - Stability and Reactivity**

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Stability:	Stable if stored as directed.
Conditions to avoid:	None
Materials to avoid:	None known
Hazardous decomposition products:	None
Hazardous polymerization products:	Will not occur

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**SECTION XI - Toxicological Information**

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Ingestion:	Inhalation of dust may be an irritant to pre-existing respiratory conditions.
Eye contact:	Like any fine particulate matter, may cause mechanical irritation to eyes.
Skin contact:	Like any fine particulate matter, may cause mechanical irritation to skin.
Inhalation:	Inhalation of dust may be an irritant to pre-existing respiratory conditions.
Prolonged exposure:	Not established.

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**SECTION XII - Ecological Information**

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Toxic to fish and other aquatic organisms  
 Avoid releasing the product into environment, ground water and sewage system.

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**SECTION XIII - Disposal Considerations**

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Do not dispose together with household garbage. Do not allow product to reach sewage system.  
Dispose in accordance with Federal, State and local environmental regulations.

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**SECTION XIV - Transport Information**

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DOT Hazard Class: Not listed                      UN No.: No applicable information found

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**SECTION XV - Regulatory Information**

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CLASSIFICATION IN ACCORDANCE WITH EEC DIRECTIVES.

Hazard Classification Symbol:                      N                      Dangerous fo the environment

Risk statements:                                      R 50, R 53                      Toxic to aquatic organisms

Safety Statements:                                      S22                      Do not breath dust

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**SECTION XVI - Other Information**

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	NFPA Hazard Classification:	HMIS Hazard Classification:
Health	0	0
Flammability	0	0
Reactivity	0	0
Specific Hazard / PPE	N/A	PPE - Dust mask

NFPA - National Fire Protection Association

N/A - Not Applicable

N/E - Not Established

**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

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**SECTION I - Product / Company Identification**

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Product Trade Name:                      **POLYCARBOXYLATE CEMENT - LIQUID**  
Part (Item) Number:                      306-0101-001  
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: 27-Oct-2006 Rev. No. 002

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**SECTION II - Hazardous Ingredients/Identity Information**

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<b>Hazardous Components:</b>	<b>Concentration</b>	<b>CAS NO.</b>	<b>HAZARD COI</b>	<b>RISK CODE</b>
Polyacrylic acid		9003-01-4	<b>Xi</b>	<b>R36/38</b>

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**SECTION III - Hazards Identification**

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HAZARD CLASSIFICATION                      **Xi - Irritant**

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**SECTION IV - First Aid Measures**

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Skin:    Immediately wash the affected skin with plenty of water and soap while removing contaminated clothing and shoes. Rinse thoroughly. Wash clothing before reuse.

Ingestion:                                        Do not induce vomiting. Rinse mouth and drink plenty of water.  
    Seek medical help immediately.

Inhalation:                                        Supply fresh air,

Eyes:    Wash open eye with running water for 15 minutes. Seek immediate medical attention by an Ophthalmologist.

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**SECTION V - Fire-fighting Measures.**

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Suitable extinguishing media:                Carbon dioxide, water spray,  
Unsuitable extinguishing media:            N/A  
Unusual fire hazard                              During fire, irritating gasses from the decomposition of the polyacrylic acid may be present.

Special firefighting measures:                Wear full protective clothing and self-contained breathing apparatus.

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**SECTION VI - Accidental Release Measures**

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Personal precautions:                         See handling precautions of Section VII and personal protection in Section VIII

Environmental precautions:                    Keep spilled material out of sewers.

Reclaiming methods:                            Absorb with liquid absorbent material such as sand, sawdust, acid binders, diatomite, etc. Neutralize acid before disposal as hazardous waste.

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**SECTION VII - Handling and Storage**

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Handling:                                         Follow normal procedures for handling chemicals.

Storage:    Store at room temperature

Incompatibilities                                 Bases

Containers: Store in original containers, keep all containers tightly closed.  
 Other precautions: Use according to directions and by trained professionals only.

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**SECTION VIII - Exposure Controls / Personal Protection**

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Exposure limits:	OSHA-PEL		ACGIH-TLV	
	TWA	STEL	TWA	STEL
Polyacrylic acid	N/A	N/A	N/A	N/A

General ventilation: Local or general exhaust system is recommended.

General protective measures: Follow the usual precautionary measures for handling chemicals and exercise good personal hygiene practice. Avoid contact with skin and eyes.

Respiratory protection: None required in normal use.

Eye protection: Use safety glasses or goggles.

Hands protection: Use of non-permeable gloves is recommended

Skin protection: Light weight protective clothing

Other equipment: Lab coat over clothing is recommended.

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**SECTION IX - Physical and Chemical Properties**

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Appearance:	Clear viscous liquid	Explosion limits:	N/A
Color	Colorless	Water solubility:	Completely soluble
Odor	Slight acrylic odor	Evaporation rate:	N/E
Boiling point:	N/E	Specific gravity range:	1.10 - 1.30
Flash point	N/A		

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**SECTION X - Stability and Reactivity**

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Stability:	Stable if stored as directed.
Conditions to avoid	Heat and direct sunlight
Materials to avoid	Strong caustics, metals, strong oxidizing agents
Hazardous decomposition products:	Oxides of carbon
Hazardous polymerization products:	May auto polymerize

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**SECTION XI - Toxicological Information**

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Ingestion:	Irritant. May cause sore throat, abdominal pain, nausea, severe burns to mouth, throat, upper respiratory tract, and stomach.
Eye contact:	Corrosive. May cause redness, pain, blurred vision, eye burns.
Skin contact:	Irritant. May cause redness, pain, skin burns.
Inhalation:	Not an inhalation hazard under normal use.
Prolonged exposure:	No information found.

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**SECTION XII - Ecological Information**

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Data not available

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**SECTION XIII - Disposal Considerations**

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Do not allow undiluted product or large quantities to reach ground water, or sewage system.  
 Dike and cover spilled liquid with dirt, vermiculite or other inert absorbent. Neutralize before disposal.  
 Neutralized waste must be disposed of in an approved disposal facility.  
 Dispose containers and unused contents in accordance with Federal, State and local environmental regulations.

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**SECTION XIV - Transport Information**

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Land transport  
 DOT Hazard Class: Not regulated

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**SECTION XV - Regulatory Information**

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CLASSIFICATION IN ACCORDANCE WITH EEC DIRECTIVES.

Hazard Classification Symbol:	Xi	Irritant
Risk statements	R 22	Harmful if swallowed
Safety Statements	S 26	In case of contact with eyes, rinse immediately and seek
	S 37	medical help Wear suitable gloves

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**SECTION XVI - Other Information**

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	NFPA Hazard Classification	HMIS Hazard Classification
Health	1	1
Flammability	0	0
Reactivity	1	1
Specific Hazard / PPE		<b>PPE - gloves</b>

- NFPA - National Fire Protection Association
- HMIS - Hazardous materials Identification System
- N/A - Not Applicable
- N/E - Not Established

**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.